D 4

```
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFFFFFFFFFFFFFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEEEEEEEEEEE     DDD         DDD  FFFFFFFFFFFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEE              DDD         DDD  FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
EEEEEEEEEEEEEEE  DDDDDDDDDDDD     FFF
```

```
_$

Va
--
00
00
00
00
00
00
00
00
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
7F
```

```
                                                M 7
**FILE**ID**EDFASK








EEEEEEEEEE  DDDDDDDD    FFFFFFFFFF    AAAAAA    SSSSSSSS  KK      KK
EEEEEEEEEE  DDDDDDDD    FFFFFFFFFF    AAAAAA    SSSSSSSS  KK      KK
EE          DD      DD  FF          AA      AA  SS          KK      KK
EE          DD      DD  FF          AA      AA  SS          KK      KK
EE          DD      DD  FF          AA      AA  SS          KK    KK
EE          DD      DD  FF          AA      AA  SS          KK    KK
EEEEEEEE    DD      DD  FFFFFFFF    AA      AA    SSSSSS    KKKKKK
EEEEEEEE    DD      DD  FFFFFFFF    AA      AA    SSSSSS    KKKKKK
EE          DD      DD  FF          AAAAAAAAAA          SS  KK    KK
EE          DD      DD  FF          AAAAAAAAAA          SS  KK    KK
EE          DD      DD  FF          AA      AA          SS  KK      KK       ....
EE          DD      DD  FF          AA      AA          SS  KK      KK       ....
EEEEEEEEEE  DDDDDDDD    FF          AA      AA  SSSSSSSS    KK      KK       ....
EEEEEEEEEE  DDDDDDDD    FF          AA      AA  SSSSSSSS    KK      KK       ....


LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
      [ IDENT ('V04-000'),
{ ++
******************************************************************************
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FACILITY:       VAX/VMS EDF (EDIT/FDL) UTILITY

ABSTRACT:       This facility is used to create, modify, and optimize
                FDL specification files.

ENVIRONMENT:    NATIVE/USER MODE

AUTHOR:         Ken F. Henderson Jr.

CREATION DATE:  27-Mar-1981

MODIFIED BY:
                V03-018 JWT0191         Jim Teague              2 Aug 1984
                        Remove knowledge of ERASE_ON_DELETE.

                V03-017 RRB0017         Rowland R. Bradley      6 Mar 1984
                        Disallow ACLs - Commented out ACLs, will support
                        later.

                V03-016 RRB0009         Rowland R. Bradley     22 Jan 1984
                        Enhancement for display of # buckets in index, # of
                        pages to cache index, and average # key examinations.

                V03-015 RRB0007         Rowland R. Bradley     19 Jan 1984
                        Fix set analysis file to update the correct data
                        structure.

                V03-014 KFH0014         Ken Henderson          10 Sep 1983
                        Support for named UICs

                V03-013 KFH0013         Ken Henderson           8 Aug 1983
                        Bugfixing for FT1.
                        Changes for seperate compilation.

                V03-012 KFH0012         Ken Henderson          27 Jul 1983
                        Fixed calculation of record and bucket
                        overheads in blocks_in_bucket question.
                        Added DEFERRED_WRITE.

                V03-011 KFH0011         Ken Henderson          27 May 1983
                        Modified PRE_PROCESS for KEY_COMP_WANTED,
                        REC_COMP_WANTED, IDX_COMP_WANTED to
                        force not wanted if not String datatype.
                        Also force REC_COMP_WANTED to false if
                        not Key 0.

                V03-010 KFH0010         Ken Henderson          26 Apr 1983
                        Modified PRE_PROCESS for
                        EDF$K_NUMBER_KEYS, EDF$K_SURFACE_OPTION.
                        Add ASK_KEY_SIZE, ASK_KEY_POSITION.
                        Add ADD_KEY, DELETE_KEY to SCRIPT_OPTION.
                        Removed EDF$K_GLOBAL_COUNT question.

                V03-009 KFH0009         Ken Henderson          14 Apr 1983
                        Changed max bucketsize to 63 from 65.
                        Added SET_FUNCTION, GRANULARITY, PROMPTING,
                        JOURNAL_ENABLED, and RESPONSES. Modified
                        questions about DUPLICATES, COMPRESSION_WANTED.

                V03-008 KFH0008         Ken Henderson           7 Mar 1983
                        Changed max bucketsize to 65 from 127.

                V03-007 KFH0007         Ken Henderson          20 Jan 1983
                        Fixed REGIS support in DESIGN_CYCLE
                        section of PRE_PROCESS. Also removed
                        references to DASH. Also added
                        Depthpoint displays to bucketsize
                        question.

                V03-006 KFH0006         Ken Henderson          22 Nov 1982
                        Added support for additional FILE and
                        CONNECT attributes.

                V03-005 KFH0005         Ken Henderson          8 Sept 1982
                        Modifed almost all variables to fit into
                        new database scheme of arrays. Also added
                        QUERY routine to process the QTAB table-
                        driven Q+As. Also added support routines
                        for QUERY. Also replaced almost ALL the
                        "ASK_xxx" routines with QTAB/QUERY.

                V03-004 KFH0004         Ken Henderson          19 April 1982
                        Modified ASK_BUCKET to correct its
                        handling of alternate keys.

                V03-003 KFH0003         Ken Henderson          24-Mar-1982
```

```
                        Modified ASK_TEST_SECONDARY_VALUE to fix
                        QAR 833

                V03-002 KFH0002         Ken Henderson           23-Mar-1982
                        Modified several 'ASK_' routines to fix
                        FT2 QARs 745,746

                V03-001 KFH0001         Ken Henderson           17-Mar-1982
                        Modified several 'ASK_' routines to fix
                        FT2 QARs 509,449,574,575

-- }
```

```
ENVIRONMENT ('LIB$:EDFASK'),

INHERIT (

'SYS$LIBRARY:STARLET',
'SHRLIB$:FDLPARDEF',
'LIB$:EDFSDLMSG',
'LIB$:EDFSTRUCT',
'LIB$:EDFCONST',
'LIB$:EDFTYPE',
'LIB$:EDFVAR',
'LIB$:EDFEXTERN',
'LIB$:EDFCHF',
'LIB$:EDFUTIL'

)]

MODULE EDFASK (INPUT,OUTPUT);
```

```
{ ++

WRITE_HELP -- Routine to output per question help text.

This procedure cases on qtab-offset to output the help text.

CALLING SEQUENCE:

WRITE_HELP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE WRITE_HELP;

BEGIN

    CASE QTAB_OFFSET OF

        EDF$K_DESIGN_CYCLE :

            WRITELN (SHIFT,'Type the 2 letter mnemonic of the selected option.');

        EDF$K_KEY_POSITION :

            WRITELN (SHIFT,
            'This is the starting byte of the key or key segment.');

        EDF$K_KEY_DIST :

            WRITELN (
            SHIFT,'This refers to records that are added to the',CRLF_SHIFT,
            'file after it is initially loaded.');

        EDF$K_KEY_CHANGES :

            WRITELN (SHIFT,'This enables or disables the RMS option.');

        EDF$K_KEY_DUPS :

            WRITELN (SHIFT,'This enables or disables the RMS option.');

        EDF$K_SEGMENTED :

            WRITELN (SHIFT,'Each string key may consist of up to 8 parts.');

        EDF$K_GLOBAL_WANTED :

            WRITELN (
            SHIFT,'These usually increase the speed of file sharing,',
            CRLF_SHIFT,'at the expense of using more physical memory.');

        EDF$K_RESPONSES :

            WRITELN (
            SHIFT,'Automatic means the default answers will be used without',
            CRLF_SHIFT,'waiting for confirmation.');

        EDF$K_PROMPTING :

            WRITELN (SHIFT,'This controls whether full menus are displayed.');

        EDF$K_NUMBER_RECORDS :

            WRITELN (SHIFT,'This will determine the allocation of the file.');

        EDF$K_ASCENDING_LOAD :

            WRITELN (
            SHIFT,'This refers to the order of the initial records loaded.');
```

```

EDF$K_INITIAL_COUNT,
EDF$K_INITIAL_COUNT_LOW,
EDF$K_INITIAL_COUNT_HIGH :

     WRITELN (SHIFT,
     'These are the records initially loaded into the file.',CRLF_SHIFT,
     'If the file will have no ''Load'' operation, specify ''0''.');

EDF$K_ADDED_COUNT,
EDF$K_ADDED_COUNT_LOW,
EDF$K_ADDED_COUNT_HIGH :

     WRITELN (SHIFT,
     'These are the records added after the initial file load.');

EDF$K_BLOCK_SPAN :

     WRITELN (
     SHIFT,'If no, each record plus overhead must fit in a disk block.',
     CRLF_SHIFT,'Also, some space may be wasted at the end of blocks.');

EDF$K_KEY_LOW,
EDF$K_KEY_HIGH,
EDF$K_KEY_SIZE :

     WRITELN (SHIFT,'This is the length of the key (segment) in bytes.',
     CRLF_SHIFT,
     '(With multi-segment keys, answer ''0'' after the last segment.)');

EDF$K_PROLOGUE_VERSION :

     WRITELN (SHIFT,
     'This refers to the structure level of the data file.',
     CRLF_SHIFT,
     'A value of 0 lets RMS choose an appropriate prolog.');

EDF$K_KEY_COMP_WANTED,
EDF$K_REC_COMP_WANTED,
EDF$K_IDX_COMP_WANTED :

     WRITELN (SHIFT,
     'If an Analyze/RMS indicates little compression is acheived',
     CRLF_SHIFT,
     'then answer No, otherwise it is usually better to answer Yes.');

EDF$K_CLUSTER_SIZE :

     WRITELN (SHIFT,
     'SHOW DEVICE/FULL can be used to determine this value.');

EDF$K_ASCENDING_ADDED :

     WRITELN (SHIFT,
     'This refers to the orderring of additional records.');

EDF$K_BLOCKS_IN_BUCKET :
```

```
            WRITELN (SHIFT,
            'Legal range is 1 to 63 blocks per bucket, and buckets must',
            CRLF_SHIFT,
            'be large enough to hold at least 1 record plus overhead.');

        EDF$K_BUCKET_WEIGHT :

            WRITELN (SHIFT,
            'Smaller_Buffers: less memory and RMS processing used',
            CRLF_SHIFT,
            'Flatter_Files:   fewer actual disk accesses needed');

        EDF$K_LOAD_METHOD :

            IF WAIT_HELP THEN

                WRITELN (SHIFT,
                'Legal values: Fast_Convert, NoFast_Convert, RMS_Puts')

            ELSE

                WRITELN (SHIFT,
                'Fast_Convert:   using the VAX-11 Convert/Fast_Load option',
                CRLF_SHIFT,
                'NoFast_Convert: using the VAX-11 Convert/NoFast_Load option',
                CRLF_SHIFT,
                'RMS_Puts:       writing to a file from a High Level Language');

        EDF$K_FILL_LOW,
        EDF$K_FILL_HIGH,
        EDF$K_DESIRED_FILL :

            WRITELN (SHIFT,'This is the initial file loading fill factor.');

        EDF$K_KEY_TYPE :

        BEGIN

            IF WAIT_HELP THEN

                WRITELN (SHIFT,
                'Legal types: Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal String')

            ELSE

                WRITELN (SHIFT,
                'Use',
                CRLF_SHIFT,
                '''Binx'' types for unsigned binary keys of 2, 4 or 8 bytes,',
                CRLF_SHIFT,
                '''Intx'' types for signed binary key of 2, 4 or 8 bytes,',
                CRLF_SHIFT,
                '''Decimal'' type for packed decimal key of 1 to 16 bytes,',
                CRLF_SHIFT,
                '''String'' type for character string key of 1 to 255 bytes.');
            END;    { EDF$K_KEY_TYPE }

            EDF$K_RECORD_FORMAT :

                WRITELN (
                SHIFT,'Indexed files are only Fixed or Variable.',CRLF_SHIFT,
                'Stream format (Seq only) is Stream, Stream_CR, or Stream_LF.');

            EDF$K_ACTIVE_KEY :

                WRITELN (SHIFT,'Select an already defined key.');

            EDF$K_NUMBER_KEYS :

                WRITELN (SHIFT,'An Indexed file can have from 1 to 255 keys.');

            EDF$K_CONTROL_SIZE :

                WRITELN (SHIFT,'This refers to the Fixed portion of the record.');

            EDF$K_SIZE_LOW,
            EDF$K_SIZE_HIGH,
            EDF$K_MEAN_RECORD_SIZE :

                WRITELN (SHIFT,'This refers to the records in the data file.');

            EDF$K_MAX_RECORD_SIZE :

            BEGIN

                WRITELN (SHIFT,
                'This sets the longest record that can be stored in the file.');

                IF IDATA[EDF$K_SCRIPT_OPTION] <> EDF$K_REL_DESIGN_FDL THEN

                    WRITELN (SHIFT,
                    'A maximum of 0 will set no explicit maximum.');

            END;    { EDF$K_MAX_RECORD_SIZE }

            EDF$K_CARR_CTRL :

                WRITELN (SHIFT,'This sets the Record attributes of the file.');

        OTHERWISE

            { NULL-STATEMENT } ;

        END;        { CASE }

        IF (
        (WAIT_HELP)
        AND
        (NOT AUTO_TUNE)
        ) THEN

            LIB$WAIT (3.0);
        END;    { WRITE_HELP }
```

```
{ ++

WRITE_QUESTION -- Routine to output the question text.

This procedure cases on the qtab-offset and outputs the correct string.

CALLING SEQUENCE:

WRITE_QUESTION;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE WRITE_QUESTION;

BEGIN

    CASE QTAB_OFFSET OF

        EDF$K_INITIAL_COUNT_LOW :

            WRITE (SHIFT,
            'Low bound: Initial Load of Recs    (0-1Giga)[0]    : ');

        EDF$K_INITIAL_COUNT_HIGH :

        BEGIN

            WRITE (SHIFT,'High bound: Initial Load of Recs(',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
            '-1Giga)[',DEF:NUM_LEN(DEF),']');

            IF (NUM_LEN(IDATA[EDF$K_Y_LOW])+NUM_LEN(DEF)) <= 3 THEN

                WRITE ('        : ')

            ELSE

                WRITE (' : ');

        END;    { EDF$K_INITIAL_COUNT_HIGH }

        EDF$K_ADDED_COUNT_LOW :

        BEGIN

              WRITE (SHIFT,
             'Low bound: Number of Added Recs    (0-1Giga)[0]    : ');

        END;    { EDF$K_ADDED_COUNT_LOW }

        EDF$K_ADDED_COUNT_HIGH :

        BEGIN

            WRITE (SHIFT,'High bound: Number of Added Recs(',
            IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
            '-1Giga)[',DEF:NUM_LEN(DEF),']');

            IF (NUM_LEN(IDATA[EDF$K_Y_LOW])+NUM_LEN(DEF)) <= 3 THEN

                WRITE ('        : ')

            ELSE

                WRITE (' : ');

        END;    { EDF$K_ADDED_COUNT_HIGH }

        EDF$K_KEY_LOW :
```

```
        WRITE (SHIFT,'Low bound: Key',
        IDATA[EDF$K_ACTIVE_KEY]:3,
        ' Length     (1-',
        MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')[1]     : ');

    EDF$K_KEY_HIGH :

        WRITE (SHIFT,'High bound: Key',
        IDATA[EDF$K_ACTIVE_KEY]:3,' Length  (',
        IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),
        '-',MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')[',
        MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),']        : ');

    EDF$K_SIZE_LOW :

    BEGIN

        WRITE (SHIFT,'Low bound: Record Size                    (1-',
        CUR_MAX_REC:5,')[1] : ');

    END;    { EDF$K_SIZE_LOW }

    EDF$K_SIZE_HIGH :

    BEGIN

        WRITE (SHIFT,'High bound: Record Size                   (',
        IDATA[EDF$K_Y_LOW]:NUM_LEN(IDATA[EDF$K_Y_LOW]),'-',
        CUR_MAX_REC:5,')[1000]');

        IF NUM_LEN(IDATA[EDF$K_Y_LOW]) < 3 THEN

            WRITE ('         : ')

        ELSE

            WRITE (' : ');

    END;    { EDF$K_SIZE_HIGH }

    EDF$K_FILL_LOW :

        WRITE (SHIFT,'Low bound: Key',
        IDATA[EDF$K_ACTIVE_KEY]:3,
        ' Init Fill %        (50-100)[50]     : ');

    EDF$K_FILL_HIGH :

        WRITE (SHIFT,'High bound: Key',
        IDATA[EDF$K_ACTIVE_KEY]:3,
        ' Init Fill %        (50-100)[100]    : ');

    EDF$K_SCRIPT_OPTION :

    BEGIN
```

```
        CLEAR (IF_FULL_PROMPT);

        { +
        Show the menu only if we're being verbose.
        - }
        IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

        BEGIN

            { +
            Put the title out in reverse video.
            - }
            WRITELN (
            SHIFT,
            '                ',
            ANSI_REVERSE,
            ' Script Title Selection ',
            ANSI_RESET,
            CRLF,
            CRLF_SHIFT,
'Add_Key            modeling and addition of a new index''s parameters',
            CRLF_SHIFT,
'Delete_Key removal of the highest index''s parameters',
            CRLF_SHIFT,
'Indexed            modeling of parameters for an entire Indexed file',
            CRLF_SHIFT,
'Optimize   tuning of all indices'' parameters using file statistics',
            CRLF_SHIFT,
'Relative   selection of parameters for a Relative file',
            CRLF_SHIFT,
'Sequential selection of parameters for a Sequential file',
            CRLF_SHIFT,
'Touchup            remodeling of parameters for a particular index',
            CRLF
            );

        END

        ELSE

            WRITELN (SHIFT,
            '(Add_Key Delete_Key Indexed Optimize',
            CRLF_SHIFT,
            ' Relative Sequential Touchup)');

        { +
        Pop the question.
        - }
        WRITE (SHIFT,'Editing Script Title          (Keyword)',
        ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');

    END;    { EDF$K_SCRIPT_OPTION }

    EDF$K_RETURN :

        WRITE (CRLF_SHIFT,ANSI_REVERSE,CONTINUE_TEXT,
        ANSI_RESET,'               ');
```

```

EDF$K_DESIGN_CYCLE :

    WRITE (SHIFT,'(Type "FD" to Finish Design)',
    CRLF_SHIFT,
    'Which File Parameter        (Mnemonic)[refresh]      : ');

EDF$K_CURRENT_FUNCTION :

BEGIN

    CLEAR (SCREEN);

    { +
    Only show the menu if we're being verbose.
    - }
    IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

    BEGIN

        { +
        Show the header in reverse video, and then the
        rest of the menu.
        - }
        WRITELN (
        SHIFT,
        '                 ',
        ANSI_REVERSE,
        EDF_HEADER,
        ANSI_RESET,
        CRLF,
        CRLF_SHIFT,
    'Add         to insert one or more lines into the FDL definition',
        CRLF_SHIFT,
    'Delete      to remove one or more lines from the FDL definition',
        CRLF_SHIFT,
    'Exit        to leave the FDL Editor after creating the FDL file',
        CRLF_SHIFT,
    'Help        to obtain information about the FDL Editor',
        CRLF_SHIFT,
    'Invoke      to initiate a script of related questions',
        CRLF_SHIFT,
    'Modify      to change existing line(s) in the FDL definition',
        CRLF_SHIFT,
    'Quit        to abort the FDL Editor with no FDL file creation',
        CRLF_SHIFT,
    'Set         to specify FDL Editor characteristics',
        CRLF_SHIFT,
    'View        to display the current FDL Definition',
        CRLF);

    END { IF TRUE FULL_PROMPT OR TEMP_FULL_PROMPT }

    ELSE

        WRITELN (SHIFT,
        '(Add Delete Exit Help Invoke Modify Quit Set View)');

    { +
    Pop the question.
    - }
    WRITE (SHIFT,
    'Main Editor Function               (Keyword)[Help] : ');

END;    { EDF$K_CURRENT_FUNCTION }


EDF$K_RESPONSES :

BEGIN

    WRITE (SHIFT,'(Automatic Manual)',CRLF_SHIFT,
    'Default responses in scripts       (Keyword)[Auto] : ');

END;

EDF$K_PROMPTING :

BEGIN

    WRITELN (SHIFT,'(Brief Full)');
    WRITE (SHIFT,
    'Prompting level for menus  (Keyword)[Full] : ');

END;

EDF$K_KEY_POSITION :

BEGIN

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Position          ');

    IF BDATA[EDF$K_SEGMENTED] THEN

        WRITE ('SEG',SEGMENT_NUMBER:1);

    WRITE ('    (0-',
    MAX_KEY_POSITION:NUM_LEN(MAX_KEY_POSITION),')[0]     : ');

END;    { EDF$K_KEY_POSITION }

EDF$K_KEY_DIST :

BEGIN

    WRITELN (SHIFT,
    'Will Added Records be Distributed Evenly over the');

    IF NOT OPTIMIZING THEN

        WRITE (SHIFT,'Initial')

    ELSE
```

```
        WRITE (SHIFT,'Reloaded');

    WRITE (' Range of Pri Key Values');

    IF NOT OPTIMIZING THEN

        WRITE (TAB);

    WRITE ('(Yes/No)[No]          : ');

END;    { EDF$K_KEY_DIST }

EDF$K_KEY_CHANGES :

      WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
      ' Changes allowed             (Yes/No)[Yes]    : ');

EDF$K_KEY_DUPS :

BEGIN

      WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
      ' Duplicates allowed          (Yes/No)[');

    { +
    The default for the primary key is NO, for alternates YES.
    - }
    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        WRITE ('No]      : ')

    ELSE

        WRITE ('Yes]     : ');

END;    { EDF$K_KEY_DUPS }

EDF$K_SEGMENTED :

    WRITE (SHIFT,
    'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Segmentation desired       (Yes/No)[No]     : ');

EDF$K_GLOBAL_WANTED :

    WRITE (SHIFT,
    'Global Buffers desired                (Yes/No)[No]     : ');

EDF$K_NUMBER_RECORDS :

    WRITE (SHIFT,'File Capacity in Records      (0-1Giga)',
    ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');

EDF$K_INITIAL_COUNT :

BEGIN
```

```
    IF NOT OPTIMIZING THEN

        WRITELN (SHIFT,
        'Number of Records that will be Initially Loaded')

    ELSE

        WRITELN (SHIFT,'Number of Records that will be Reloaded');

    WRITE (SHIFT,'into the File','                 (0-1Giga)');

    IF NOT OPTIMIZING THEN

        WRITE (ANSI_REVERSE,'[-]',ANSI_RESET,'  : ')

    ELSE

    BEGIN

        WRITE ('[',OLD_COUNT:NUM_LEN(OLD_COUNT),']');

        IF NUM_LEN(OLD_COUNT) > 4 THEN

            WRITE (' : ')

        ELSE

            WRITE ('     : ');

    END;

END;    { EDF$K_INITIAL_COUNT }

EDF$K_LOAD_METHOD :

BEGIN

    WRITELN (SHIFT,'(Fast_Convert NoFast_Convert RMS_Puts)');

    IF NOT OPTIMIZING THEN

        WRITE (SHIFT,'Initial File Load Method  ')

    ELSE

        WRITE (SHIFT,'File Reloading Method             ');

    WRITE ('(Keyword)[Fast]     : ');

END;    { EDF$K_LOAD_METHOD }

EDF$K_ASCENDING_LOAD :

BEGIN

    IF NOT OPTIMIZING THEN
```

```
        WRITELN (SHIFT,
        'Will Initial Records Typically be Loaded in Order')

    ELSE

        WRITELN (SHIFT,
        'Will the Records be Reloaded Typically in Order');

    WRITE (SHIFT,
    'by Ascending Primary Key   (Yes/No)[No]    : ');

END;    { EDF$K_ASCENDING_LOAD }

EDF$K_ADDED_COUNT :

BEGIN

    WRITELN (SHIFT,
    'Number of Additional Records to be Added After');

    IF NOT OPTIMIZING THEN

        WRITE (SHIFT,'the Initial File Load')

    ELSE

        WRITE (SHIFT,'the Reloading the File');

    WRITE ('            (0-1Giga)[0]    : ');

END;    { EDF$K_ADDED_COUNT }

EDF$K_KEY_COMP_WANTED :

    WRITE (SHIFT,
    'Data Key Compression desired       (Yes/No)[Yes]   : ');

EDF$K_REC_COMP_WANTED :

    WRITE (SHIFT,
    'Data Record Compression desired    (Yes/No)[Yes]   : ');

EDF$K_IDX_COMP_WANTED :

    WRITE (SHIFT,
    'Index Compression desired  (Yes/No)[Yes]   : ');

EDF$K_CLUSTER_SIZE :

    WRITE (SHIFT,
    'Target disk volume Cluster Size    (1-1Giga)[3]    : ');

EDF$K_BLOCK_SPAN :

    WRITE (SHIFT,
    'Records can span disk blocks       (Yes/No)[Yes]   : ');
```

```

EDF$K_ASCENDING_ADDED :

    WRITE (SHIFT,
    'Will Additional Records Typically be Added in',CRLF_SHIFT,
    'Order by Ascending Primary Key      (Yes/No)[No]     : ');

EDF$K_PROLOGUE_VERSION :

    WRITE (SHIFT,
    'File Prolog Version                 (0-3)[3]         : ');

EDF$K_KEY_SIZE :

BEGIN

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Length              ');

    IF BDATA[EDF$K_SEGMENTED] THEN

        WRITE ('SEG',SEGMENT_NUMBER:1);

    WRITE ('    (',MIN_KEY_SIZE:NUM_LEN(MIN_KEY_SIZE),'-',
    MAX_KEY_SIZE:NUM_LEN(MAX_KEY_SIZE),')',
    ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');

END;    { EDF$K_KEY_SIZE }

EDF$K_BLOCKS_IN_BUCKET :

BEGIN

    WRITE (SHIFT,'Emphasis Used In Defining Default:    ( ');

    IF IDATA[EDF$K_BUCKET_WEIGHT] = EDF$K_SMALLER_BUFFERS THEN

        WRITELN ('   Smaller_buffers )')

    ELSE

        WRITELN ('   Flatter_files   )');

    WRITELN (SHIFT,'Suggested Bucket Sizes:                  ( ',
    BREAKPOINT_LEFT:6,
    BREAKPOINT_MID:6,BREAKPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Number of Levels in Index:           ( ',
    DEPTHPOINT_LEFT:6,
    DEPTHPOINT_MID:6,DEPTHPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Number of Buckets in Index:          ( ',
    NUMPOINT_LEFT:6,
    NUMPOINT_MID:6,NUMPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Pages Required to Cache Index:           ( ',
    PAGEPOINT_LEFT:6,
    PAGEPOINT_MID:6,PAGEPOINT_RIGHT:6,' )');

    WRITELN (SHIFT,'Processing Used to Search Index:    ( ',
    EXAMPOINT_LEFT:6,
    EXAMPOINT_MID:6,EXAMPOINT_RIGHT:6,' )');

    WRITE (CRLF_SHIFT,'Key',
    IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Bucket Size               (',MIN_BUCKET:NUM_LEN(MIN_BUCKET),
    '-63)[',
    QTAB[QTAB_OFFSET].DEFAULT:NUM_LEN(QTAB[QTAB_OFFSET].DEFAULT),
    ']  : ');

END;    { EDF$K_BLOCKS_IN_BUCKET }

EDF$K_BUCKET_WEIGHT :

BEGIN

    WRITE (SHIFT,'(Smaller_Buffers Flatter_Files)',
    CRLF_SHIFT,'Emphasis for Default Bucket_Size(Keyword)[');

    IF QTAB[QTAB_OFFSET].DEFAULT = EDF$K_FLATTER_FILES THEN

        WRITE ('Flat]   : ')

    ELSE

        WRITE ('Small] : ');

END;    { EDF$K_BUCKET_WEIGHT }

EDF$K_DESIRED_FILL :

    WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Load Fill Percent (50-100)[100]   : ');

EDF$K_CONFIRM :

    WRITE (SHIFT,
    'Replace this existing secondary    (Yes/No)[No]    : ');

EDF$K_DATA_FILE_NAME :

    WRITE (SHIFT,
    'Data File file-spec                    (1-126 chars)[null]',
    CRLF_SHIFT,': ');

EDF$K_ANALYSIS :

    WRITE (SHIFT,'Analysis File file-spec       (1-126 chars)[null]',
    CRLF_SHIFT,': ');

EDF$K_OUTPUT :

    WRITE (SHIFT,
    'Output File file-spec                  (1-126 chars)[null]',
          CRLF_SHIFT,': ');

     EDF$K_FDL_TITLE :

          WRITE (SHIFT,
          'Text for FDL Title Section (1-126 chars)[null]',
          CRLF_SHIFT,': ');

     EDF$K_KEY_NAME :

          WRITE (SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
          ' Name                            (1-32 chars)[null]',CRLF_SHIFT,
          ': ');

     EDF$K_KEY_TYPE :

     BEGIN

          WRITE (SHIFT,'(Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal String)',
          CRLF_SHIFT,'Key',IDATA[EDF$K_ACTIVE_KEY]:3,
          ' Data Type                 (Keyword)[Str]  : ');

     END;     { EDF$K_KEY_TYPE }

     EDF$K_ACTIVE_KEY :

          WRITE (SHIFT,'Key of Reference                  (',
          LOW_KEY:NUM_LEN(LOW_KEY),'-',HIGH_KEY:NUM_LEN(HIGH_KEY)
          ,')[0]          : ');

     EDF$K_NUMBER_KEYS :

     BEGIN

          WRITE (SHIFT,'Number of Keys to Define        (1-255)[',
          QTAB[QTAB_OFFSET].DEFAULT:NUM_LEN(QTAB[QTAB_OFFSET].DEFAULT),
          ']  : ');

     END;

     EDF$K_CARR_CTRL :

     BEGIN

          WRITE (SHIFT,'(Carriage_Return FORTRAN None Print)',
          CRLF_SHIFT,'Carriage Control                    (Keyword)[Carr] : ');

     END;     { EDF$K_CARR_CTRL }

     EDF$K_RECORD_FORMAT :

     BEGIN

          CASE IDATA[EDF$K_SCRIPT_OPTION] OF

               EDF$K_ADD_KEY_FDL,
               EDF$K_DELETE_KEY_FDL,
                EDF$K_REDESIGN_FDL,
                EDF$K_OPTIMIZE_FDL,
                EDF$K_IDX_DESIGN_FDL : WRITELN (SHIFT,'(Fixed variable)');
                EDF$K_REL_DESIGN_FDL : WRITELN (SHIFT,'(Fixed Variable VFC)');
                EDF$K_SEQ_DESIGN_FDL : WRITELN (SHIFT,
                    '(Fixed Stream _CR _LF Undefined Variable VFC)');

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

            WRITE (SHIFT,
            'Record Format                      (Keyword)[Var]  : ');

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_CONTROL_SIZE :

            WRITE (SHIFT,'Control Field Size            (1-',
            CUR_MAX_FIXED:NUM_LEN(CUR_MAX_FIXED),')[2]  : ');

        EDF$K_MEAN_RECORD_SIZE :

        BEGIN

            WRITE (SHIFT);

            IF VARIABLE_RECORDS THEN

                WRITE ('Mean ');

            WRITE ('Record Size');

            IF IDATA[EDF$K_RECORD_FORMAT] = FDL$C_VFC THEN

                WRITE (' w/fix');

            IF NOT VARIABLE_RECORDS THEN

                WRITE (TAB);

            WRITE ('            (1-',
            CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),')',
            ANSI_REVERSE,'[=]',ANSI_RESET,'      : ');

        END;    { EDF$K_MEAN_RECORD_SIZE }

        EDF$K_SURFACE_OPTION :

        BEGIN

            { +
            See which surface.
            - }
            CLEAR (IF_FULL_PROMPT);

            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

            BEGIN

                WRITELN (
                SHIFT,
                '                ',
                ANSI_REVERSE,
                ' Key',IDATA[EDF$K_ACTIVE_KEY]:3,' Graph Type Selection ',
                ANSI_RESET,
                CRLF,
                CRLF_SHIFT,
     'Line      Bucket Size vs Index Depth      as a 2 dimensional plot',
                CRLF_SHIFT,
     'Fill      Bucket Size vs     Load Fill Percent     vs Index Depth',
                CRLF_SHIFT,
     'Key       Bucket Size vs         Key Length        vs Index Depth'
                );

                IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

                BEGIN

WRITELN (SHIFT,
'Record Bucket Size vs        Record Size        vs Index Depth',
CRLF_SHIFT,
'Init   Bucket Size vs Initial Load Record Count vs Index Depth',
CRLF_SHIFT,
'Add    Bucket Size vs  Additional Record Count  vs Index Depth');

                END;

                WRITELN;

            END

            ELSE

            BEGIN

                WRITE (SHIFT,'(Line Fill Key');

                IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

                    WRITE (' Record Init Add)')

                ELSE

                    WRITE (')');

                WRITELN;

            END;          { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

            { +
            Always ask the question, even for brief prompting.
            - }
            WRITE (SHIFT,'Graph type to display          (Keyword)[');

            CASE QTAB[QTAB_OFFSET].DEFAULT OF

                EDF$K_LINE_SURFACE :     WRITE ('Line]    : ');
                EDF$K_FILL_SURFACE :     WRITE ('Fill]    : ');
                EDF$K_KEY_SURFACE :      WRITE ('Key]     : ');
                EDF$K_SIZE_SURFACE :     WRITE ('Rec]     : ');
                EDF$K_INIT_SURFACE :     WRITE ('Init]    : ');
                EDF$K_ADDED_SURFACE :    WRITE ('Add]     : ');

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

        END;    { EDF$K_SURFACE_OPTION }

        EDF$K_GRANULARITY :

        BEGIN

            { +
            See what level of granularity.
            - }
            CLEAR (IF_FULL_PROMPT);

            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

            BEGIN

                WRITELN (
                SHIFT,
                '                  ',
                ANSI_REVERSE,
                ' Area Granularity Selection ',
                ANSI_RESET);

                IF DEC_CRT THEN

                BEGIN

                WRITELN (CRLF,LOW_SHIFT,
'   '(27)')0'(14)'lqqqqqqqqqqqqqk'(15)'      '(14)'lqqqqqqqqqqqqqk'(15)'      '(14)'lqqqqqqqqqqqqqk'(15)'      '(14)'lq
                CRLF,LOW_SHIFT,
' 0 '(14)'x'(15)' Key 0 Data  '(14)'x'(15)'   0 '(14)'x'(15)' Key 0 Data  '(14)'x'(15)'   0 '(14)'x'(15)' Key 0 Data
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'             '(14)'x'(15)'     '(14)'tqqqqqqqqqqqqqu'(15)'     '(14)'tqqqqqqqqqqqqqu'(15)'      '(14
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key 0 Index '(14)'x'(15)'   1 '(14)'x'(15)' Key 0 Index '(14)'x'(15)'   1 '(14)'x'(15)' Key 0 Inde
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'             '(14)'x'(15)'     '(14)'x'(15)'             '(14)'x'(15)'     '(14)'tqqqqqqqqqqqqqu'(1
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key n Data  '(14)'x'(15)'     '(14)'x'(15)' Key n Data  '(14)'x'(15)'   2 '(14)'x'(15)' Key n Data
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)'             '(14)'x'(15)'     '(14)'x'(15)'             '(14)'x'(15)'     '(14)'x'(15)'
                CRLF,LOW_SHIFT,
'   '(14)'x'(15)' Key n Index '(14)'x'(15)'     '(14)'x'(15)' Key n Index '(14)'x'(15)'     '(14)'x'(15)' Key n Inde
                CRLF,LOW_SHIFT,
'   '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqqqqqqqj'(15)'     '(14)'mqqqqqqqq
                CRLF,LOW_SHIFT,
'       One (1)             Two (2)            Three (3)           Four (4)',
                CRLF)

                END      { IF DEC_CRT }

                ELSE

                BEGIN

                WRITELN (CRLF,LOW_SHIFT,
'   +-------------+     +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
' 0 ¦ Key 0 Data  ¦   0 ¦ Key 0 Data  ¦   0 ¦ Key 0 Data  ¦   0 ¦ Key 0 Data  ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦     +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key 0 Index ¦   1 ¦ Key 0 Index ¦   1 ¦ Key 0 Index ¦   1 ¦ Key 0 Index ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦     ¦             ¦     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key n Data  ¦     ¦ Key n Data  ¦   2 ¦ Key n Data  ¦   2 ¦ Key n Data  ¦',
                CRLF,LOW_SHIFT,
'   ¦             ¦     ¦             ¦     ¦             ¦     +-------------+',
                CRLF,LOW_SHIFT,
'   ¦ Key n Index ¦     ¦ Key n Index ¦     ¦ Key n Index ¦   3 ¦ Key n Index ¦',
                CRLF,LOW_SHIFT,
'   +-------------+     +-------------+     +-------------+     +-------------+',
                CRLF,LOW_SHIFT,
'       One (1)             Two (2)            Three (3)           Four (4)',
                CRLF);

                END;     { IF NOT DEC_CRT }

            END

            ELSE

            BEGIN

                WRITELN (SHIFT,'(One Two Three Four Double)');

            END;        { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

            { +
            Always ask the question, even for brief prompting.
            - }
            WRITELN (SHIFT,'(Type ''Double'' to allocate 2 areas per key)');
            WRITE (SHIFT,
            'Number of areas to allocate        (keyword)[Three] : ');

        END;    { EDF$K_GRANULARITY }
```

```
EDF$K_SET_FUNCTION :

BEGIN

    { +
    See what char to set.
    - }
    CLEAR (IF_FULL_PROMPT);

    IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

    BEGIN

        WRITELN (
        SHIFT,
        '                    ',
        ANSI_REVERSE,
        ' FDL Editor SET Function ',
        ANSI_RESET,
        CRLF,
        CRLF_SHIFT,
        'Analysis        filespec of FDL Analysis file',
        CRLF_SHIFT,
        'Display                 type of graph to display',
        CRLF_SHIFT,
        'Emphasis        of default bucketsize calculations',
        CRLF_SHIFT,
        'Granularity     number of areas in Indexed files',
        CRLF_SHIFT,
        'Number_Keys     number of keys in Indexed files',
        CRLF_SHIFT,
        'Output          filespec of FDL Output file',
        CRLF_SHIFT,
        'Prompting       Full or Brief prompting of menus',
        CRLF_SHIFT,
        'Responses       usage of default responses in scripts',
        CRLF);

    END

    ELSE

    BEGIN

        WRITELN (SHIFT,
        '(Analysis Display Emphasis Granularity',
        CRLF_SHIFT,' Number_Keys Output Prompting Responses)');

    END;        { IF FULL_PROMPT OR TEMP_FULL_PROMPT }

    { +
    Always ask the question, even for brief prompting.
    - }
    WRITE (SHIFT,
    'Editor characteristic to set       (keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,'     : ');
```

```
END;    { EDF$K_SET_FUNCTION }

EDF$K_MAX_RECORD_SIZE :

BEGIN

    WRITE (SHIFT,'Maximum Record Size             (');

    IF IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_REL_DESIGN_FDL THEN

    BEGIN

        EXTRA    := 0;
        WRITE (
        LOWMAX:NUM_LEN(LOWMAX),'-',
        CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),')',
        ANSI_REVERSE,'[=]',ANSI_RESET);
        QTAB[QTAB_OFFSET].DEFAULT_OK     := FALSE;

    END

    ELSE

    BEGIN

        EXTRA    := 2;
        WRITE ('0,',
        LOWMAX:NUM_LEN(LOWMAX),'-',CUR_MAX_REC:NUM_LEN(CUR_MAX_REC),
        ')[0]');
        QTAB[QTAB_OFFSET].DEFAULT_OK     := TRUE;
        QTAB[QTAB_OFFSET].DEFAULT        := 0;

    END;

    IF (
    ( EXTRA + NUM_LEN(LOWMAX) + NUM_LEN(CUR_MAX_REC) ) > 9
    ) THEN

        WRITE (' : ')

    ELSE

        WRITE ('         : ');

END;    { EDF$K_MAX_RECORD_SIZE }

EDF$K_TEST_PRIMARY :

BEGIN

    CLEAR (IF_FULL_PROMPT);

    IF FULL_CHOICE THEN

    BEGIN

```

```
                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

WRITELN (SHIFT,'                           ',
ANSI_REVERSE,
' Legal Primary Attributes ',
ANSI_RESET,
CRLF,
CRLF_SHIFT,
'ACCESS attributes set the run-time access mode of the file',
CRLF_SHIFT,
'AREA x attributes define the characteristics of file area x',
CRLF_SHIFT,
'CONNECT        attributes set various RMS run-time options',
CRLF_SHIFT,
'DATE  attributes set the date parameters of the file',
CRLF_SHIFT,
'FILE   attributes affect the entire RMS data file',
CRLF_SHIFT,
'JOURNAL        attributes set the journaling parameters of the file',
CRLF_SHIFT,
'KEY y  attributes define the characteristics of key y',
CRLF_SHIFT,
'RECORD attributes set the non-key aspects of each record',
CRLF_SHIFT,
'SHARING        attributes set the run-time sharing mode of the file',
CRLF_SHIFT,
'SYSTEM attributes document operating system-specific items',
CRLF_SHIFT,
'TITLE  is the header line for the FDL file',
CRLF);

(* insert in above to handle ACLs
'ACL      entries specify the Access-Control-List of the file',
CRLF_SHIFT,
*)

                END

                ELSE
                    WRITELN (SHIFT,
                    '(ACCESS AREA CONNECT DATE FILE JOURNAL',
                    CRLF_SHIFT,
                    ' KEY RECORD SHARING SYSTEM TITLE)');

(* ACL insert in above to handle ACLs *)

            END

            ELSE

            BEGIN

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN
```

```

                            WRITELN (
                            SHIFT,'              ',
                            ANSI_REVERSE,
                            ' Current Primary Attributes ',
                            ANSI_RESET,
                            CRLF
                            );

                            { +
                            Setup to display definition on the terminal.
                            - }
                            OPEN        (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                                        RECORD_LENGTH := 252);
                            REWRITE     (FDL_DEST);

                            SHOW_ALL_PRIMARIES;

                            CLOSE       (FDL_DEST);

                        END

                        ELSE

                            WRITELN (SHIFT,
                            '(Type "?" for a list of existing Primary Attributes)');

                    END;

                    { +
                    Pop the question.
                    - }
                    WRITE (SHIFT,'Enter Desired Primary         (Keyword)[',
                    DEFAULT_PRIMARY:PRIMARY_WIDTH[DEFAULT_PRIMARY]);

                    IF DEFAULT_PRIMARY IN [ AREA, KEY ] THEN

                        WRITE (' ',DEFAULT_PRINUM:NUM_LEN(DEFAULT_PRINUM));

                    WRITE ('] : ');

                END;    { EDF$K_TEST_PRIMARY }

            OTHERWISE

                { NULL-STATEMENT } ;

            END;        { CASE }

        END;    { WRITE_QUESTION }
```

```
{ ++

SPREAD_LOW_HIGH -- Routine to make sure high-bound is 5 away from low-bound.

This procedure adjusts Y_LOW,Y_HIGH until high-bound >= low-bound.

CALLING SEQUENCE:

SPREAD_LOW_HIGH (LO_LIM,HI_LIM);

INPUT PARAMETERS:

LO_LIM
HI_LIM

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE SPREAD_LOW_HIGH ( LO_LIM, HI_LIM : INTEGER );

BEGIN

    { +
    Make sure the bounds are at least 5 apart.
    - }
    IF (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) < 5 THEN

    BEGIN

        REPEAT

            IF IDATA[EDF$K_Y_LOW] > LO_LIM THEN

                IDATA[EDF$K_Y_LOW]     := IDATA[EDF$K_Y_LOW] - 1;

            IF IDATA[EDF$K_Y_HIGH] < HI_LIM THEN

                IDATA[EDF$K_Y_HIGH]    := IDATA[EDF$K_Y_HIGH] + 1;

        UNTIL (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) > 4;

    END;

END;    { SPREAD_LOW_HIGH }
```

```
{ ++

AUTO_SCALE -- Scale a surface plot.

This procedure adjusts Y_LOW,Y_HIGH,Y_INCR until the plot fits on the screen.

CALLING SEQUENCE:

AUTO_SCALE (LOW_LIMIT,HIGH_LIMIT);

INPUT PARAMETERS:

LOW_LIMIT
HIGH_LIMIT

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
PROCEDURE AUTO_SCALE ( LOW_LIMIT, HIGH_LIMIT : INTEGER );

BEGIN

    { +
    Figure out what the step between lines should be.
    We always have max_array_row steps.
    - }
    TEMP_INT2    := IDATA[EDF$K_Y_HIGH];
    TEMP_REAL    := (IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) / MAX_ARRAY_ROW;

    IDATA[EDF$K_Y_INCR] := TRUNC (TEMP_REAL);

    IF ((IDATA[EDF$K_Y_HIGH] - IDATA[EDF$K_Y_LOW]) MOD MAX_ARRAY_ROW) > 0 THEN

        IDATA[EDF$K_Y_INCR]      := IDATA[EDF$K_Y_INCR] + 1;

    { +
    Juggle the margins and the step until we get it to fit.
    - }
    REPEAT

        IDATA[EDF$K_Y_HIGH]      := IDATA[EDF$K_Y_LOW]
                                        + (MAX_ARRAY_ROW * IDATA[EDF$K_Y_INCR]);

        { +
        Adjust down if too high.
        - }
        WHILE IDATA[EDF$K_Y_HIGH] > HIGH_LIMIT DO

        BEGIN

            IDATA[EDF$K_Y_LOW]          := IDATA[EDF$K_Y_LOW] - 1;
            IDATA[EDF$K_Y_HIGH]         := IDATA[EDF$K_Y_HIGH] - 1;

        END;

        { +
        Adjust up if too low.
        - }
        WHILE IDATA[EDF$K_Y_LOW] < LOW_LIMIT DO

        BEGIN

            IDATA[EDF$K_Y_LOW]          := IDATA[EDF$K_Y_LOW] + 1;
            IDATA[EDF$K_Y_HIGH]         := IDATA[EDF$K_Y_HIGH] + 1;

        END;

        { +
        Try a smaller step if this didn't work.
        - }
        IF (IDATA[EDF$K_Y_LOW] < LOW_LIMIT) OR (IDATA[EDF$K_Y_HIGH] > HIGH_LIMIT) THEN

            IDATA[EDF$K_Y_INCR]         := IDATA[EDF$K_Y_INCR] - 1;

    UNTIL (IDATA[EDF$K_Y_LOW] >= LOW_LIMIT) AND (IDATA[EDF$K_Y_HIGH] <= HIGH_LIMIT);
```

```

        { +
        Adjust the range up if we've squeezed it low.
        - }
        IF IDATA[EDF$K_Y_HIGH] < TEMP_INT2 THEN

        BEGIN

            IDATA[EDF$K_Y_LOW]        := IDATA[EDF$K_Y_LOW]
                                           + (TEMP_INT2 - IDATA[EDF$K_Y_HIGH]);
            IDATA[EDF$K_Y_HIGH]       := IDATA[EDF$K_Y_HIGH]
                                           + (TEMP_INT2 - IDATA[EDF$K_Y_HIGH]);

        END;

    END;    { AUTO_SCALE }
```

```
{ ++

ALT_SOURCE -- Look for the answer elsewhere.

This function can look in the definition linked list or the analysis linked
list, if it is determined that asking the user isn't appropriate.

CALLING SEQUENCE:

BOOLEAN_VAR := ALT_SOURCE (LINE_OBJECT_TYPE,PRIMARY,PRINUM,SECONDARY,SECNUM,AN_FLAG);

INPUT PARAMETERS:

OBJECT_TYPE
PRIMARY
PRINUM
SECONDARY
SECNUM
AN_FLAG

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if the question should be asked, FALSE if it should be skipped.

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
FUNCTION ALT_SOURCE (
                        OBJ_TYP          : LINE_OBJECT_TYPE;
                        PRIM             : PRIMARY_TYPE;
                        PRIMNUM          : INTEGER;
                        SECO             : SECONDARY_TYPE;
                        SECONUM          : INTEGER;
                        AN_FLAG          : BOOLEAN
                        ) : BOOLEAN;

BEGIN

    { +
    Initial setup for GLOBAL_COUNT question.
    - }
    IF QTAB_OFFSET = EDF$K_GLOBAL_COUNT THEN

        GLOBAL_SET              := FALSE;

    { +
    Should the question be visible?
    The questions asking compression percent are never visible and should
    always be found in the analysis file.
    - }
    IF (
    ((VISIBLE_QUESTION) OR (NOT OPTIMIZING))
    AND
    ( NOT (QTAB_OFFSET IN [ EDF$K_DATA_RECORD_COMP, EDF$K_DATA_KEY_COMP,
                                EDF$K_INDEX_RECORD_COMP ]])
    ) THEN

    BEGIN

        ALT_SOURCE      := TRUE;

    END

    ELSE IF OPTIMIZING THEN

    BEGIN

        { +
        Try to get the data from the alternate source.
        - }
        IF AN_FLAG THEN

            POINT_AT_ANALYSIS;

        IF FIND_OBJECT (OBJ_TYP,PRIM,PRIMNUM,SECO,SECONUM) THEN

        BEGIN

            ALT_SOURCE  := FALSE;

            CASE QTAB_OFFSET OF

                EDF$K_KEY_NAME,
                EDF$K_FDL_TITLE,
EDF$K_DATA_FILE_NAME :

BEGIN

    LIB$SCOPY_DXDX (DEF_CURRENT^.STRING,SDATA[QTAB_OFFSET]);
    BDATA[QTAB_OFFSET]  := TRUE;

END;

EDF$K_NUMBER_DUPS,
EDF$K_DESIRED_FILL,
EDF$K_CONTROL_SIZE,
EDF$K_MAX_RECORD_SIZE,
EDF$K_MEAN_RECORD_SIZE,
EDF$K_DATA_KEY_COMP,
EDF$K_DATA_RECORD_COMP,
EDF$K_CLUSTER_SIZE,
EDF$K_PROLOGUE_VERSION,
EDF$K_INDEX_RECORD_COMP :

BEGIN

    IDATA[QTAB_OFFSET]  := DEF_CURRENT^.NUMBER;
    INPUT_VALUE         := IDATA[QTAB_OFFSET];

END;

EDF$K_KEY_TYPE,
EDF$K_CARR_CTRL,
EDF$K_RECORD_FORMAT :

BEGIN

    IDATA[QTAB_OFFSET]  := DEF_CURRENT^.QUALIFIER;
    INPUT_VALUE         := IDATA[QTAB_OFFSET];

END;

EDF$K_KEY_POSITION :

BEGIN

    IDATA[QTAB_OFFSET]                      := DEF_CURRENT^.NUMBER;
    INPUT_VALUE                             := IDATA[QTAB_OFFSET];
    SEGMENT_POSITION[SEGMENT_NUMBER]        := INPUT_VALUE;

END;

EDF$K_KEY_SIZE :

BEGIN

    IDATA[QTAB_OFFSET]                      := DEF_CURRENT^.NUMBER;
    INPUT_VALUE                             := IDATA[QTAB_OFFSET];
    SEGMENT_LENGTH[SEGMENT_NUMBER]          := INPUT_VALUE;

END;
```

```
                EDF$K_GLOBAL_COUNT :

                BEGIN

                    IDATA[QTAB_OFFSET]  := DEF_CURRENT^.NUMBER;
                    INPUT_VALUE         := IDATA[QTAB_OFFSET];
                    GLOBAL[_SET         := TRUE;

                END;    { EDF$K_GLOBAL_COUNT }

                EDF$K_KEY_DUPS,
                EDF$K_KEY_CHANGES,
                EDF$K_KEY_COMP_WANTED,
                EDF$K_REC_COMP_WANTED,
                EDF$K_IDX_COMP_WANTED :

                BEGIN

                    BDATA[QTAB_OFFSET]    := DEF_CURRENT^.SWITCH;

                    IF DEF_CURRENT^.SWITCH THEN

                        INPUT_VALUE     := EDF$K_YES

                    ELSE

                        INPUT_VALUE     := EDF$K_NO;

                END;    { EDF$K_KEY_DUPS }

            OTHERWISE

                { NULL-STATEMENT } ;

            END;          { CASE }

        END     { IF FOUND }

        ELSE

        BEGIN

            { +
            We couldn't find it - ask the user directly.
            - }
            ALT_SOURCE  := TRUE;

            { +
            Unless we're in /NOINTERACTIVE, in which case,
            exit with an error.
            - }
            IF (
            (AUTO_TUNE)
            AND
            (QTAB_OFFSET IN [ EDF$K_INITIAL_COUNT, EDF$K_KEY_SIZE,
             EDF$R_MEAN_RECORD_SIZE ])
            ) THEN

                LIB$STOP (EDF$_INSFANL,0,0,0);

            IF (QTAB_OFFSET IN [ EDF$K_DATA_RECORD_COMP, EDF$K_DATA_KEY_COMP,
                                EDF$K_INDEX_RECORD_COMP ]) THEN

            BEGIN

                ALT_SOURCE              := FALSE;
                RDATA[QTAB_OFFSET]      := 0.0;

            END;

        END;    { IF NOT FOUND }

        POINT_AT_DEFINITION;

    END;        { IF FALSE (VISIBLE_QUESTION) OR (NOT OPTIMIZING) }

END;    { ALT_SOURCE }
```

```
{ ++

PRE_PROCESS -- Routine to setup question.

This function does any needed calculations before asking the question.

CALLING SEQUENCE:

status := PRE_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION PRE_PROCESS : BOOLEAN;

VAR
    RECORD_OVERHEAD        : INTEGER;
    TEMP_KEY_SIZE          : INTEGER;
    RESULT                 : BOOLEAN;

BEGIN

    { +
    Assume success.
    - }
    PRE_PROCESS            := TRUE;

    CASE QTAB_OFFSET OF

        EDF$K_SURFACE_OPTION :

            IF (
            (IDATA[EDF$K_ACTIVE_KEY] <> 0)
            AND
            ( NOT (QTAB[QTAB_OFFSET].DEFAULT IN [ EDF$K_LINE_SURFACE,
                        EDF$K_FILL_SURFACE, EDF$K_KEY_SURFACE ]))
            ) THEN

                QTAB[QTAB_OFFSET].DEFAULT        := EDF$K_LINE_SURFACE;

        EDF$K_ADDED_COUNT_HIGH,
        EDF$K_INITIAL_COUNT_HIGH :

            IF IDATA[EDF$K_Y_LOW] = 0 THEN

                DEF      := 100000

            ELSE

                DEF      := 50 * IDATA[EDF$K_Y_LOW];

        EDF$K_KEY_LOW :

        BEGIN

            { +
            See how far we can go.
            - }
            IF (
            (IDATA[EDF$K_MAX_RECORD_SIZE] = 0)
            OR
            (IDATA[EDF$K_MAX_RECORD_SIZE] > 255)
            ) THEN

                MAX_KEY_SIZE    := 255

            ELSE

                MAX_KEY_SIZE    := IDATA[EDF$K_MAX_RECORD_SIZE];

    QTAB[QTAB_OFFSET].HIGH_BOUND        := MAX_KEY_SIZE;
    QTAB[QTAB_OFFSET+1].HIGH_BOUND      := MAX_KEY_SIZE;
    QTAB[QTAB_OFFSET+1].DEFAULT         := MAX_KEY_SIZE;

END;    { EDF$K_KEY_LOW }

EDF$K_DATA_KEY_COMP :

BEGIN

    PRE_PROCESS         := FALSE;
    IDATA[QTAB_OFFSET]  := 0;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    ) THEN

        RESULT          := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
               IDATA[EDF$K_ACTIVE_KEY],DATA_KEY_COMPRESSIONS,0,TRUE);

END;    { EDF$K_DATA_KEY_COMP }

EDF$K_DATA_RECORD_COMP :

BEGIN

    PRE_PROCESS         := FALSE;
    IDATA[QTAB_OFFSET]  := 0;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    ) THEN

        RESULT          := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
              IDATA[EDF$K_ACTIVE_KEY],DATA_RECORD_COMPRESSIONS,0,TRUE);

END;    { EDF$K_DATA_RECORD_COMP }

EDF$K_INDEX_RECORD_COMP :

BEGIN

    PRE_PROCESS         := FALSE;
    IDATA[QTAB_OFFSET]  := 0;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    ) THEN

        RESULT          := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
               IDATA[EDF$K_ACTIVE_KEY],INDEX_COMPRESSIONS,0,TRUE);
```

```
END;    { EDF$K_INDEX_RECORD_COMP }

EDF$K_KEY_POSITION :

BEGIN

    { +
    See how far we can go.
    - }
    IF BDATA[EDF$K_SEGMENTED] THEN

      BEGIN

        TEMP_KEY_SIZE     := 0;

        FOR TEMP_INT2 := 0 TO 7 DO

        BEGIN

            IF SEGMENT_WANTED[TEMP_INT2] THEN

                TEMP_KEY_SIZE   := TEMP_KEY_SIZE +
                                        SEGMENT_LENGTH[TEMP_INT2];

        END;

    END

      ELSE

        TEMP_KEY_SIZE     := IDATA[EDF$K_KEY_SIZE];

    IF IDATA[EDF$K_MAX_RECORD_SIZE] = 0 THEN

        MAX_KEY_POSITION        := CUR_MAX_REC - TEMP_KEY_SIZE

      ELSE

        MAX_KEY_POSITION        := IDATA[EDF$K_MAX_RECORD_SIZE]
                                         - TEMP_KEY_SIZE;


    QTAB[QTAB_OFFSET].HIGH_BOUND        := MAX_KEY_POSITION;

    PRE_PROCESS := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                        SEG_POSITION,SEGMENT_NUMBER,FALSE);

END;    { EDF$K_KEY_POSITION }

EDF$K_KEY_DIST :

    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_KEY_DIST])
    ) THEN
```

```
        IF IDATA[EDF$K_ADDED_COUNT] > 0 THEN

            PRE_PROCESS         := TRUE

        ELSE

        BEGIN

            BDATA[QTAB_OFFSET]  := TRUE;
            PRE_PROCESS         := FALSE;

        END

    ELSE

        PRE_PROCESS             := FALSE;

EDF$K_KEY_CHANGES :

    IF IDATA[EDF$K_ACTIVE_KEY] <> 0 THEN

        PRE_PROCESS     := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                        CHANGES,0,FALSE)

    ELSE

    BEGIN

        PRE_PROCESS             := FALSE;
        BDATA[QTAB_OFFSET]      := FALSE;

    END;

EDF$K_KEY_DUPS :

BEGIN

    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        QTAB[QTAB_OFFSET].DEFAULT       := EDF$K_NO

    ELSE

        QTAB[QTAB_OFFSET].DEFAULT       := EDF$K_YES;

    PRE_PROCESS := ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
            DUPLICATES,0,FALSE);

END;    { EDF$K_KEY_DUPS }

EDF$K_NUMBER_KEYS :

    PRE_PROCESS := (
                        (VISIBLE_QUESTION)
                        OR
                        (NOT NUMBER_KEYS_SET)
```

```
                    );

EDF$K_CLUSTER_SIZE :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet. Or unless we're optimizing.
    - }
    IF OPTIMIZING THEN

        PRE_PROCESS     := ALT_SOURCE (SEC,FILE$,0,CLUSTER_SIZE,0,TRUE)

    ELSE

        PRE_PROCESS    := (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[EDF$K_ADDED_COUNT])
                );

END;    { EDF$K_CLUSTER_SIZE }

EDF$K_KEY_COMP_WANTED :

BEGIN

    PRE_PROCESS        := FALSE;
    BDATA[QTAB_OFFSET] := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
                IDATA[EDF$R_ACTIVE_KEY],DATA_KEY_COMPRESSION,0,FALSE);

END;    { EDF$K_DATA_RECORD_WANTED }

EDF$K_REC_COMP_WANTED :

BEGIN

    PRE_PROCESS        := FALSE;
    BDATA[QTAB_OFFSET] := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    AND
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
             IDATA[EDF$K_ACTIVE_KEY],DATA_RECORD_COMPRESSION,0,FALSE);

END;    { EDF$K_REC_COMP_WANTED }

EDF$K_IDX_COMP_WANTED :

BEGIN

    PRE_PROCESS         := FALSE;
    BDATA[QTAB_OFFSET]  := FALSE;

    IF (
    (VDATA[EDF$K_PROLOGUE_VERSION])
    AND
    (IDATA[EDF$K_PROLOGUE_VERSION] > 2)
    AND
    (IDATA[EDF$K_KEY_TYPE] = FDL$C_STG)
    ) THEN

        PRE_PROCESS := ALT_SOURCE (SEC,KEY,
                IDATA[EDF$K_ACTIVE_KEY],INDEX_COMPRESSION,0,FALSE);

END;    { EDF$K_IDX_COMP_WANTED }

EDF$K_NUMBER_DUPS :

BEGIN

    PRE_PROCESS                   := FALSE;
    IDATA[EDF$K_NUMBER_DUPS]      := 0;

    RESULT      := ALT_SOURCE (SEC,ANALYSIS_OF_KEY,
            IDATA[EDF$K_ACTIVE_KEY],DUPLICATES_PER_SIDR,0,TRUE);

END;

EDF$K_SEGMENTED :

BEGIN

    FOR TEMP_INT2 := 0 TO 7 DO

    BEGIN

        SEGMENT_WANTED[TEMP_INT2]      := FALSE;
        SEGMENT_POSITION[TEMP_INT2]    := 0;
        SEGMENT_LENGTH[TEMP_INT2]      := 0;

    END;

    BDATA[QTAB_OFFSET]  := FALSE;
    IF IDATA[EDF$K_KEY_TYPE] <> FDL$C_STG THEN

        PRE_PROCESS       := FALSE;

END;

EDF$K_GLOBAL_WANTED :

BEGIN

    { +
    Set global_wanted by the presence or absence of a
    global_buffer count secondary in the list, when optimizing.
    THIS DOESN'T USE ALT_SOURCE BECAUSE IT DOESN'T GET THE
    CONTENTS OF THE SECONDARY IN THE LIST, BUT DECIDES ON THE
    BASIS OF ITS EXISTENCE.
    - }
    IF OPTIMIZING THEN

    BEGIN

        IF FIND_OBJECT (SEC,FILE$,0,GLOBAL_BUFFER_COUNT,0) THEN

            INPUT_VALUE          := EDF$K_YES

        ELSE

            INPUT_VALUE          := EDF$K_NO;

        PRE_PROCESS              := FALSE;

    END;

END;    { EDF$K_GLOBAL_WANTED }

EDF$K_GLOBAL_COUNT :

BEGIN

    PRE_PROCESS := FALSE;
    RESULT      := ALT_SOURCE (SEC,FILE$,0,GLOBAL_BUFFER_COUNT,0,FALSE);

END;

EDF$K_INITIAL_COUNT :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked yet.
    - }
    PRE_PROCESS := (
            (IDATA[EDF$K_ACTIVE_KEY] = 0)
            OR
            (NOT VDATA[QTAB_OFFSET])
            );

        IF OPTIMIZING THEN

        BEGIN

            POINT_AT_ANALYSIS;

            IF FIND_OBJECT (SEC,ANALYSIS_OF_KEY,0,DATA_RECORD_COUNT,0) THEN

                OLD_COUNT   := DEF_CURRENT^.NUMBER

            ELSE

                OLD_COUNT   := 0;

            POINT_AT_DEFINITION;

            QTAB[QTAB_OFFSET].DEFAULT_OK    := TRUE;
            QTAB[QTAB_OFFSET].DEFAULT       := OLD_COUNT;

        END

        ELSE

            QTAB[QTAB_OFFSET].DEFAULT_OK    := FALSE;

    END;    { EDF$K_INITIAL_COUNT }

    EDF$K_ASCENDING_LOAD :

        { +
        This question shouldn't be asked if we're doing a conv/fast,
        or for alternate keys, unless it hasn't been asked yet.
        - }
        PRE_PROCESS := (
                (IDATA[EDF$K_INITIAL_COUNT] > 0)
                AND
                (IDATA[EDF$K_LOAD_METHOD] <> EDF$K_FAST_CONVERT)
                AND
                    (
                    (IDATA[EDF$K_ACTIVE_KEY] = 0)
                    OR
                    (NOT VDATA[EDF$K_ASCENDING_LOAD])
                    )
                );

    EDF$K_ADDED_COUNT :

        { +
        This question shouldn't be asked for alternate keys,
        unless it hasn't been asked yet.
        - }
        PRE_PROCESS := (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[EDF$K_ADDED_COUNT])
                );
```

```
EDF$K_LOAD_METHOD :

BEGIN

    IF IDATA[EDF$K_INITIAL_COUNT] > 0 THEN

        RESULT  := (
                (IDATA[EDF$K_ACTIVE_KEY] = 0)
                OR
                (NOT VDATA[QTAB_OFFSET])
                )

    ELSE

    BEGIN

        { +
        If we have no initial load, default it to rms puts
        - }
        IDATA[QTAB_OFFSET]      := EDF$K_RMS_PUTS;
        RESULT                  := FALSE;

    END;        { IF FALSE IDATA[EDF$K_INITIAL_COUNT] > 0 }

    IF NOT RESULT THEN

        INPUT_VALUE             := IDATA[QTAB_OFFSET];

    PRE_PROCESS                 := RESULT;

END;    { EDF$K_LOAD_METHOD }

EDF$K_BLOCK_SPAN :

BEGIN

    IF IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_SEQ_DESIGN_FDL THEN

        PRE_PROCESS     := TRUE

    ELSE

    BEGIN

        PRE_PROCESS             := FALSE;
        INPUT_VALUE             := EDF$K_YES;

    END;

END;    { EDF$K_BLOCK_SPAN }

EDF$K_DATA_FILE_NAME :

BEGIN

    MAX_STRING_ANSWER_LENGTH    := 126;
```

```
          BDATA[QTAB_OFFSET]            := FALSE;

          IF OPTIMIZING THEN

              PRE_PROCESS       :=
                  ALT_SOURCE (SEC,FILE$,0,NAME,0,FALSE);

      END;    { EDF$K_DATA_FILE_NAME }

      EDF$K_FDL_TITLE :

      BEGIN

          MAX_STRING_ANSWER_LENGTH      := 126;
          BDATA[QTAB_OFFSET]            := FALSE;

          IF OPTIMIZING THEN

              PRE_PROCESS       :=
                  ALT_SOURCE (PRI,TITLE,0,DUMMY_SECONDARY$,0,FALSE);

      END;    { EDF$K_FDL_TITLE }

      EDF$K_KEY_NAME :

      BEGIN

          MAX_STRING_ANSWER_LENGTH      := 32;
          BDATA[QTAB_OFFSET]            := FALSE;

          IF OPTIMIZING THEN

              PRE_PROCESS       :=
                  ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],NAME$,0,FALSE);

      END;

      EDF$K_ANALYSIS,
      EDF$K_OUTPUT :

      BEGIN

          MAX_STRING_ANSWER_LENGTH      := 126;
          BDATA[QTAB_OFFSET]            := FALSE;

          IF OPTIMIZING THEN

              PRE_PROCESS               := FALSE;

      END;

      EDF$K_ASCENDING_ADDED :

          { +
          This question shouldn't be asked for alternate keys,
          unless it hasn't been asked yet.
          - }
```

```
    PRE_PROCESS := (
            (IDATA[EDF$K_ADDED_COUNT] > 0)
            AND
                ((IDATA[EDF$K_ACTIVE_KEY] = 0)
                 OR
                (NOT VDATA[EDF$K_ASCENDING_ADDED]))
            );

EDF$K_BLOCKS_IN_BUCKET :

BEGIN

    QTAB[QTAB_OFFSET].DEFAULT   := BUCKET_DEFAULT;

    { +
    Calculate the bucket overhead.
    THIS QUESTION IS ONLY FOR INDEXED_DESIGN.
    - }
    BUCKET_OVERHEAD     := CALC_BUC_OVERHEAD(0);

    { +
    See what the smallest allowable bucketsize is.
    - }
    IF IDATA[EDF$K_ACTIVE_KEY] = 0 THEN

        ENTRY_SIZE      := IDATA[EDF$K_MAX_RECORD_SIZE]

    ELSE

    BEGIN

        IF BDATA[EDF$K_SEGMENTED] THEN

        BEGIN

            ENTRY_SIZE  := 0;

            FOR TEMP_INT2 := 0 TO 7 DO

            BEGIN

                IF SEGMENT_WANTED[TEMP_INT2] THEN

                      ENTRY_SIZE  := ENTRY_SIZE +
                                      SEGMENT_LENGTH[TEMP_INT2];

            END;

        END

        ELSE

            ENTRY_SIZE  := IDATA[EDF$K_KEY_SIZE];

    END;

    RECORD_OVERHEAD     := CALC_REC_OVERHEAD(0);
    MIN_BUCKET  := (ENTRY_SIZE + BUCKET_OVERHEAD + RECORD_OVERHEAD)
                        DIV 512;

    IF (
    (((ENTRY_SIZE + BUCKET_OVERHEAD + RECORD_OVERHEAD) MOD 512) <> 0)
    OR
    (MIN_BUCKET = 0)
    ) THEN

        MIN_BUCKET      := MIN_BUCKET + 1;

    QTAB[QTAB_OFFSET].LOW_BOUND := MIN_BUCKET;

    IF QTAB[QTAB_OFFSET].DEFAULT < QTAB[QTAB_OFFSET].LOW_BOUND THEN

        QTAB[QTAB_OFFSET].DEFAULT       := QTAB[QTAB_OFFSET].LOW_BOUND;

END;    { EDF$K_BLOCKS_IN_BUCKET }

EDF$K_KEY_SIZE :

BEGIN

    { +
    Check according to key type.
    - }
    CASE IDATA[EDF$K_KEY_TYPE] OF

        FDL$C_BN2, FDL$C_IN2 :

        BEGIN

            MAX_KEY_SIZE        := 2;
            MIN_KEY_SIZE        := 2;

        END;

        FDL$C_BN4, FDL$C_IN4 :

        BEGIN

            MAX_KEY_SIZE        := 4;
            MIN_KEY_SIZE        := 4;

        END;

        FDL$C_BN8, FDL$C_IN8 :

        BEGIN

            MAX_KEY_SIZE        := 8;
            MIN_KEY_SIZE        := 8;

        END;

        FDL$C_PAC :
```

```
    BEGIN

        MAX_KEY_SIZE            := 16;
        MIN_KEY_SIZE            := 1;

    END;

    FDL$C_STG :

    BEGIN

        MAX_KEY_SIZE            := 255;
        MIN_KEY_SIZE            := 1;

    END;

OTHERWISE

    { NULL-STATEMENT } ;

END;        { CASE }

{ +
See how far we can go.
- }
IF (
(IDATA[EDF$K_MAX_RECORD_SIZE] <> 0)
AND
(IDATA[EDF$K_MAX_RECORD_SIZE] < MAX_KEY_SIZE)
) THEN

    MAX_KEY_SIZE    := IDATA[EDF$K_MAX_RECORD_SIZE];

QTAB[QTAB_OFFSET].LOW_BOUND          := MIN_KEY_SIZE;
QTAB[QTAB_OFFSET].HIGH_BOUND         := MAX_KEY_SIZE;

RESULT      :=
    ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],SEG_LENGTH,
                       SEGMENT_NUMBER,FALSE);
PRE_PROCESS := RESULT;

IF (
(RESULT)
AND
(QTAB[QTAB_OFFSET].LOW_BOUND = QTAB[QTAB_OFFSET].HIGH_BOUND)
) THEN

BEGIN

    PRE_PROCESS                      := FALSE;
    INPUT_VALUE                      := QTAB[QTAB_OFFSET].LOW_BOUND;
    IDATA[QTAB_OFFSET]               := INPUT_VALUE;
    SEGMENT_LENGTH[SEGMENT_NUMBER]   := INPUT_VALUE;

END;
```

```
END;    { EDF$K_KEY_SIZE }

EDF$K_PROLOGUE_VERSION :

BEGIN

    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_PROLOGUE_VERSION])
    ) THEN

        PRE_PROCESS      :=
        ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],PROLOGUE,0,FALSE)

    ELSE

        PRE_PROCESS      := FALSE;

END;

EDF$K_ACTIVE_KEY :

BEGIN

    { +
    Find out the range of existing keys (assume contiguous).
    - }
    SCAN_DEFINITION (TRUE);

    QTAB[QTAB_OFFSET].LOW_BOUND          := LOW_KEY;
    QTAB[QTAB_OFFSET].HIGH_BOUND         := HIGH_KEY;

    IF (
    (QTAB[QTAB_OFFSET].LOW_BOUND = QTAB[QTAB_OFFSET].HIGH_BOUND)
    ) THEN

    BEGIN

        PRE_PROCESS      := FALSE;
        INPUT_VALUE      := QTAB[QTAB_OFFSET].LOW_BOUND;

    END;

END;    { EDF$K_ACTIVE_KEY }

EDF$K_CARR_CTRL :

BEGIN

    { +
    Don't actually ask the question if the user is optimizing a key,
    or if it's an alternate key - unless it hasn't been asked yet.
    - }
    IF (
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
    (NOT VDATA[EDF$K_CARR_CTRL])
    ) THEN

        PRE_PROCESS      :=
                ALT_SOURCE (SEC,RECORD$,0,CARRIAGE_CONTROL,0,FALSE)

    ELSE

        PRE_PROCESS      := FALSE;

END;      { EDF$K_CARR_CTRL }

EDF$K_CONTROL_SIZE :

BEGIN

    { +
    The fixed portion of a record can't be larger than the record.
    - }
    IF IDATA[EDF$K_MEAN_RECORD_SIZE] < 256 THEN

        CUR_MAX_FIXED   := IDATA[EDF$K_MEAN_RECORD_SIZE]

    ELSE

        CUR_MAX_FIXED   := 255;

    QTAB[QTAB_OFFSET].HIGH_BOUND        := CUR_MAX_FIXED;

    PRE_PROCESS := ALT_SOURCE (SEC,RECORD$,0,CONTROL_FIELD_SIZE,0,FALSE);

END;            { EDF$K_CONTROL_SIZE }

EDF$K_KEY_TYPE :

BEGIN

    PRE_PROCESS :=
        ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],SEG_TYPE,7,FALSE);

END;            { EDF$K_KEY_TYPE }

EDF$K_DESIRED_FILL :

BEGIN

    { +
    Fill doesn't mean anything if we don't have any records.
    - }
    IF IDATA[EDF$K_INITIAL_COUNT] > 0 THEN

    BEGIN

        PRE_PROCESS      :=
                ALT_SOURCE (SEC,KEY,IDATA[EDF$K_ACTIVE_KEY],
                DATA_FILL,0,FALSE)
    END         { IF TRUE IDATA[EDF$K_INITIAL_COUNT > 0 }

    ELSE

    BEGIN

        IDATA[EDF$K_DESIRED_FILL]           := 100;
        IDATA[EDF$K_FDL_FIL[]               := 100;
        PRE_PROCESS                         := FALSE;

    END;

END;    { EDF$K_DESIRED_FILL }

EDF$K_MAX_RECORD_SIZE :

BEGIN

    { +
    Because mean_record_size includes fixed control area, and maximum
    record size doesn't, it's possible to get a mean that's larger
    than the max. Don't get confused by it.
    - }
    IF CUR_MAX_REC < IDATA[EDF$K_MEAN_RECORD_SIZE] THEN

        LOWMAX  := CUR_MAX_REC

    ELSE

        LOWMAX  := IDATA[EDF$K_MEAN_RECORD_SIZE];

    QTAB[QTAB_OFFSET].LOW_BOUND         := LOWMAX;
    QTAB[QTAB_OFFSET].HIGH_BOUND        := CUR_MAX_REC;

    PRE_PROCESS := ALT_SOURCE (SEC,RECORD$,0,SIZE,0,FALSE);

END;    { EDF$K_MAX_RECORD_SIZE }

EDF$K_SIZE_LOW :

                CUR_MAX_REC := (BKT$C_MAXBKTSIZ * 512) -
                        (CALC_BUC_OVERHEAD(0) + CALC_REC_OVERHEAD(0));

EDF$K_MEAN_RECORD_SIZE :

BEGIN

    { +
    Setup the max allowable record size.
    - }
    CASE IDATA[EDF$K_SCRIPT_OPTION] OF

        EDF$K_ADD_KEY_FDL,
        EDF$K_DELETE_KEY_FDL,
        EDF$K_IDX_DESIGN_FDL,
        EDF$K_REDESIGN_FDL,
        EDF$K_OPTIMIZE_FDL :
                CUR_MAX_REC := (BKT$C_MAXBKTSIZ * 512) -
                          (CALC_BUC_OVERHEAD(0) + CALC_REC_OVERHEAD(0));
        EDF$K_SEQ_DESIGN_FDL :  CUR_MAX_REC       := BIGGEST_SEQ_FIXED;
        EDF$K_REL_DESIGN_FDL :  IF VARIABLE_RECORDS THEN

                                    CUR_MAX_REC := BIGGEST_REL_VAR

                                  ELSE

                                    CUR_MAX_REC := BIGGEST_REL_FIXED;

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

    IF (
    (IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_SEQ_DESIGN_FDL)
    AND
    (NOT BDATA[EDF$K_BLOCK_SPAN])
    ) THEN

        IF VARIABLE_RECORDS THEN

            CUR_MAX_REC := 510

        ELSE

            CUR_MAX_REC := 512;

    QTAB[QTAB_OFFSET].HIGH_BOUND         := CUR_MAX_REC;

    IF VARIABLE_RECORDS THEN

        PRE_PROCESS     :=
              ALT_SOURCE (SEC,ANALYSIS_OF_KEY,0,MEAN_DATA_LENGTH,0,TRUE)

    ELSE

        PRE_PROCESS     := ALT_SOURCE (SEC,RECORD$,0,SIZE,0,FALSE);

END;    { EDF$K_MEAN_RECORD_SIZE }

EDF$K_RECORD_FORMAT :

BEGIN

    { +
    This question shouldn't be asked for alternate keys,
    unless it hasn't been asked before.
    - }
    IF (
    (NOT ISAM_ORG)
    OR
    (IDATA[EDF$K_ACTIVE_KEY] = 0)
    OR
```

```
            (NOT VDATA[EDF$K_RECORD_FORMAT])
            ) THEN

                PRE_PROCESS     := ALT_SOURCE (SEC,RECORD$,0,FORMAT,0,FALSE)

            ELSE

                PRE_PROCESS     := FALSE;

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_DESIGN_CYCLE :

        BEGIN

            IF NOT AUTO_TUNE THEN

            BEGIN

                { +
                Display the current value of the file parameters.
                - }
                CLEAR (LOWER_AREA);

                { +
                Special support for the VT125. Turn on graphics mode, setup text.
                - }
                IF REGIS THEN

                BEGIN

                    WRITE (''(27)'Pp;');

                    IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

                        WRITE (
'P[27,285];T(W(I3))'' Key:    Good   '';T(W(I2))''Fair   '';T(W(I1))''Poor'';');

                    WRITELN ('P[27,320];T(W(I3))''');

                END;    { IF REGIS }

                WRITE (LOW_SHIFT,' ');

                WRITE ('PV-Prolog Version       ',IDATA[EDF$K_PROLOGUE_VERSION]:1,' ');
                WRITE ('KT-Key',
                IDATA[EDF$K_ACTIVE_KEY]:3,
                ' Type    ');

                CASE IDATA[EDF$K_KEY_TYPE] OF

                    FDL$C_BN2 :         WRITE ('   Bin2 ');
                    FDL$C_BN4 :         WRITE ('   Bin4 ');
                    FDL$C_BN8 :         WRITE ('   Bin8 ');
                    FDL$C_PAC :         WRITE ('Decimal ');
                    FDL$C_IN2 :         WRITE ('   Int2 ');
                    FDL$C_IN4 :         WRITE ('   Int4 ');
```

```
    FDL$C_IN8 :             WRITE ('   Int8 ');
    FDL$C_STG :             WRITE (' String ');

OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

WRITE ('EM-Emphasis  ');

IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

    WRITE ('     ');

IF IDATA[EDF$K_BUCKET_WEIGHT] = EDF$K_SMALLER_BUFFERS THEN

    WRITE ('Smaller')

ELSE

    WRITE ('Flatter');

IF IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE THEN

BEGIN

    BUCKET_DEFAULT      := NATURAL_DEPTH;
    WRITE (' (',BUCKET_DEFAULT:2,')');

END;

WRITELN;
WRITE (LOW_SHIFT,' ');

WRITE ('DK-Dup Key',
IDATA[EDF$K_ACTIVE_KEY]:3,
' Values  ');

IF BDATA[EDF$K_KEY_DUPS] THEN

    WRITE ('Yes ')

ELSE

    WRITE (' No ');

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_KEY_SURFACE) THEN

    WRITE ('KL-Key',IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Length      ',IDATA[EDF$K_KEY_SIZE]:3,' ');

WRITE ('KP-Key',IDATA[EDF$K_ACTIVE_KEY]:3,
' Position  ',IDATA[EDF$K_KEY_POSITION]:5,' ');

WRITELN;
```

```
WRITE (LOW_SHIFT,' ');

IF IDATA[EDF$K_PROLOGUE_VERSION] > 2 THEN

BEGIN

    WRITE ('RC-Data Record Comp  ',
    TRUNC(RDATA[EDF$K_DATA_RECORD_COMP]*100.0):3,'% ');
    WRITE ('KC-Data Key Comp     ',
    TRUNC(RDATA[EDF$K_DATA_KEY_COMP]*100.0):3,'% ');
    WRITE ('IC-Index Record Comp ',
    TRUNC(RDATA[EDF$K_INDEX_RECORD_COMP]*100.0):3,'% ');

    WRITELN;
    WRITE (LOW_SHIFT,' ');

END;    { IF IDATA[EDF$K_PROLOGUE_VERSION] > 2 }

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_FILL_SURFACE) THEN

    WRITE ('BF-Bucket Fill            ',IDATA[EDF$K_DESIRED_FILL]:3,'% ');

WRITE ('RF-Record Format ');

IF VARIABLE_RECORDS THEN

    WRITE ('Variable ')

ELSE

    WRITE ('   Fixed ');

IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_SIZE_SURFACE) THEN

BEGIN

    WRITE ('RS-');

    IF VARIABLE_RECORDS THEN

        WRITE ('Mean Record Size ')

    ELSE

        WRITE ('Record Size      ');

    WRITE (IDATA[EDF$K_MEAN_RECORD_SIZE]:5,' ');

END;


WRITELN;
WRITE (LOW_SHIFT,' ');

WRITE ('LM-Load Method ');
```

```
                CASE IDATA[EDF$K_LOAD_METHOD] OF

                    EDF$K_FAST_CONVERT :                WRITE (' Fast_Conv ');
                    EDF$K_NOFAST_CONVERT :              WRITE ('NoFast_Con ');
                    EDF$K_RMS_PUTS :            WRITE ('  RMS_Puts ');

                OTHERWISE

                    { NULL-STATEMENT } ;

                END;    { CASE }

                IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
                    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_INIT_SURFACE) THEN

                    WRITE ('IL-Initial Load ',IDATA[EDF$K_INITIAL_COUNT]:9,' ');

                IF (IDATA[EDF$K_SURFACE_OPTION] = EDF$K_LINE_SURFACE)
                    OR (IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_ADDED_SURFACE) THEN

                    WRITE ('AR-Added Records',IDATA[EDF$K_ADDED_COUNT]:9,' ');

                { +
                Done with display, now turn Graphics Mode off.
                - }
                IF REGIS THEN

                    WRITELN (''';'(27)'\',CRLF,CRLF);

                WRITELN;

                { +
                Compensate for absent compression line.
                - }
                IF IDATA[EDF$K_PROLOGUE_VERSION] < 3 THEN

                    WRITELN;

            END;        { IF NOT AUTO_TUNE }

        END;    { EDF$K_DESIGN_CYCLE }

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

END;    { PRE_PROCESS }
```

```
{ ++

VERIFY_PROCESS -- Routine to check answer during questioning.

This function makes sure the user is giving good answers.

CALLING SEQUENCE:

status := VERIFY_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION VERIFY_PROCESS : BOOLEAN;

BEGIN

    { +
    Assume success.
    - }
    VERIFY_PROCESS       := TRUE;

    CASE QTAB_OFFSET OF

        EDF$K_KEY_NAME,
        EDF$K_FDL_TITLE,
        EDF$K_ANALYSIS,
        EDF$K_OUTPUT,
        EDF$K_DATA_FILE_NAME :

        BEGIN

            IF SDATA[QTAB_OFFSET].DSC$W_LENGTH = 0 THEN

            BEGIN

                BDATA[QTAB_OFFSET]       := FALSE;

            END

            ELSE

            BEGIN

                IF (
                SDATA[QTAB_OFFSET].DSC$W_LENGTH > MAX_STRING_ANSWER_LENGTH
                ) THEN

                BEGIN

                    IF OPTIMIZING THEN

                    BEGIN

                        SDATA[QTAB_OFFSET].DSC$W_LENGTH :=
                                        MAX_STRING_ANSWER_LENGTH;
                        BDATA[QTAB_OFFSET]              := TRUE;

                    END

                    ELSE

                    BEGIN

                        STR$FREE1_DX (SDATA[QTAB_OFFSET]);
                        VERIFY_PROCESS  := FALSE;

                    END;

                END
```

```
          ELSE

              BDATA[QTAB_OFFSET]  := TRUE;

    END;        { IF FALSE SDATA[QTAB_OFFSET].DSC$W_LENGTH = 0 }

END;

EDF$K_FILL_LOW,
EDF$K_FILL_HIGH,
EDF$K_DESIRED_FILL :

    IF IDATA[QTAB_OFFSET] < 50 THEN

    BEGIN

        IDATA[QTAB_OFFSET]       := 50;

        IF NOT AUTO_TUNE THEN

        BEGIN

            WRITELN (SHIFT,'Initial Fill of 50% assumed');
            LIB$WAIT (3.0);

        END;

    END;

EDF$K_DESIGN_CYCLE :

BEGIN

    { +
    Make sure he hasn't typed a temporarily disabled option.
    - }
    IF IDATA[EDF$K_SURFACE_OPTION] <> EDF$K_LINE_SURFACE THEN

        IF (
        ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_FILL_SURFACE)
            AND (INPUT_VALUE ≡ EDF$K_BF))
        OR
        ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_INIT_SURFACE)
            AND (INPUT_VALUE ≡ EDF$K_IL))
        OR
        ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_ADDED_SURFACE)
            AND (INPUT_VALUE ≡ EDF$K_AR))
        OR
        ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_SIZE_SURFACE)
            AND (INPUT_VALUE ≡ EDF$K_RS))
        OR
        ((IDATA[EDF$K_SURFACE_OPTION] = EDF$K_KEY_SURFACE)
            AND (INPUT_VALUE ≡ EDF$K_KL))
        OR
        (
        ( NOT (IDATA[EDF$K_KEY_TYPE] IN [ FDL$C_PAC, FDL$C_STG ]) )
```

```
            AND (INPUT_VALUE = EDF$K_KL)
        )
        ) THEN

              VERIFY_PROCESS      := FALSE;

      { +
      Make sure that he modifies only reasonable things.
      The following options make sense only for the primary key.
      - }
      IF (
      (IDATA[EDF$K_ACTIVE_KEY] <> 0) AND (INPUT_VALUE IN
      [ EDF$K_RF, EDF$K_RS, EDF$K_IL, EDF$K_AR, EDF$K_PV, EDF$K_LM ])
      ) THEN

        VERIFY_PROCESS          := FALSE;

      IF (
      (IDATA[EDF$K_PROLOGUE_VERSION] < 3) AND (INPUT_VALUE IN
      [ EDF$K_KC, EDF$K_RC, EDF$K_IC ])
      ) THEN

        VERIFY_PROCESS          := FALSE;

      IF (IDATA[EDF$K_INITIAL_COUNT] < 1) AND
      (INPUT_VALUE = EDF$K_LM) THEN

        VERIFY_PROCESS          := FALSE;

      IF (
      (IDATA[EDF$K_INITIAL_COUNT] < 1)
      AND
      (INPUT_VALUE = EDF$K_BF)
      AND
      (NOT AUTO_TUNE)
      ) THEN

      BEGIN

        WRITELN (SHIFT,ANSI_REVERSE,
        ' Fill Factor used is 100% when Initial Load is zero. ',
        ANSI_RESET);
        LIB$WAIT (3.0);

      END;

END;      { EDF$K_DESIGN_CYCLE }

EDF$K_SURFACE_OPTION :

BEGIN

    { +
    Disallow queer options.
    - }
    IF (
      (IDATA[EDF$K_ACTIVE_KEY] <> 0)
```

```
   AND
      (
      (INPUT_VALUE = EDF$K_SIZE_SURFACE)
      OR
      (INPUT_VALUE = EDF$K_INIT_SURFACE)
      OR
      (INPUT_VALUE = EDF$K_ADDED_SURFACE)
      )
   ) THEN

      VERIFY_PROCESS  := FALSE;

END;    { EDF$K_SURFACE_OPTION }

EDF$K_RECORD_FORMAT :

BEGIN

   IDATA[EDF$K_RECORD_FORMAT]  := INPUT_VALUE;

   { +
   Indexed files can have only fixed or variable record format.
   Relative files can't be stream or undefined.
   - }
   IF (
      (
      (ISAM_ORG)
      AND
      (NOT (IDATA[EDF$K_RECORD_FORMAT] IN [ FDL$C_VAR, FDL$C_FIX ]))
      )
   OR
      (
      (IDATA[EDF$K_SCRIPT_OPTION] = EDF$K_REL_DESIGN_FDL)
      AND
      (IDATA[EDF$K_RECORD_FORMAT] IN [ FDL$C_STM, FDL$C_STMCR, FDL$C_STMLF, FDL$C_UDF ])
      )
   ) THEN

      VERIFY_PROCESS  := FALSE;

END;    { EDF$K_RECORD_FORMAT }

EDF$K_TEST_PRIMARY :

BEGIN

   TEST.OBJECT_TYPE             := PRI;
   TEST.PRIMARY                 := INPUT_VALUE::PRIMARY_TYPE;
   TEST.PRINUM                  := INPUT_NUMBER;
   DEFAULT_PRINUM               := INPUT_NUMBER;
   ACTIVE_PRIMARY               := TEST.PRIMARY;
   DEFAULT_PRIMARY              := ACTIVE_PRIMARY;
   QTAB[QTAB_OFFSET].DEFAULT    := INPUT_VALUE;

   IF (
   (TEST.PRIMARY = AREA)
   OR
```

```
(TEST.PRIMARY = KEY)
) THEN

BEGIN

    IF TEST.PRINUM > 254 THEN

        VERIFY_PROCESS      := FALSE;

    SCAN_DEFINITION (TRUE);

    IF (
    (FOUND_AREA)
    AND
    (TEST.PRIMARY = AREA)
    AND
    ((TEST.PRINUM - HIGH_AREA) > 1)
      ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (FOUND_KEY)
    AND
    (TEST.PRIMARY = KEY)
    AND
    ((TEST.PRINUM - HIGH_KEY) > 1)
      ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (NOT FOUND_AREA)
    AND
    (TEST.PRIMARY = AREA)
    AND
    (TEST.PRINUM > 0)
      ) THEN

        VERIFY_PROCESS      := FALSE;

    IF (
    (NOT FOUND_KEY)
    AND
    (TEST.PRIMARY = KEY)
    AND
    (TEST.PRINUM > 0)
      ) THEN

        VERIFY_PROCESS      := FALSE;

END { IF TRUE (TEST.PRIMARY = AREA) OR (TEST.PRIMARY = KEY) }

ELSE

    TEST.PRINUM             := 0;
```

```
            { +
            If we're asking for only ones that exist, make sure this one does.
            - }
            IF NOT FULL_CHOICE THEN
            BEGIN
                DEF_CURRENT     := DEF_HEAD;
                REPEAT
                    IF NOT CURRENT_EQ_TEST(TEST,FALSE) THEN
                        INCR_CURRENT;
                UNTIL (CURRENT_EQ_TEST(TEST,FALSE) OR (DEF_CURRENT^.FORE = NIL));
                IF DEF_CURRENT <> NIL THEN
                BEGIN
                    IF NOT CURRENT_EQ_TEST(TEST,FALSE) THEN
                        VERIFY_PROCESS  := FALSE;
                END
                ELSE
                    VERIFY_PROCESS      := FALSE;
            END;
        END;      { EDF$K_TEST_PRIMARY }
    OTHERWISE
        { NULL-STATEMENT } ;
    END;          { CASE }
END;    { VERIFY_PROCESS }
```

```
{ ++

POST_PROCESS -- Routine to finish up a question.

This function does any calculations needed once a question is anwerred.

CALLING SEQUENCE:

status := POST_PROCESS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

none

ROUTINES CALLED:

none

ROUTINE VALUE:

TRUE if we should continue, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
FUNCTION POST_PROCESS : BOOLEAN;

VAR
    I   : INTEGER;

BEGIN

    { +
    Assume success.
    - }
    FOST_PROCESS          := TRUE;

    CASE QTAB_OFFSET OF

        { +
        These are boolean_answer questions.
        - }
        EDF$K_CONFIRM,
        EDF$K_KEY_DUPS,
        EDF$K_SEGMENTED,
        EDF$K_BLOCK_SPAN,
        EDF$K_GLOBAL_WANTED,
        EDF$K_ASCENDING_LOAD,
        EDF$K_ASCENDING_ADDED,
        EDF$K_KEY_COMP_WANTED,
        EDF$K_REC_COMP_WANTED,
        EDF$K_IDX_COMP_WANTED :

        BEGIN

            QUERY_FLAG           := (INPUT_VALUE = EDF$K_YES);
            BDATA[QTAB_OFFSET]   := QUERY_FLAG;

        END;    { BOOLEAN_ANSWER }

        { +
        Generalized answer storage for keyword answers.
        - }
        EDF$K_LOAD_METHOD,
        EDF$K_DESIGN_CYCLE,
        EDF$K_SET_FUNCTION,
        EDF$K_GRANULARITY,
        EDF$K_RESPONSES,
        EDF$K_KEY_TYPE,
        EDF$K_CARR_CTRL :

            IDATA[QTAB_OFFSET]          := INPUT_VALUE;

        { +
        Make the new default whatever the user answers.
        - }
        EDF$K_NUMBER_KEYS,
        EDF$K_SURFACE_OPTION,
        EDF$K_BUCKET_WEIGHT :

        BEGIN
    IDATA[QTAB_OFFSET]          := INPUT_VALUE;
    QTAB[QTAB_OFFSET].DEFAULT   := INPUT_VALUE;

END;

EDF$K_ANALYSIS :

BEGIN

    ANALYSIS_FILENAME_DESC      := NULL_STRING;
    LIB$SCOPY_DXDX (SDATA[EDF$K_ANALYSIS],ANALYSIS_FILENAME_DESC);
    ANALYSIS_SPECIFIED          := TRUE;

END;

EDF$K_SET_OUTPUT :

BEGIN

    OUTPUT_FILENAME_DESC        := NULL_STRING;
    LIB$SCOPY_DXDX (SDATA[EDF$K_OUTPUT],OUTPUT_FILENAME_DESC);

END;

EDF$K_PROMPTING :

BEGIN

    IDATA[QTAB_OFFSET]          := INPUT_VALUE;
    FULL_PROMPT                 := (INPUT_VALUE = EDF$K_FULL);

END;

EDF$K_SCRIPT_OPTION :

BEGIN

    IDATA[QTAB_OFFSET]          := INPUT_VALUE;

    ISAM_ORG    := (INPUT_VALUE IN [ EDF$K_IDX_DESIGN_FDL,
                        EDF$K_ADD_KEY_FDL, EDF$K_DELETE_KEY_FDL,
                        EDF$K_REDESIGN_FDL, EDF$K_OPTIMIZE_FDL ]);

END;    { SCRIPT_OPTION }

{ +
These are the real_answer questions.
- }
EDF$K_DATA_KEY_COMP,
EDF$K_DATA_RECORD_COMP,
EDF$K_INDEX_RECORD_COMP :

BEGIN

    { +
    Make sure we aren't fooled.
    - }
    IF ABS (IDATA[QTAB_OFFSET]) > 99 THEN

        IDATA[QTAB_OFFSET]      := 0;

    RDATA[QTAB_OFFSET]  := IDATA[QTAB_OFFSET];
    RDATA[QTAB_OFFSET]  := RDATA[QTAB_OFFSET] / 100.0;

END;    { EDF$K_DATA_KEY_COMP }

EDF$K_RETURN :

BEGIN

    IF NOT AUTO_TUNE THEN

    BEGIN

        { +
        Now that he's answered, clear his screen.
        - }
        IF REGIS THEN

            WRITELN (''(27)'Pp;S(E);'(27)'\');

        LIB$ERASE_PAGE (LINE_ONE,COL_ONE);

    END;        { IF NOT AUTO_TUNE }

END;    { EDF$K_RETURN }

EDF$K_GLOBAL_COUNT :

BEGIN

    { +
    GLOBAL_SET is true if GLOBAL_COUNT is set from the
    definition linked list.
    - }
    IF NOT GLOBAL_SET THEN

    BEGIN

        { +
        See how many global buffers would map the entire key 0
        index, plus the roots of all the alternate
        keys, plus 5 data buckets. (why 5? it sounds good...)
        If a level has more than 512 buckets, only 512 are counted.
        (let's not get ridiculous here)
        - }
        PRIMARY_INDEX_BUCKETS   := 0;

        FOR I := 1 TO 31 DO

        BEGIN

            IF INIT_PRIMARY_BUCKETS [I] > 512 THEN

```

```
                INIT_PRIMARY_BUCKETS [I]         := 512;

            IF ADDED_PRIMARY_BUCKETS [I] > 512 THEN

                ADDED_PRIMARY_BUCKETS [I]        := 512;

            PRIMARY_INDEX_BUCKETS        := PRIMARY_INDEX_BUCKETS
                                            + INIT_PRIMARY_BUCKETS [I]
                                            + ADDED_PRIMARY_BUCKETS [I];

        END;

        { +
        4 is added instead of 5 so we don't have to use
        (idata[edf$K_number_keys]-1) for the number of alternate keys.
        - }
        IDATA[EDF$K_GLOBAL_COUNT]        := PRIMARY_INDEX_BUCKETS +
                                         IDATA[EDF$K_NUMBER_KEYS] + 4;

    END;

    { +
    Up to an RMS maximum.
    - }
    IF IDATA[EDF$K_GLOBAL_COUNT] > EDF$C_MAX_GBL_BUFS THEN

        IDATA[EDF$K_GLOBAL_COUNT]        := EDF$C_MAX_GBL_BUFS;

END;    { EDF$K_GLOBAL_COUNT }

EDF$K_NUMBER_RECORDS :

    IDATA[EDF$K_INITIAL_COUNT]  := IDATA[QTAB_OFFSET];

EDF$K_KEY_POSITION :

    SEGMENT_POSITION[SEGMENT_NUMBER] := IDATA[QTAB_OFFSET];

EDF$K_KEY_SIZE :

BEGIN

    SEGMENT_WANTED[SEGMENT_NUMBER] := (IDATA[EDF$K_KEY_SIZE] > 0);
    SEGMENT_LENGTH[SEGMENT_NUMBER] := IDATA[QTAB_OFFSET];

END;

EDF$K_CONTROL_SIZE :

    CUR_MAX_REC         := CUR_MAX_REC - IDATA[QTAB_OFFSET];

EDF$K_NUMBER_DUPS :

    IF IDATA[QTAB_OFFSET] < 0 THEN

        IDATA[QTAB_OFFSET]      := 0;
```

```
          EDF$K_PROLOGUE_VERSION :

          BEGIN

              IF IDATA[EDF$K_PROLOGUE_VERSION] < 3 THEN

              BEGIN

                  RDATA[EDF$K_DATA_RECORD_COMP]     := 0.0;
                  RDATA[EDF$K_DATA_KEY_COMP]        := 0.0;
                  RDATA[EDF$K_INDEX_RECORD_COMP]    := 0.0;

              END;

          END;      { EDF$K_PROLOGUE_VERSION }

          EDF$K_KEY_LOW,
          EDF$K_ADDED_COUNT_LOW,
          EDF$K_INITIAL_COUNT_LOW,
          EDF$K_SIZE_LOW,
          EDF$K_FILL_LOW :

          BEGIN

              IDATA[EDF$K_Y_LOW]                    := IDATA[QTAB_OFFSET];
              QTAB[QTAB_OFFSET+1].LOW_BOUND         := IDATA[QTAB_OFFSET];

          END;

          EDF$K_KEY_HIGH,
          EDF$K_FILL_HIGH,
          EDF$K_SIZE_HIGH,
          EDF$K_ADDED_COUNT_HIGH,
          EDF$K_INITIAL_COUNT_HIGH :

          BEGIN

              IDATA[EDF$K_Y_HIGH]           := IDATA[QTAB_OFFSET];

              CASE QTAB_OFFSET OF

                  EDF$K_FILL_HIGH :         SPREAD_LOW_HIGH (50,100);

                  EDF$K_SIZE_HIGH :         SPREAD_LOW_HIGH (1,CUR_MAX_REC);

                  EDF$K_KEY_HIGH,
                  EDF$K_ADDED_COUNT_HIGH,
                  EDF$K_INITIAL_COUNT_HIGH :        SPREAD_LOW_HIGH (1,MAXINT-1);

              OTHERWISE

                  { NULL-STATEMENT } ;

              END;          { CASE }

          END;
```

```
        EDF$K_DESIRED_FILL :

            IDATA[EDF$K_FDL_FILL]       := IDATA[EDF$K_DESIRED_FILL];

        EDF$K_CURRENT_FUNCTION :

        BEGIN

            IDATA[QTAB_OFFSET]          := INPUT_VALUE;

            { +
            Reset the script pointer (only auto-invoke on 1st entry).
            - }
            IDATA[EDF$K_SCRIPT_OPTION]  := EDF$K_ZERO_SCRIPT;

            { +
            Reset the ^Z flag.
            - }
            MAIN_LEVEL                  := FALSE;

        END;    { EDF$K_CURRENT_FUNCTION }

        EDF$K_RECORD_FORMAT :

        BEGIN

            { +
            The IDATA[EDF$K_RECORD_FORMAT] variable was set in VERIFY_PROCESS.
            - }

            { +
            Set a convenience boolean.
            - }
            VARIABLE_RECORDS    := (
                                    (IDATA[EDF$K_RECORD_FORMAT] <> FDL$C_FIX)
                                    AND
                                    (IDATA[EDF$K_RECORD_FORMAT] <> FDL$C_UDF)
                                    );

        END;    { EDF$K_RECORD_FORMAT }

        EDF$K_TEST_PRIMARY :

        BEGIN

            IF ACTIVE_PRIMARY = AREA THEN

                ACTIVE_AREA             := INPUT_NUMBER

            ELSE IF ACTIVE_PRIMARY = KEY THEN

                IDATA[EDF$K_ACTIVE_KEY] := INPUT_NUMBER;

        END;    { EDF$K_TEST_PRIMARY }

    OTHERWISE

```

```
                { NULL-STATEMENT } ;

            END;        { CASE }

        END;    { POST_PROCESS }
```

```
{ ++

QUERY -- Routine to control the asking of questions.

This function processes the QTAB table, and interacts with the user.

CALLING SEQUENCE:

status := QUERY (QTAB-OFFSET-VALUE);

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

none

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$OUTPUT:

ROUTINES CALLED:

WRITE_QUESTION
WRITE_HELP
PRE_PROCESS
VERIFY_PROCESS
POST_PROCESS

ROUTINE VALUE:

TRUE if answer was yes, FALSE otherwise

SIGNALS:

none

SIDE EFFECTS:


-- }
```

```
[GLOBAL] FUNCTION QUERY (OFFSET : INTEGER) : BOOLEAN;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Special for top level query.
        - }
        IF QTAB_OFFSET = EDF$K_CURRENT_FUNCTION THEN

        BEGIN

            MAIN_LEVEL              := TRUE;
            MAIN_CTRLZ              := FALSE;
            CONTROL_ZEE_TYPED       := FALSE;

        END;     { IF TRUE QTAB_OFFSET = EDF$K_CURRENT_FUNCTION }

        { +
        Setup to catch bad user input.
        - }
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        IF NOT AUTO_TUNE THEN

        BEGIN

            IF TEMP_FULL_PROMPT THEN

                WRITE_HELP;

            WRITE_QUESTION;

        END;

        CASE QTAB[QTAB_OFFSET].ANSWER_CLASS OF

            STRING_ANSWER :

            BEGIN

                SDATA[QTAB_OFFSET]      := NULL_STRING;

                IF (
                (
                (TAKE_DEFAULTS)
                AND
                (IDATA[EDF$K_RESPONSES] = EDF$K_AUTO)
                )
                OR
                (AUTO_TUNE)
                ) THEN

                BEGIN
            IF NOT AUTO_TUNE THEN

                LIB$WAIT (0.7);

        END

        ELSE

        BEGIN

            IF EOF (INPUT) THEN

            BEGIN

                RESET (INPUT);
                LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

            END;

            READLN (TEMP_STRING255);
            STR$TRIM (SDATA[QTAB_OFFSET],TEMP_STRING255);
            LIB$SCOPY_DXDX (SDATA[QTAB_OFFSET],INPUT_DESC);
            PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
            PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

        END;

        IF NOT AUTO_TUNE THEN

            WRITELN (CRLF);

        { +
        If we're journaling our input, save a copy of it to the
        journal file.
        - }
        IF JOURNAL_ENABLED THEN

            IF SDATA[QTAB_OFFSET].DSC$W_LENGTH > 0 THEN

                WRITELN (
                    JOURNAL_FILE,
                    SDATA[QTAB_OFFSET].DSC$A_POINTER^:
                        SDATA[QTAB_OFFSET].DSC$W_LENGTH
                    )

            ELSE

                WRITELN (JOURNAL_FILE);

    END;        { STRING_ANSWER }

    REAL_ANSWER,        { Actually, real_answer = integer percentage }
    INTEGER_ANSWER :

    BEGIN

        NUMBER_INPUT (
                    IDATA[QTAB_OFFSET],
                    QTAB[QTAB_OFFSET].DEFAULT_OK,
                    QTAB[QTAB_OFFSET].DEFAULT);

            { +
            Max record size of 0 is one case where it's OK to
            specify an answer that's out of the low-high range.
            - }
            IF (
            (
                (QTAB_OFFSET = EDF$K_MAX_RECORD_SIZE)
                AND
                (IDATA[EDF$K_SCRIPT_OPTION] <> EDF$K_REL_DESIGN_FDL)
                AND
                (IDATA[QTAB_OFFSET] = 0)
            )
            OR
            (
                (BDATA[EDF$K_SEGMENTED])
                AND
                (SEGMENT_NUMBER <> 0)
                AND
                (QTAB_OFFSET = EDF$K_KEY_SIZE)
                AND
                (IDATA[QTAB_OFFSET] = 0)
            )
            ) THEN

            BEGIN

                { NULL-STATEMENT } ;

            END

            ELSE

            BEGIN

                IF (
                (IDATA[QTAB_OFFSET] < QTAB[QTAB_OFFSET].LOW_BOUND)
                OR
                (IDATA[QTAB_OFFSET] > QTAB[QTAB_OFFSET].HIGH_BOUND)
                ) THEN

                    LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

            END;

        END;        { REAL_ANSWER,INTEGER_ANSWER }

        BOOLEAN_ANSWER,
        KEYWORD_ANSWER :

        BEGIN

            PARSE_INPUT (
                    QTAB[QTAB_OFFSET].KEY_TABLE,
                QTAB[QTAB_OFFSET].STATE_TABLE,
                QTAB[QTAB_OFFSET].DEFAULT_OK,
                QTAB[QTAB_OFFSET].DEFAULT);

    END;        { BOOLEAN_ANSWER, KEYWORD_ANSWER }

    NO_ANSWER :

    BEGIN

        { +
        When the user just types <CR>, then accept anything.
        - }
        IF AUTO_TUNE THEN

        BEGIN

            { NULL-STATEMENT } ;

        END

        ELSE

        BEGIN

            IF EOF (INPUT) THEN

            BEGIN

                RESET (INPUT);
                LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

            END;

            READLN;

            IF JOURNAL_ENABLED THEN

                WRITELN (JOURNAL_FILE);

        END;

    END;        { NO_ANSWER }

    OBJECT_ANSWER :

        { T.B.S. } ;

OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

{ +
Do some initial checking of the answer.
- }
```

```
        IF NOT VERIFY_PROCESS THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        { +
        Make sure this is true for only one cycle.
        - }
        TEMP_FULL_PROMPT        := FALSE;

    END;        { THE_QUESTION }
```

```
BEGIN

    { +
    Make which question we're on widely known.
    - }
    QTAB_OFFSET         := OFFSET;

    IF PRE_PROCESS THEN

    BEGIN

        { +
        Keep at it until the user gets it right.
        - }
        REPEAT

            THE_QUESTION;

        UNTIL NOT SYS$INPUT_ERROR;

        STR$FREE1_DX (INPUT_DESC);

    END;        { IF TRUE PRE_PROCESS }

    { +
    If this question has a valid answer, flag it so.
    - }
    IF POST_PROCESS THEN

        VDATA[QTAB_OFFSET]       := TRUE;

    { +
    Set the output function value.
    - }
    QUERY       := QUERY_FLAG;

END;    { QUERY }
```

```
{ ++

ASK_KEY_DUPS -- Query the user.

This routine asks the user if he wants duplicates on his key.
If he does, then it asks him how many.

CALLING SEQUENCE:

ASK_KEY_DUPS;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR
SYS$INPUT:

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

BDATA[EDF$K_NUMBER_DUPS]
BDATA[EDF$K_KEY_DUPS]

ROUTINES CALLED:

none

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_DUPS;

BEGIN

    IF QUERY (EDF$K_KEY_DUPS) THEN

        QUERY (EDF$K_NUMBER_DUPS)

    ELSE

        IDATA[EDF$K_NUMBER_DUPS]        := 0;

END;    { ASK_KEY_DUPS }
```

```
{ ++

ASK_GLOBAL_WANTED -- Query the user.

This routine asks the user if he wants Global Buffers, and if he does, then
it asks him how many.

CALLING SEQUENCE:

ASK_GLOBAL_WANTED;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_GLOBAL_COUNT]
BDATA[EDF$K_GLOBAL_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_GLOBAL_WANTED)
QUERY (EDF$K_GLOBAL_COUNT)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_GLOBAL_WANTED;

BEGIN

    { +
    If we want Global Buffers, see how many.
    - }
    IF QUERY (EDF$K_GLOBAL_WANTED) THEN

        QUERY (EDF$K_GLOBAL_COUNT)

    ELSE

        IDATA[EDF$K_GLOBAL_COUNT]        := 0;

END;    { ASK_GLOBAL_WANTED }
```

```
{ ++

ASK_KEY_COMP -- Query the user.

This routine asks the user if he wants key compression and if he does, then
it finds out what the compression was.

CALLING SEQUENCE:

ASK_KEY_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_DATA_KEY_COMP]
BDATA[EDF$K_KEY_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_KEY_COMP_WANTED)
QUERY (EDF$K_DATA_KEY_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_COMP;

BEGIN

    { +
    If we want compression. See what it is.
    - }
    IF QUERY (EDF$K_KEY_COMP_WANTED) THEN

        QUERY (EDF$K_DATA_KEY_COMP)

    ELSE

        RDATA[EDF$K_DATA_KEY_COMP]        := 0.0;

END;    { ASK_KEY_COMP }
```

```
{ ++

ASK_REC_COMP -- Query the user.

This routine asks the user if he wants record compression, and if he does, then
it finds out how much there is.

CALLING SEQUENCE:

ASK_REC_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_DATA_RECORD_COMP]
BDATA[EDF$K_REC_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_REC_COMP_WANTED)
QUERY (EDF$K_DATA_RECORD_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
        PROCEDURE ASK_REC_COMP;

        BEGIN

            { +
            If we want compression. See what it is.
            - }
            IF QUERY (EDF$K_REC_COMP_WANTED) THEN

                QUERY (EDF$K_DATA_RECORD_COMP)

            ELSE

                RDATA[EDF$K_DATA_RECORD_COMP]   := 0.0;

        END;    { ASK_REC_COMP }
```

```
{ ++

ASK_IDX_COMP -- Query the user.

This routine asks the user if he wants index compression and if he does, then
it finds out how much there is.

CALLING SEQUENCE:

ASK_IDX_COMP;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

RDATA[EDF$K_INDEX_RECORD_COMP]
BDATA[EDF$K_IDX_COMP_WANTED]

ROUTINES CALLED:

QUERY (EDF$K_IDX_COMP_WANTED)
QUERY (EDF$K_INDEX_RECORD_COMP)

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_IDX_COMP;

BEGIN

    { +
    If we want compression. See what it is.
    - }
    IF QUERY (EDF$K_IDX_COMP_WANTED) THEN

        QUERY (EDF$K_INDEX_RECORD_COMP)

    ELSE

        RDATA[EDF$K_INDEX_RECORD_COMP]  := 0.0;

END;    { ASK_IDX_COMP }
```

```
{ ++

ASK_MEAN_RECORD_SIZE -- Query the user.

This routine asks about the user's record size. (plus max_rec, and control_size)

CALLING SEQUENCE:

ASK_MEAN_RECORD_SIZE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_MEAN_RECORD_SIZE]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_MEAN_RECORD_SIZE;

BEGIN

    { +
    This question shouldn't be asked for alternate keys. Unless redesigning,
    and we don't already have a value for it.
    - }
    IF (
    (NOT ISAM_ORG)
    OR
    (ISAM_ORG AND (IDATA[EDF$K_ACTIVE_KEY] = 0))
    OR
    (NOT VDATA[EDF$K_MEAN_RECORD_SIZE])
    ) THEN

    BEGIN

        { +
        Ask the question we're here for.
        - }
        QUERY (EDF$K_MEAN_RECORD_SIZE);

        { +
        Get (or set) the other record size parameter.

        THE CONTROL_SIZE QUESTION MUST CCME BEFORE THE MAX_RECORD_SIZE
        QUESTION!

        - }
        IF IDATA[EDF$K_RECORD_FORMAT] = FDL$C_VFC THEN

            QUERY (EDF$K_CONTROL_SIZE);

        IF VARIABLE_RECORDS THEN

            QUERY (EDF$K_MAX_RECORD_SIZE)

        ELSE

            IDATA[EDF$K_MAX_RECORD_SIZE] := IDATA[EDF$K_MEAN_RECORD_SIZE];

    END;

END;    { ASK_MEAN_RECORD_SIZE }
```

```
{ ++

ASK_KEY_SIZE -- Query the user.

This routine asks about the user's key size.

CALLING SEQUENCE:

ASK_KEY_SIZE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_KEY_SIZE]
SEGMENT_LENGTH[0..7]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_SIZE;

VAR
    I   : INTEGER;

BEGIN

    IF BDATA[EDF$K_SEGMENTED] THEN

    BEGIN

        SEGMENT_NUMBER  := 0;

        REPEAT

            QUERY (EDF$K_KEY_SIZE);

            SEGMENT_NUMBER      := SEGMENT_NUMBER + 1;

        UNTIL (IDATA[EDF$K_KEY_SIZE] = 0) OR (SEGMENT_NUMBER > 7);

        IF IDATA[EDF$K_KEY_SIZE] = 0 THEN

        BEGIN

            FOR I := SEGMENT_NUMBER TO 7 DO

                SEGMENT_WANTED[I]       := FALSE;

        END;

        IDATA[EDF$K_KEY_SIZE]    := SEGMENT_LENGTH[0];

    END

    ELSE

        QUERY (EDF$K_KEY_SIZE);

END;    { ASK_KEY_SIZE }
```

```
{ ++

ASK_KEY_POSITION -- Query the user.

This routine asks about the user's key position.

CALLING SEQUENCE:

ASK_KEY_POSITION;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT_ERROR

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

IDATA[EDF$K_KEY_POSITION]
SEGMENT_POSITION[0..7]
SYS$INPUT_ERROR

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_KEY_POSITION;

BEGIN

    IF BDATA[EDF$K_SEGMENTED] THEN

    BEGIN

        FOR SEGMENT_NUMBER := 0 TO 7 DO

        BEGIN

            IF SEGMENT_WANTED[SEGMENT_NUMBER] THEN

                QUERY (EDF$K_KEY_POSITION);

        END;

        IDATA[EDF$K_KEY_POSITION]       := SEGMENT_POSITION[0];

    END

    ELSE

        QUERY (EDF$K_KEY_POSITION);

END;    { ASK_KEY_POSITION }
```

```
{ ++

ASK_TEST_SECONDARY -- Get the user's choice of secondary.

This routine queries the user.

CALLING SEQUENCE:

ASK_TEST_SECONDARY

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

CRLF
TAB
SYS$INPUT_ERROR
SYS$INPUT:

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$OUTPUT:

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_TEST_SECONDARY;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Set up to catch bad user input.
        - }
        EDF$GL_SECNUM   := 0;
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        CASE ACTIVE_PRIMARY OF

              IDENT :

                INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }

            TITLE :

                INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }
```

```
ACCESS :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                    ' Legal ACCESS',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BLOCK_IO               yes/no',
                    CRLF_SHIFT,
                    'DELETE                 yes/no',
                    CRLF_SHIFT,
                    'GET                    yes/no',
                    CRLF_SHIFT,
                    'PUT                    yes/no',
                    CRLF_SHIFT,
                    'RECORD_IO              yes/no',
                    CRLF_SHIFT,
                    'TRUNCATE               yes/no',
                    CRLF_SHIFT,
                    'UPDATE                 yes/no',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                    ' Current ACCESS',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter ACCESS Attribute          (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_ACCESS_TABLE_KEY),
                IADDRESS (EDF$AB_ACCESS_TABLE_STA),
                FALSE,
                0
                );

END;        { ACCESS }
```

```
(* Here starts the comment to exclude ACLS *)
(*          ACL :

            BEGIN

                    IF FULL_CHOICE THEN

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

                                WRITELN (SHIFT,'               ',ANSI_REVERSE,
                                ' Legal ACL',SEC_ATTR,
                                ANSI_RESET,CRLF,
                                CRLF,SHIFT,
                                'ENTRY                  string',
                                CRLF);
*)
(*                          END*){ IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }
(*
                            ELSE

                                WRITELN (SHIFT,QUES_HINT);

                        END

                ELSE

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

                                WRITELN (SHIFT,'               ',ANSI_REVERSE,
                                ' Current ACL',SEC_ATTR,
                                ANSI_RESET,CRLF);
*)
                                { +
                                Setup to display definition on the terminal.
                                - }
(*                              OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                                        RECORD_LENGTH := 252);
                                REWRITE (FDL_DEST);

                                SHOW_PRIMARY_SECTION (TEST);

                                CLOSE (FDL_DEST);
*)
(*                          END*){ IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }
(*
                            ELSE

                                WRITELN (SHIFT,QUES_HINT);

                        END;*)  { EXTANT_ONLY }

{ +
    THIS CAN BE OPTIMIZED IN THE FUTURE - GIVEN THAT THE ACL PRIMARY HAS ONLY
    ONE KIND OF SECONDARY:   ''ENTRY''
- }
(*
                WRITE (SHIFT,'Enter ACL Attribute               (Keyword)',
                ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
                PARSE_INPUT (
                            IADDRESS (EDF$AB_ACL_TABLE_KEY),
                            IADDRESS (EDF$AB_ACL_TABLE_STA),
                            FALSE,
                            0
                            );

            END;*)      { ACL }

```

```
ANALYSIS_OF_AREA :

    INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }

ANALYSIS_OF_KEY :

    INPUT_VALUE     := 0;   { DUMMY_SECONDARY$ }
```

```
AREA :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                           ',ANSI_REVERSE,
                    ' Legal AREA ',ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
                    SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'ALLOCATION             number',
                    CRLF_SHIFT,
                    'BEST_TRY_CONTIGUOUS    yes/no',
                    CRLF_SHIFT,
                    'BUCKET_SIZE            number',
                    CRLF_SHIFT,
                    'CONTIGUOUS             yes/no',
                    CRLF_SHIFT,
                    'EXACT_POSITIONING      yes/no',
                    CRLF_SHIFT,
                    'EXTENSION              number',
                    CRLF_SHIFT,
                    'POSITION    qualifier  number',
                    CRLF_SHIFT,
                    'VOLUME                 number',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                           ',ANSI_REVERSE,
                    ' Current AREA ',
                    ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
                    SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter AREA ',ACTIVE_AREA:NUM_LEN(ACTIVE_AREA),
    ' Attribute            (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_AREA_TABLE_KEY),
                IADDRESS (EDF$AB_AREA_TABLE_STA),
                FALSE,
                0
                );

END;        { AREA }
```

```
            CONNECT :

            BEGIN

                     IF FULL_CHOICE THEN

                         BEGIN

                             CLEAR (IF_FULL_PROMPT);

                             IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                             BEGIN

WRITELN (SHIFT,'                 ',ANSI_REVERSE,
' Legal CONNECT',SEC_ATTR,
ANSI_RESET,CRLF,
CRLF_SHIFT,
'ASYNCHRONOUS            yes/no  NOLOCK                   yes/no',
CRLF_SHIFT,
'BLOCK_IO                yes/no  NONEXISTENT_RECORD       yes/no',
CRLF_SHIFT,
'BUCKET_CODE             number  READ_AHEAD               yes/no',
CRLF_SHIFT,
'CONTEXT                         number  READ_REGARDLESS          yes/no',
CRLF_SHIFT,
'END_OF_FILE             yes/no  TIMEOUT_ENABLE           yes/no',
CRLF_SHIFT,
'FAST_DELETE             yes/no  TIMEOUT_PERIOD           number',
CRLF_SHIFT,
'FILL_BUCKETS            yes/no  TRUNCATE_ON_PUT          yes/no',
CRLF_SHIFT,
'KEY_GREATER_EQUAL       yes/no  TT_CANCEL_CONTROL_O      yes/no',
CRLF_SHIFT,
'KEY_GREATER_THAN        yes/no  TT_PROMPT                yes/no',
CRLF_SHIFT,
'KEY_LIMIT               yes/no  TT_PURGE_TYPE_AHEAD      yes/no',
CRLF_SHIFT,
'KEY_OF_REFERENCE        number  TT_READ_NOECHO           yes/no',
CRLF_SHIFT,
'LOCATE_MODE             yes/no  TT_READ_NOFILTER         yes/no',
CRLF_SHIFT,
'LOCK_ON_READ            yes/no  TT_UPCASE_INPUT          yes/no',
CRLF_SHIFT,
'LOCK_ON_WRITE           yes/no  UPDATE_IF                yes/no',
CRLF_SHIFT,
'MANUAL_UNLOCKING        yes/no  WAIT_FOR_RECORD          yes/no',
CRLF_SHIFT,
'MULTIBLOCK_COUNT        number  WRITE_BEHIND             yes/no',
CRLF_SHIFT,
'MULTIBUFFER_COUNT       number',
CRLF
);

                             END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                             ELSE
```

```
                    WRITELN (SHIFT,QUES_HINT);

                END

            ELSE

                BEGIN

                    CLEAR (IF_FULL_PROMPT);

                    IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                    BEGIN

                        WRITELN (SHIFT,'        ',ANSI_REVERSE,
                        ' Current CONNECT',SEC_ATTR,
                        ANSI_RESET,CRLF);

                        { +
                        Setup to display definition on the terminal.
                        - }
                        OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                                RECORD_LENGTH := 252);
                        REWRITE (FDL_DEST);

                        SHOW_PRIMARY_SECTION (TEST);

                        CLOSE (FDL_DEST);

                    END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                    ELSE

                        WRITELN (SHIFT,QUES_HINT);

                END;    { EXTANT_ONLY }

            WRITE (SHIFT,'Enter CONNECT Attribute     (Keyword)',
            ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
            PARSE_INPUT (
                    IADDRESS (EDF$AB_CONNECT_TABLE_KEY),
                    IADDRESS (EDF$AB_CONNECT_TABLE_STA),
                    FALSE,
                    0
                    );

        END;        { CONNECT }
```

```
DATE :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Legal DATE',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BACKUP                 string',
                    CRLF_SHIFT,
                    'CREATION               string',
                    CRLF_SHIFT,
                    'EXPIRATION             string',
                    CRLF_SHIFT,
                    'REVISION               string',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                ',ANSI_REVERSE,
                    ' Current DATE',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter DATE Attribute               (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_DATE_TABLE_KEY),
                IADDRESS (EDF$AB_DATE_TABLE_STA),
                FALSE,
                0
                );

END;          { DATE }
```

```
             FILES$ :

             BEGIN

                      IF FULL_CHOICE THEN

                          BEGIN

                               CLEAR (IF_FULL_PROMPT);

                               IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                               BEGIN

WRITELN (SHIFT,'                   ',ANSI_REVERSE,
' Legal FILE',SEC_ATTR,
ANSI_RESET,CRLF,CRLF_SHIFT,
'ALLOCATION               number   MT_PROTECTION             char/num',
CRLF_SHIFT,
'BEST_TRY_CONTIGUOUS      yes/no   NAME                      string',
CRLF_SHIFT,
'BUCKET_SIZE              number   NOBACKUP                  yes/no',
CRLF_SHIFT,
'CLUSTER_SIZE             number   NON_FILE_STRUCTURED       yes/no',
CRLF_SHIFT,
'CONTEXT                           number   ORGANIZATION              keyword',
CRLF_SHIFT,
'CONTIGUOUS               yes/no   OUTPUT_FILE_PARSE         yes/no',
CRLF_SHIFT,
'CREATE_IF                yes/no   OWNER                     uic',
CRLF_SHIFT,
'DEFAULT_NAME             string   PRINT_ON_CLOSE            yes/no',
CRLF_SHIFT,
'DEFERRED_WRITE           yes/no   PROTECTION                yes/no',
CRLF_SHIFT,
'DELETE_ON_CLOSE                   yes/no   READ_CHECK                yes/no',
CRLF_SHIFT,
'DIRECTORY_ENTRY                   yes/no   REVISION                  number',
CRLF_SHIFT,
'EXTENSION                number   SEQUENTIAL_ONLY           yes/no',
CRLF_SHIFT,
'GLOBAL_BUFFER_COUNT      number   SUBMIT_ON_CLOSE           yes/no',
CRLF_SHIFT,
'MAX_RECORD_NUMBER        number   SUPERSEDE                 yes/no',
CRLF_SHIFT,
'MAXIMIZE_VERSION         yes/no   TEMPORARY                 yes/no',
CRLF_SHIFT,
'MT_BLOCK_SIZE            number   TRUNCATE_ON_CLOSE         yes/no',
CRLF_SHIFT,
'MT_CLOSE_REWIND                   yes/no   USER_FILE_OPEN            yes/no',
CRLF_SHIFT,
'MT_CURRENT_POSITION      yes/no   WINDOW_SIZE               number',
CRLF_SHIFT,
'MT_NOT_EOF               yes/no   WRITE_CHECK               yes/no',
CRLF
);

```

```
                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                            ',ANSI_REVERSE,
                    ' Current FILE',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter FILE Attribute              (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_FILE_TABLE_KEY),
                IADDRESS (EDF$AB_FILE_TABLE_STA),
                FALSE,
                0
                );

END;        { FILE }
```

```
JOURNAL :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'               ',ANSI_REVERSE,
                    ' Legal JOURNAL',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'AFTER_IMAGE            yes/no',
                    CRLF_SHIFT,
                    'AFTER_NAME             string',
                    CRLF_SHIFT,
                    'AUDIT_TRAIL            yes/no',
                    CRLF_SHIFT,
                    'AUDIT_NAME             string',
                    CRLF_SHIFT,
                    'BEFORE_IMAGE           yes/no',
                    CRLF_SHIFT,
                    'BEFORE_NAME            string',
                    CRLF_SHIFT,
                    'RECOVERY_UNIT          keyword',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                BEGIN

                    WRITELN (SHIFT,QUES_HINT);

                END;

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'               ',ANSI_REVERSE,
                    ' Current JOURNAL',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter JOURNAL Attribute           (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_JOURNAL_TABLE_KEY),
                IADDRESS (EDF$AB_JOURNAL_TABLE_STA),
                FALSE,
                0
                );

END;        { JOURNAL }
```

```
            KEY :

            BEGIN

                    IF FULL_CHOICE THEN

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                            BEGIN

WRITELN (SHIFT,'                ',ANSI_REVERSE,
' Legal KEY',
IDATA[EDF$K_ACTIVE_KEY]:3,
SEC_ATTR,
ANSI_RESET,CRLF,
CRLF_SHIFT,
'CHANGES                          yes/no  LEVEL1_INDEX_AREA       number',
CRLF_SHIFT,
'DATA_AREA              number  NAME                    string',
CRLF_SHIFT,
'DATA_FILL              number  NULL_KEY                yes/no',
CRLF_SHIFT,
'DATA_KEY_COMPRESSION   yes/no  NULL_VALUE              char/num',
CRLF_SHIFT,
'DATA_RECORD_COMPRESSION          yes/no  POSITION                number',
CRLF_SHIFT,
'DUPLICATES             yes/no  PROLOG                  number',
CRLF_SHIFT,
'INDEX_AREA             number  TYPE                    keyword',
CRLF_SHIFT,
'INDEX_COMPRESSION      yes/no  SEGn_LENGTH             number',
CRLF_SHIFT,
'INDEX_FILL             number  SEGn_POSITION           number',
CRLF_SHIFT,
'LENGTH                 number'{        SEGn_TYPE       keyword},
CRLF);

                            END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                            ELSE

                                  WRITELN (SHIFT,QUES_HINT);

                        END

                    ELSE

                        BEGIN

                            CLEAR (IF_FULL_PROMPT);

                            IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

```

```
                BEGIN

                    WRITELN (SHIFT,'                           ',ANSI_REVERSE,
                    ' Current KEY',
                    IDATA[EDF$K_ACTIVE_KEY]:3,
                    SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter KEY',
    IDATA[EDF$K_ACTIVE_KEY]:3,
    ' Attribute     (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_KEY_TABLE_KEY),
                IADDRESS (EDF$AB_KEY_TABLE_STA),
                FALSE,
                0
                );

END;        { KEY }
```

```
RECORDS$ :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                    ' Legal RECORD',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'BLOCK_SPAN               yes/no',
                    CRLF_SHIFT,
                    'CARRIAGE_CONTROL        keyword',
                    CRLF_SHIFT,
                    'CONTROL_FIELD_SIZE      number',
                    CRLF_SHIFT,
                    'FORMAT                  keyword',
                    CRLF_SHIFT,
                    'SIZE                    number',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                BEGIN

                    WRITELN (SHIFT,QUES_HINT);

                END;

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                    ' Current RECORD',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter RECORD Attribute                (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_RECORD_TABLE_KEY),
                IADDRESS (EDF$AB_RECORD_TABLE_STA),
                FALSE,
                0
                );

END;        { RECORD }
```

```
SHARING :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                      ' Legal SHARING',SEC_ATTR,
                      ANSI_RESET,CRLF,
                      CRLF_SHIFT,
                      'DELETE               yes/no',
                      CRLF_SHIFT,
                      'GET                  yes/no',
                      CRLF_SHIFT,
                      'MULTISTREAM          yes/no',
                      CRLF_SHIFT,
                      'PROHIBIT             yes/no',
                      CRLF_SHIFT,
                      'PUT                  yes/no',
                      CRLF_SHIFT,
                      'UPDATE               yes/no',
                      CRLF_SHIFT,
                      'USER_INTERLOCK       yes/no',
                      CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

    ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                  ',ANSI_REVERSE,
                      ' Current SHARING',SEC_ATTR,
                      ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END;    { EXTANT_ONLY }

    WRITE (SHIFT,'Enter SHARING Attribute          (Keyword)',
    ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_SHARING_TABLE_KEY),
                IADDRESS (EDF$AB_SHARING_TABLE_STA),
                FALSE,
                0
                );

END;        { SHARING }
```

```
SYSTEM :

BEGIN

        IF FULL_CHOICE THEN

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                        ',ANSI_REVERSE,
                    ' Legal SYSTEM',SEC_ATTR,
                    ANSI_RESET,CRLF,
                    CRLF_SHIFT,
                    'DEVICE                 string',
                    CRLF_SHIFT,
                    'SOURCE                 keyword',
                    CRLF_SHIFT,
                    'TARGET                 keyword',
                    CRLF);

                END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                ELSE

                    WRITELN (SHIFT,QUES_HINT);

            END

        ELSE

            BEGIN

                CLEAR (IF_FULL_PROMPT);

                IF FULL_PROMPT OR TEMP_FULL_PROMPT THEN

                BEGIN

                    WRITELN (SHIFT,'                        ',ANSI_REVERSE,
                    ' Current SYSTEM',SEC_ATTR,
                    ANSI_RESET,CRLF);

                    { +
                    Setup to display definition on the terminal.
                    - }
                    OPEN    (FDL_DEST,SYS$OUTPUT_NAME,NEW,
                            RECORD_LENGTH := 252);
                    REWRITE (FDL_DEST);

                    SHOW_PRIMARY_SECTION (TEST);

                    CLOSE (FDL_DEST);
```

```
                        END { IF FULL_PROMPT OR TEMP_FULL_PROMPT TRUE }

                        ELSE

                            WRITELN (SHIFT,QUES_HINT);

                    END;    { EXTANT_ONLY }

            WRITE (SHIFT,'Enter SYSTEM Attribute             (Keyword)',
            ANSI_REVERSE,'[-]',ANSI_RESET,' : ');
            PARSE_INPUT (
                        IADDRESS (EDF$AB_SYSTEM_TABLE_KEY),
                        IADDRESS (EDF$AB_SYSTEM_TABLE_STA),
                        FALSE,
                        0
                        );

        END;        { SYSTEM }
```

```
OTHERWISE

    { NULL-STATEMENT } ;

END;    { CASE }

IF TEST.PRIMARY <> TITLE THEN

    TEST.OBJECT_TYPE    := SEC;

TEST.SECONDARY  := INPUT_VALUE::SECONDARY_TYPE;

{ +
Get the secondary number if there was one, it's inited to 0;
only SEGn_LENGTH,_POSITION,_TYPE set it.
Force seg_type to be last.
- }
IF TEST.SECONDARY = SEG_TYPE THEN

    TEST.SECNUM := 7

ELSE

    TEST.SECNUM := EDF$GL_SECNUM;

IF (
(TEST.SECNUM < 0)
OR
(TEST.SECNUM > 7)
) THEN

    LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

{ +
If we're only to ask for what exists, then make sure this does.
- }
IF NOT FULL_CHOICE THEN

BEGIN

    DEF_CURRENT         := DEF_HEAD;

    REPEAT

        IF NOT CURRENT_EQ_TEST(TEST,TRUE) THEN

            INCR_CURRENT;

    UNTIL (CURRENT_EQ_TEST(TEST,TRUE) OR (DEF_CURRENT^.FORE = NIL));

    IF DEF_CURRENT <> NIL THEN

    BEGIN

        IF NOT CURRENT_EQ_TEST(TEST,TRUE) THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);
```

```

                    END

                    ELSE

                            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

                END;    { IF DISPLAY = EXTANT_ONLY }

                { +
                Make sure this is true for only one cycle.
                - }
                TEMP_FULL_PROMPT        := FALSE;

            END;        { THE_QUESTION }

        BEGIN

            { +
            Keep at it until the user gets it right.
            - }
            REPEAT

                THE_QUESTION;

            UNTIL NOT SYS$INPUT_ERROR;

            STR$FREE1_DX (INPUT_DESC);

        END;    { ASK_TEST_SECONDARY }
```

```
{ ++

ASK_TEST_SECONDARY_VALUE -- Input the user's value for the secondary.

This routine queries the user about his secondary.

CALLING SEQUENCE:

ASK_TEST_SECONDARY_VALUE;

INPUT PARAMETERS:

none

IMPLICIT INPUTS:

SYS$INPUT:

OUTPUT PARAMETERS:

none

IMPLICIT OUTPUTS:

SYS$INPUT_ERROR
SYS$OUTPUT:

ROUTINES CALLED:

ESTABLISH

ROUTINE VALUE:

none

SIGNALS:

none

SIDE EFFECTS:

none

-- }
```

```
PROCEDURE ASK_TEST_SECONDARY_VALUE;

VAR
    I                       : INTEGER;
    TEMP_INT                : INTEGER;
    TEMP_DESC               : DESCRIPTOR;
    TEMP_MAX                : INTEGER;
    TEMP_STRING255          : STRING255;

    PROCEDURE THE_QUESTION;

    BEGIN

        { +
        Set up the condition handler to catch typing errors.
        - }
        SYS$INPUT_ERROR := FALSE;
        ESTABLISH (SYS$INPUT_COND_HANDLER);

        IF TEMP_FULL_PROMPT THEN

            WRITELN (SHIFT,
            'The value entered will be put into the Definition.');

        { +
        Pop the question.
        - }
        IF TEST.PRIMARY = DATE THEN

            WRITE (CRLF_SHIFT,
            '(dd-mmm-yyyy hh:mm:ss.cc)');

        IF TEST.SECONDARY = POSITION$ THEN

            WRITE (CRLF_SHIFT,
            '(Any_cylinder Cylinder File_ID File_name',
            CRLF_SHIFT,' Logical None Virtual)',CRLF_SHIFT,
            'Enter POSITION qualifier   (')

        ELSE IF NOT SEC_TYPE[TEST.SECONDARY].QUAL THEN

            WRITE (CRLF_SHIFT,'Enter value for this Secondary   (');

        IF SEC_TYPE[TEST.SECONDARY].QUAL THEN

        BEGIN

            CASE TEST.SECONDARY OF

                ORGANIZATION :

                    WRITE (CRLF_SHIFT,
                    '(Indexed Relative Sequential)');

                SOURCE,
                TARGET :

```

```
        WRITE (CRLF_SHIFT,
        '(IAS RSTS/E RSX-11M RSX-11M-PLUS RT-11 VAX/VMS)');

    RECOVERY_UNIT :

        WRITE (CRLF_SHIFT,
   '(If_in_recovery_unit Necessary_to_write Never_RU_journal None)');

    CARRIAGE_CONTROL :

        WRITE (CRLF_SHIFT,
        '(Carriage_return FORTRAN None Print)');

    FORMAT :

        WRITE (CRLF_SHIFT,
        '(Fixed Stream Stream_CR Stream_LF',CRLF_SHIFT,
        ' Undefined Variable VFC)');

    SEG_TYPE :

        WRITE (CRLF_SHIFT,
        '(Bin2 Bin4 Bin8 Decimal Int2 Int4 Int8 String)');

OTHERWISE

    { NULL-STATEMENT } ;

END;        { CASE }

WRITE (CRLF_SHIFT,'Enter value for this Secondary   (Keyword)',
ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');

CASE TEST.SECONDARY OF

    ORGANIZATION :

    PARSE_INPUT (
                  IADDRESS (EDF$AB_ORG_TABLE_KEY),
                  IADDRESS (EDF$AB_ORG_TABLE_STA),
                  FALSE,
                  0
                  );

    SOURCE,
    TARGET :

    PARSE_INPUT (
                  IADDRESS (EDF$AB_SOURCE_TABLE_KEY),
                  IADDRESS (EDF$AB_SOURCE_TABLE_STA),
                  FALSE,
                  0
                  );

    RECOVERY_UNIT :

    PARSE_INPUT (
                    IADDRESS (EDF$AB_RU_TABLE_KEY),
                    IADDRESS (EDF$AB_RU_TABLE_STA),
                    FALSE,
                    0
                    );

        CARRIAGE_CONTROL :

        PARSE_INPUT (
                    IADDRESS (EDF$AB_CARR_TABLE_KEY),
                    IADDRESS (EDF$AB_CARR_TABLE_STA),
                    FALSE,
                    0
                    );

        FORMAT :

        PARSE_INPUT (
                    IADDRESS (EDF$AB_FORMAT_TABLE_KEY),
                    IADDRESS (EDF$AB_FORMAT_TABLE_STA),
                    FALSE,
                    0
                    );

        SEG_TYPE :

        PARSE_INPUT (
                    IADDRESS (EDF$AB_TYPE_TABLE_KEY),
                    IADDRESS (EDF$AB_TYPE_TABLE_STA),
                    FALSE,
                    0
                    );

    OTHERWISE

        { NULL-STATEMENT } ;

    END;        { CASE }

    TEST.QUALIFIER      := INPUT_VALUE;

END;    { IF QUALIFIER_VALUED }

IF SEC_TYPE[TEST.SECONDARY].NUM THEN

BEGIN

    TEMP_MAX    := SECONDARY_MAX[TEST.SECONDARY];

    IF (TEST.SECONDARY IN

    [ DATA_KEY_COMPRESSION,
    DATA_RECORD_COMPRESSION,
    INDEX_COMPRESSION ]

    ) THEN
    WRITE ('Abs<100)')

ELSE IF TEMP_MAX = EDF$C_1GIGA THEN

    WRITE ('0-1Giga)')

ELSE

    WRITE ('0-',TEMP_MAX:NUM_LEN(TEMP_MAX),')');

WRITE (ANSI_REVERSE,'[-]',ANSI_RESET);

IF (
(NUM_LEN(TEMP_MAX) > 8)
AND
(TEMP_MAX <> EDF$C_1GIGA)
) THEN

    WRITE (' : ')

ELSE

    WRITE ('          : ');

NUMBER_INPUT (TEST.NUMBER,FALSE,0);

IF (TEST.SECONDARY IN

[ DATA_KEY_COMPRESSION,
DATA_RECORD_COMPRESSION,
INDEX_COMPRESSION ]

) THEN

BEGIN

    IF (
    ((VDATA[EDF$K_PROLOGUE_VERSION])
    AND (IDATA[EDF$K_PROLOGUE_VERSION] < 3))
    AND
    (TEST.NUMBER <> 0)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    IF (
    (TEST.NUMBER < -TEMP_MAX)
    OR
    (TEST.NUMBER > TEMP_MAX)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

END

ELSE IF TEST.SECONDARY = CONTROL_FIELD_SIZE THEN
```

```
    BEGIN

        IF (
        (TEST.NUMBER < 1)
        OR
        (TEST.NUMBER > TEMP_MAX)
        ) THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    END

    ELSE

    BEGIN

        IF (
        (TEST.NUMBER < 0)
        OR
        (TEST.NUMBER > TEMP_MAX)
        ) THEN

            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    END;

    IF (
    (TEST.SECONDARY = MT_BLOCK_SIZE)
    AND
    (TEST.NUMBER > 0)
    AND
    (TEST.NUMBER < 20)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

END;      { IF NUMBER_VALUED }

IF (
(SEC_TYPE[TEST.SECONDARY].STR)
OR
(TEST.PRIMARY = TITLE)
) THEN

BEGIN

    IF TEST.PRIMARY = DATE THEN

        WRITE ('Date-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'      : ')

    ELSE IF TEST.SECONDARY = NAME$ THEN

        WRITE ('1-32 chars)[null]       : ')

    ELSE

        WRITE ('1-126 chars)[null]',CRLF_SHIFT,': ');
```

```

IF EOF (INPUT) THEN

BEGIN

    RESET (INPUT);
    LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

END;

READLN (TEMP_STRING255);
WRITELN (CRLF);

TEST.STRING := NULL_STRING;
STR$TRIM (TEST.STRING,TEMP_STRING255);
LIB$SCOPY_DXDX (TEST.STRING,INPUT_DESC);
PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

{ +
If we're journaling our input, save a copy of it to the
journal file.
- }
IF JOURNAL_ENABLED THEN

    IF TEST.STRING.DSC$W_LENGTH > 0 THEN

        WRITELN (
            JOURNAL_FILE,
            TEST.STRING.DSC$A_POINTER^:
                TEST.STRING.DSC$W_LENGTH
            )

    ELSE

        WRITELN (JOURNAL_FILE);

IF TEST.PRIMARY = DATE THEN

BEGIN

    STR$UPCASE (TEST.STRING,TEST.STRING);

    IF TEST.STRING.DSC$W_LENGTH = 0 THEN

    BEGIN

        STR$FREE1_DX (TEST.STRING);
        LIB$SIGNAL (EDF$_NODEFAULT,0,0,0);

    END;

    { +
    Copy the upcased string back into the temp_string255
    for the test.
    - }
    FOR I := 1 TO TEST.STRING.DSC$W_LENGTH DO
```

```

            TEMP_STRING255[I]    := TEST.STRING.DSC$A_POINTER^[I];

        IF (
        NOT ODD ( $BINTIM (TEMP_STRING255,QUAD_TIME) )
        ) THEN

        BEGIN

            STR$FREE1_DX (TEST.STRING);
            LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

        END;

    END;         { IF TEST.PRIMARY = DATE }

    IF (
    (
    (TEST.SECONDARY = NAMES)
    AND
    (TEST.STRING.DSC$W_LENGTH > 32)
    )
    OR
    (TEST.STRING.DSC$W_LENGTH > 126)
    ) THEN

    BEGIN

        STR$FREE1_DX (TEST.STRING);
        LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

    END;

END;    { IF STRING_VALUED }

IF SEC_TYPE[TEST.SECONDARY].SW THEN

BEGIN

    WRITE ('Yes/No)',ANSI_REVERSE,'[-]',ANSI_RESET,'    : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_YES_NO_TABLE_KEY),
                IADDRESS (EDF$AB_YES_NO_TABLE_STA),
                FALSE,
                0
                );

    TEST.SWITCH := (INPUT_VALUE = EDF$K_YES);

    IF (
    (TEST.PRIMARY = KEY)
    AND
    (TEST.PRINUM = 0)
    AND
    (TEST.SECONDARY = CHANGES)
    AND
    (TEST.SWITCH = TRUE)
    ) THEN

        LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

    IF (
    (TEST.PRIMARY = RECORD$)
    AND
    (TEST.SECONDARY = BLOCK_SPAN)
    AND
    (TEST.SWITCH = TRUE)
    ) THEN

    BEGIN

        IF FIND_OBJECT (SEC,FILE$,0,ORGANIZATION,0) THEN

        BEGIN

            IF DEF_CURRENT^.QUALIFIER <> FDL$C_SEQ THEN

                LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        END;

    END;

END;    { IF SWITCH_VALUED }

IF TEST.SECONDARY = OWNER THEN

BEGIN

    EDF$GL_OWNER_UIC    := 0;

    WRITE ('UIC-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'   : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_UIC_TABLE_KEY),
                IADDRESS (EDF$AB_UIC_TABLE_STA),
                FALSE,
                0
                );

    TEST.OWNER_UIC      := EDF$GL_OWNER_UIC;

END;    { IF TEST.SECONDARY = OWNER }

IF TEST.SECONDARY = PROTECTION THEN

BEGIN

    FOR I := 0 TO 31 DO

        EDF$GL_PROT_MASK[I]     := FALSE;

    WRITE ('Prot-str)',ANSI_REVERSE,'[-]',ANSI_RESET,CRLF_SHIFT,': ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_PROT_TABLE_KEY),
                IADDRESS (EDF$AB_PROT_TABLE_STA),
                FALSE,
                0
                );

    TEST.PROT_MASK      := EDF$GL_PROT_MASK;

END;    { IF TEST.SECONDARY = PROTECTION }

IF TEST.SECONDARY = POSITIONS THEN

BEGIN

    WRITE ('Keyword)',ANSI_REVERSE,'[-]',ANSI_RESET,'    : ');
    PARSE_INPUT (
                IADDRESS (EDF$AB_POSIT_TABLE_KEY),
                IADDRESS (EDF$AB_POSIT_TABLE_STA),
                FALSE,
                0
                );

    TEST.QUALIFIER      := INPUT_VALUE;

    IF NOT (TEST.QUALIFIER IN [ FDL$C_NOPOS, FDL$C_ANYPOS ]) THEN

    BEGIN

        WRITE (CRLF_SHIFT,'Enter POSITION value         (');

        CASE TEST.QUALIFIER OF

            FDL$C_CLUSPOS, FDL$C_CYLPOS, FDL$C_LOGPOS, FDL$C_VIRPOS :

            BEGIN

                WRITE ('0-1Giga)',ANSI_REVERSE,'[-]',ANSI_RESET,'        : ');
                NUMBER_INPUT (TEST.NUMBER,FALSE,0);

            END;

            FDL$C_FIDPOS :

            BEGIN

                EDF$GL_FID1     := 0;
                EDF$GL_FID2     := 0;
                EDF$GL_FID3     := 0;

                WRITE ('FID-str)',ANSI_REVERSE,'[-]',ANSI_RESET,'        : ');
                PARSE_INPUT (
                            IADDRESS (EDF$AB_FID_TABLE_KEY),
                            IADDRESS (EDF$AB_FID_TABLE_STA),
                            FALSE,
                            0
                            );

                TEST.FID1               := EDF$GL_FID1;
```

```
                    TEST.FID2                   := EDF$GL_FID2;
                    TEST.FID3                   := EDF$GL_FID3;

                END;

                FDL$C_FNMPOS :

                BEGIN

                    WRITE ('1-109 chars)[null]',CRLF_SHIFT,': ');

                    IF EOF (INPUT) THEN

                    BEGIN

                        RESET (INPUT);
                        LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

                    END;

                    READLN (TEMP_STRING255);
                    WRITELN (CRLF);

                    TEST.STRING         := NULL_STRING;
                    STR$TRIM (TEST.STRING,TEMP_STRING255);
                    LIB$SCOPY_DXDX (TEST.STRING,INPUT_DESC);
                    PARAM_BLOCK.TPA$L_TOKENPTR          := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
                    PARAM_BLOCK.TPA$L_TOKENCNT          := INPUT_DESC.DSC$W_LENGTH;

                    { +
                    If we're journaling our input, save a copy of it to the
                    journal file.
                    - }
                    IF JOURNAL_ENABLED THEN

                        IF TEST.STRING.DSC$W_LENGTH > 0 THEN

                            WRITELN (
                                JOURNAL_FILE,
                                TEST.STRING.DSC$A_POINTER^:
                                    TEST.STRING.DSC$W_LENGTH
                                )

                        ELSE

                            WRITELN (JOURNAL_FILE);

                    IF TEST.STRING.DSC$W_LENGTH > 109 THEN

                        LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

                END;

            OTHERWISE

                { NULL-STATEMENT } ;
```

```
        END;      { CASE }

    END;          { IF NOT (TEST.QUALIFIER IN [ FDL$C_NOPOS, FDL$C_ANYPOS ]) }

END;    { IF TEST.SECONDARY = POSITION$ }

IF (
(TEST.SECONDARY = NULL_VALUE)
OR
(TEST.SECONDARY = MT_PROTECTION)
) THEN

BEGIN

    WRITE ('''char''/num)',ANSI_REVERSE,'[-]',ANSI_RESET,'      : ');


    IF EOF (INPUT) THEN

    BEGIN

        RESET (INPUT);
        LIB$SIGNAL (EDF$_CTRLZ,0,0,0);

    END;

    READLN (TEMP_STRING255);
    WRITELN (CRLF);

    TEMP_DESC   := NULL_STRING;
    STR$TRIM (TEMP_DESC,TEMP_STRING255);
    LIB$SCOPY_DXDX (TEMP_DESC,INPUT_DESC);
    PARAM_BLOCK.TPA$L_TOKENPTR  := INPUT_DESC.DSC$A_POINTER::UNSIGNED;
    PARAM_BLOCK.TPA$L_TOKENCNT  := INPUT_DESC.DSC$W_LENGTH;

    { +
    If we're journaling our input, save a copy of it to the
    journal file.
    - }
    IF JOURNAL_ENABLED THEN

        IF TEMP_DESC.DSC$W_LENGTH > 0 THEN

            WRITELN (
                JOURNAL_FILE,
                TEMP_DESC.DSC$A_POINTER^:
                    TEMP_DESC.DSC$W_LENGTH
                )

        ELSE

            WRITELN (JOURNAL_FILE);

    IF TEMP_DESC.DSC$W_LENGTH = 0 THEN

    BEGIN
```

```
        STR$FREE1_DX (TEMP_DESC);
        LIB$SIGNAL (EDF$_NODEFAULT,0,0,0);

    END;

    ISTATUS                 := OTS$CVT_TI_L (TEMP_DESC,TEMP_INT);

    IF ODD (ISTATUS) THEN

        TEST.NUMBER         := TEMP_INT

    ELSE IF (
    (TEMP_DESC.DSC$A_POINTER^[1] <> APOSTROPHE)
    OR
    (TEMP_DESC.DSC$A_POINTER^[3] <> APOSTROPHE)
    ) THEN

    BEGIN

        STR$FREE1_DX (TEMP_DESC);
        LIB$SIGNAL (EDF$_BADSYNTAX,0,0,0);

    END

    ELSE

        TEST.NUMBER         := ORD (TEMP_DESC.DSC$A_POINTER^[2]);

    IF TEST.SECONDARY = MT_PROTECTION THEN

    BEGIN

        { +
        Make sure it's a legal ANSI-a character.
        - }
        IF (
        (TEST.NUMBER < %X20)    { SPACE }
        OR
        (TEST.NUMBER > %X5A)    { CAPITAL Z }
        OR
        (TEST.NUMBER = %X23)    { # }
        OR
        (TEST.NUMBER = %X24)    { $ }
        OR
        (TEST.NUMBER = %X40)    { @ }
        ) THEN

        BEGIN

            STR$FREE1_DX (TEMP_DESC);
            LIB$SIGNAL (EDF$_BADVALUE,0,0,0);

        END;

    END; { IF TEST.SECONDARY = MT_PROTECTION }

END;    { IF TEST.SECONDARY = NULL_VALUE OR MT_PROTECTION }
```

```

        { +
        Make sure this is true only for one cycle.
        - }
        TEMP_FULL_PROMPT        := FALSE;

    END;        { THE_QUESTION }

BEGIN

    IF TEST.PRIMARY = TITLE THEN

        TEST.OBJECT_TYPE        := PRI

    ELSE

        TEST.OBJECT_TYPE        := SEC;

    { +
    Keep at it until the user gets it right.
    - }
    REPEAT

        THE_QUESTION;

    UNTIL NOT SYS$INPUT_ERROR;

    STR$FREE1_DX (INPUT_DESC);

END;            { ASK_TEST_SECONDARY_VALUE }

END.
    { End of file: SRC$:EDFASK.PAS }
```

```
                                                                         .TITLE  EDFASK
                                                                         .IDENT  \V04-000\

                                                          00000          .PSECT  $CODE,PIC,CON,REL,LCL,SHR,EXE,RD,NOWRT,2

74  65  6C  20  32  20  65  68  74  20  65  70  79  54    00000 C.AAA:   .ASCII  \Type the 2 letter mnemonic of the select\-
6F  20  63  69  6E  6F  6D  65  6E  6D  20  72  65  74    0000E                  \ed option.\<0><0>
64  65  74  63  65  6C  65  73  20  65  68  74  20  66    0001C
                00  00  2E  6E  6F  69  74  70  6F  20    0002A
74  73  20  65  68  74  20  73  69  20  73  69  68  54    00034 C.AAB:   .ASCII  \This is the starting byte of the key or \-
66  6F  20  65  74  79  62  20  67  6E  69  74  72  61    00042                  \key segment.\
65  6B  20  72  6F  20  79  65  6B  20  65  68  74  20    00050
                2E  74  6E  65  6D  67  65  73  20  79    0005E
6F  74  20  73  72  65  66  65  72  20  73  69  68  54    00068 C.AAC:   .ASCII  \This refers to records that are added to\-
20  74  61  68  74  20  73  64  72  6F  63  65  72  20    00076                  \ the\
74  20  6F  74  20  64  65  64  64  61  20  65  72  61    00084
                                                65  68    00092
20  74  69  20  72  65  74  66  61  20  65  6C  69  66    00094 C.AAD:   .ASCII  \file after it is initially loaded.\<0><0>
6C  20  79  6C  6C  61  69  74  69  6E  69  20  73  69    000A2
                        00  00  2E  64  65  64  61  6F    000B0
6F  20  73  65  6C  62  61  6E  65  20  73  69  68  54    000B8 C.AAE:   .ASCII  \This enables or disables the RMS option.\
65  68  74  20  73  65  6C  62  61  73  69  64  20  72    000C6
        2E  6E  6F  69  74  70  6F  20  53  4D  52  20    000D4
6F  20  73  65  6C  62  61  6E  65  20  73  69  68  54    000E0 C.AAF:   .ASCII  \This enables or disables the RMS option.\
65  68  74  20  73  65  6C  62  61  73  69  64  20  72    000EE
        2E  6E  6F  69  74  70  6F  20  53  4D  52  20    000FC
65  6B  20  67  6E  69  72  74  73  20  68  63  61  45    00108 C.AAG:   .ASCII  \Each string key may consist of up to 8 p\-
20  74  73  69  73  6E  6F  63  20  79  61  6D  20  79    00116                  \arts.\<0><0><0>
72  61  70  20  38  20  6F  74  20  70  75  20  66  6F    00124
                                00  00  00  2E  73  74    00132
20  79  6C  6C  61  75  73  75  20  65  73  65  68  54    00138 C.AAH:   .ASCII  \These usually increase the speed of file\-
73  20  65  68  74  20  65  73  61  65  72  63  6E  69    00146                  \ sharing,\<0><0><0>
73  20  65  6C  69  66  20  66  6F  20  64  65  65  70    00154
                00  00  00  2C  67  6E  69  72  61  68    00162
65  73  6E  65  70  78  65  20  65  68  74  20  74  61    0016C C.AAI:   .ASCII  \at the expense of using more physical me\-
65  72  6F  6D  20  67  6E  69  73  75  20  66  6F  20    0017A                  \mory.\<0><0><0>
6F  6D  65  6D  20  6C  61  63  69  73  79  68  70  20    00188
                                00  00  00  2E  79  72    00196
6E  61  65  6D  20  63  69  74  61  6D  6F  74  75  41    0019C C.AAJ:   .ASCII  \Automatic means the default answers will\-
20  74  6C  75  61  66  65  64  20  65  68  74  20  73    001AA                  \ be used without\
62  20  6C  6C  69  77  20  73  72  65  77  73  6E  61    001B8
74  75  6F  68  74  69  77  20  64  65  73  75  20  65    001C6
6F  63  20  72  6F  66  20  67  6E  69  74  69  61  77    001D4 C.AAK:   .ASCII  \waiting for confirmation.\<0><0><0>
00  00  00  2E  6E  6F  69  74  61  6D  72  69  66  6E    001E2
20  73  6C  6F  72  74  6E  6F  63  20  73  69  68  54    001F0 C.AAL:   .ASCII  \This controls whether full menus are dis\-
6D  20  6C  6C  75  66  20  72  65  68  74  65  68  77    001FE                  \played.\<0>
6C  70  73  69  64  20  65  72  61  20  73  75  6E  65    0020C
                                00  2E  64  65  79  61    0021A
65  74  65  64  20  6C  6C  69  77  20  73  69  68  54    00220 C.AAM:   .ASCII  \This will determine the allocation of th\-
6F  6C  6C  61  20  65  68  74  20  65  6E  69  6D  72    0022E                  \e file.\<0>
20  65  68  74  20  66  6F  20  6E  6F  69  74  61  63    0023C
                                00  2E  65  6C  69  66    0024A
6F  74  20  73  72  65  66  65  72  20  73  69  68  54    00250 C.AAN:   .ASCII  \This refers to the order of the initial \-
20  66  6F  20  72  65  64  72  6F  20  65  68  74  20    0025E                  \records loaded.\<0>
65  72  20  6C  61  69  74  69  6E  69  20  65  68  74    0026C
00  2E  64  65  64  61  6F  6C  20  73  64  72  6F  63    0027A
20  65  68  74  20  65  72  61  20  65  73  65  68  54    00288 C.AAO:   .ASCII  \These are the records initially loaded i\-
```

```
61  69  74  69  6E  69  20  73  64  72  6F  63  65  72      00296                   \nto the file.\<0><0><0>
74  6E  69  20  64  65  64  61  6F  6C  20  79  6C  6C      002A4
00  00  00  2E  65  6C  69  66  20  65  68  74  20  6F      002B2
69  77  20  65  6C  69  66  20  65  68  74  20  66  49      002C0 C.AAP:  .ASCII  \If the file will have no "Load" operatio\-
6F  4C  22  20  6F  6E  20  65  76  61  68  20  6C  6C      002CE                   \n, specify "0".\<0>
2C  6E  6F  69  74  61  72  65  70  6F  20  22  64  61      002DC
00  2E  22  30  22  20  79  66  69  63  65  70  73  20      002EA
20  65  68  74  20  65  72  61  20  65  73  65  68  54      002F8 C.AAQ:  .ASCII  \These are the records added after the in\-
20  64  65  64  64  61  20  73  64  72  6F  63  65  72      00306                   \itial file load.\
74  69  6E  69  20  65  68  74  20  72  65  74  66  61      00314
2E  64  61  6F  6C  20  65  6C  69  66  20  6C  61  69      00322
65  72  20  68  63  61  65  20  2C  6F  6E  20  66  49      00330 C.AAR:  .ASCII  \If no, each record plus overhead must fi\-
72  65  76  6F  20  73  75  6C  70  20  64  72  6F  63      0033E                   \t in a disk block.\<0><0>
20  74  69  66  20  74  73  75  6D  20  64  61  65  68      0034C
63  6F  6C  62  20  6B  73  69  64  20  61  20  6E  69      0035A
                                        00  00  2E  6B      00368
61  70  73  20  65  6D  6F  73  20  2C  6F  73  6C  41      0036C C.AAS:  .ASCII  \Also, some space may be wasted at the en\-
74  73  61  77  20  65  62  20  79  61  6D  20  65  63      0037A                   \d of blocks.\
20  64  6E  65  20  65  68  74  20  74  61  20  64  65      00388
                2E  73  6B  63  6F  6C  62  20  66  6F      00396
65  6C  20  65  68  74  20  73  69  20  73  69  68  54      003A0 C.AAT:  .ASCII  \This is the length of the key (segment) \-
65  6B  20  65  68  74  20  66  6F  20  68  74  67  6E      003AE                   \in bytes.\<0><0><0>
6E  69  20  29  74  6E  65  6D  67  65  73  28  20  79      003BC
                00  00  00  2E  73  65  74  79  62  20      003CA
65  73  2D  69  74  6C  75  6D  20  68  74  69  57  28      003D4 C.AAU:  .ASCII  \(With multi-segment keys, answer "0" aft\-
6E  61  20  2C  73  79  65  6B  20  74  6E  65  6D  67      003E2                   \er the last segment.)\<0><0><0>
72  65  74  66  61  20  22  30  22  20  72  65  77  73      003F0
6D  67  65  73  20  74  73  61  6C  20  65  68  74  20      003FE
                        00  00  00  29  2E  74  6E  65      0040C
6F  74  20  73  72  65  66  65  72  20  73  69  68  54      00414 C.AAV:  .ASCII  \This refers to the structure level of th\-
65  72  75  74  63  75  72  74  73  20  65  68  74  20      00422                   \e data file.\
20  65  68  74  20  66  6F  20  6C  65  76  65  6C  20      00430
                2E  65  6C  69  66  20  61  74  61  64      0043E
6C  20  30  20  66  6F  20  65  75  6C  61  76  20  41      00448 C.AAW:  .ASCII  \A value of 0 lets RMS choose an appropri\-
65  73  6F  6F  68  63  20  53  4D  52  20  73  74  65      00456                   \ate prolog.\<0>
74  61  69  72  70  6F  72  70  70  61  20  6E  61  20      00464
                00  2E  67  6F  6C  6F  72  70  20  65      00472
2F  65  7A  79  6C  61  6E  41  20  6E  61  20  66  49      0047C C.AAX:  .ASCII  \If an Analyze/RMS indicates little compr\-
20  73  65  74  61  63  69  64  6E  69  20  53  4D  52      0048A                   \ession is acheived\<0><0>
73  65  72  70  6D  6F  63  20  65  6C  74  74  69  6C      00498
76  69  65  68  63  61  20  73  69  20  6E  6F  69  73      004A6
                                        00  00  64  65      004B4
6F  4E  20  72  65  77  73  6E  61  20  6E  65  68  74      004B8 C.AAY:  .ASCII  \then answer No, otherwise it is usually \-
74  69  20  65  73  69  77  72  65  68  74  6F  20  2C      004C6                   \better to answer Yes.\<0><0><0>
65  62  20  79  6C  6C  61  75  73  75  20  73  69  20      004D4
72  65  77  73  6E  61  20  6F  74  20  72  65  74  74      004E2
                        00  00  00  2E  73  65  59  20      004F0
55  46  2F  45  43  49  56  45  44  20  57  4F  48  53      004F8 C.AAZ:  .ASCII  \SHOW DEVICE/FULL can be used to determin\-
64  65  73  75  20  65  62  20  6E  61  63  20  4C  4C      00506                   \e this value.\<0><0><0>
20  65  6E  69  6D  72  65  74  65  64  20  6F  74  20      00514
00  00  00  2E  65  75  6C  61  76  20  73  69  68  74      00522
6F  74  20  73  72  65  66  65  72  20  73  69  68  54      00530 C.ABA:  .ASCII  \This refers to the orderring of addition\-
67  6E  69  72  72  65  64  72  6F  20  65  68  74  20      0053E                   \al records.\<0>
6C  61  6E  6F  69  74  69  64  64  61  20  66  6F  20      0054C
                00  2E  73  64  72  6F  63  65  72  20      0055A
73  69  20  65  67  6E  61  72  20  6C  61  67  65  4C      00564 C.ABB:  .ASCII  \Legal range is 1 to 63 blocks per bucket\-
6B  63  6F  6C  62  20  33  36  20  6F  74  20  31  20      00572                   \, and buckets must\<0><0>
```

```
20  2C  74  65  6B  63  75  62  20  72  65  70  20  73      00580
75  6D  20  73  74  65  6B  63  75  62  20  64  6E  61      0058E
                                        00  00  74  73      0059C
67  75  6F  6E  65  20  65  67  72  61  6C  20  65  62      005A0 C.ABC:   .ASCII   \be large enough to hold at least 1 recor\-
6C  20  74  61  20  64  6C  6F  68  20  6F  74  20  68      005AE                   \d plus overhead.\
20  64  72  6F  63  65  72  20  31  20  74  73  61  65      005BC
2E  64  61  65  68  72  65  76  6F  20  73  75  6C  70      005CA
72  65  66  66  75  42  5F  72  65  6C  6C  61  6D  53      005D8 C.ABD:   .ASCII   \Smaller_Buffers: less memory and RMS pro\-
79  72  6F  6D  65  6D  20  73  73  65  6C  20  3A  73      005E6                   \cessing used\
65  63  6F  72  70  20  53  4D  52  20  64  6E  61  20      005F4
                64  65  73  75  20  67  6E  69  73  73      00602
3A  73  65  6C  69  46  5F  72  65  74  74  61  6C  46      0060C C.ABE:   .ASCII   \Flatter_Files:    fewer actual disk acces\-
61  75  74  63  61  20  72  65  77  65  66  20  20  20      0061A                   \ses needed\<0><0>
65  73  73  65  63  63  61  20  6B  73  69  64  20  6C      00628
                00  00  64  65  64  65  65  6E  20  73      00636
20  3A  73  65  75  6C  61  76  20  6C  61  67  65  4C      00640 C.ABF:   .ASCII   \Legal values: Fast_Convert, NoFast_Conve\-
20  2C  74  72  65  76  6E  6F  43  5F  74  73  61  46      0064E                   \rt, RMS_Puts\
74  72  65  76  6E  6F  43  5F  74  73  61  46  6F  4E      0065C
                73  74  75  50  5F  53  4D  52  20  2C      0066A
20  3A  74  72  65  76  6E  6F  43  5F  74  73  61  46      00674 C.ABG:   .ASCII   \Fast_Convert:    using the VAX-11 Convert\-
41  56  20  65  68  74  20  67  6E  69  73  75  20  20      00682                   \/Fast_Load option\<0><0><0>
46  2F  74  72  65  76  6E  6F  43  20  31  31  2D  58      00690
6F  69  74  70  6F  20  64  61  6F  4C  5F  74  73  61      0069E
                                        00  00  00  6E      006AC
74  72  65  76  6E  6F  43  5F  74  73  61  46  6F  4E      006B0 C.ABH:   .ASCII   \NoFast_Convert: using the VAX-11 Convert\-
41  56  20  65  68  74  20  67  6E  69  73  75  20  3A      006BE                   \/NoFast_Load option\<0>
4E  2F  74  72  65  76  6E  6F  43  20  31  31  2D  58      006CC
74  70  6F  20  64  61  6F  4C  5F  74  73  61  46  6F      006DA
                                        00  6E  6F  69      006E8
20  20  20  20  20  3A  73  74  75  50  5F  53  4D  52      006EC C.ABI:   .ASCII   \RMS_Puts:        writing to a file from a\-
61  20  6F  74  20  67  6E  69  74  69  72  77  20  20      006FA                   \ High Level Language\
48  20  61  20  6D  6F  72  66  20  65  6C  69  66  20      00708
67  6E  61  4C  20  6C  65  76  65  4C  20  68  67  69      00716
                                        65  67  61  75      00724
6E  69  20  65  68  74  20  73  69  20  73  69  68  54      00728 C.ABJ:   .ASCII   \This is the initial file loading fill fa\-
61  6F  6C  20  65  6C  69  66  20  6C  61  69  74  69      00736                   \ctor.\<0><0><0>
74  63  61  66  20  6C  6C  69  66  20  67  6E  69  64      00744
                                00  00  00  2E  72  6F      00752
42  20  3A  73  65  70  79  74  20  6C  61  67  65  4C      00758 C.ABK:   .ASCII   \Legal types: Bin2 Bin4 Bin8 Int2 Int4 In\-
20  38  6E  69  42  20  34  6E  69  42  20  32  6E  69      00766                   \t8 Decimal String\<0><0><0>
38  74  6E  49  20  34  74  6E  49  20  32  74  6E  49      00774
6E  69  72  74  53  20  6C  61  6D  69  63  65  44  20      00782
                                        00  00  00  67      00790
                                        00  65  73  55      00794 C.ABL:   .ASCII   \Use\<0>
66  20  73  65  70  79  74  20  22  78  6E  69  42  22      00798 C.ABM:   .ASCII   \"Binx" types for unsigned binary keys of\-
69  62  20  64  65  6E  67  69  73  6E  75  20  72  6F      007A6                   \ 2, 4 or 8 bytes,\<0><0><0>
32  20  66  6F  20  73  79  65  6B  20  79  72  61  6E      007B4
73  65  74  79  62  20  38  20  72  6F  20  34  20  2C      007C2
                                        00  00  00  2C      007D0
66  20  73  65  70  79  74  20  22  78  74  6E  49  22      007D4 C.ABN:   .ASCII   \"Intx" types for signed binary key of 2,\-
61  6E  69  62  20  64  65  6E  67  69  73  20  72  6F      007E2                   \ 4 or 8 bytes,\<0><0>
34  20  2C  32  20  66  6F  20  79  65  6B  20  79  72      007F0
00  00  2C  73  65  74  79  62  20  38  20  72  6F  20      007FE
65  70  79  74  20  22  6C  61  6D  69  63  65  44  22      0080C C.ABO:   .ASCII   \"Decimal" type for packed decimal key of\-
65  64  20  64  65  6B  63  61  70  20  72  6F  66  20      0081A                   \ 1 to 16 bytes,\<0>
31  20  66  6F  20  79  65  6B  20  6C  61  6D  69  63      00828
00  2C  73  65  74  79  62  20  36  31  20  6F  74  20      00836
```

```
20  65  70  79  74  20  22  67  6E  69  72  74  53  22    00844 C.ABP:  .ASCII  \"String" type for character string key o\-
20  72  65  74  63  61  72  61  68  63  20  72  6F  66    00852                 \f 1 to 255 bytes.\<0><0><0>
20  66  6F  20  79  65  6B  20  67  6E  69  72  74  73    00860
73  65  74  79  62  20  35  35  32  20  6F  74  20  31    0086E
                                        00  00  00  2E    0087C
20  73  65  6C  69  66  20  64  65  78  65  64  6E  49    00880 C.ABQ:  .ASCII  \Indexed files are only Fixed or Variable\-
64  65  78  69  46  20  79  6C  6E  6F  20  65  72  61    0088E                 \.\<0><0><0>
00  2E  65  6C  62  61  69  72  61  56  20  72  6F  20    0089C
                                                00  00    008AA
20  74  61  6D  72  6F  66  20  6D  61  65  72  74  53    008AC C.ABR:  .ASCII  \Stream format (Seq only) is Stream, Stre\-
20  73  69  20  29  79  6C  6E  6F  20  71  65  53  28    008BA                 \am_CR, or Stream_LF.\
6D  61  65  72  74  53  20  2C  6D  61  65  72  74  53    008C8
6D  61  65  72  74  53  20  72  6F  20  2C  52  43  5F    008D6
                                        2E  46  4C  5F    008E4
65  72  6C  61  20  6E  61  20  74  63  65  6C  65  53    008E8 C.ABS:  .ASCII  \Select an already defined key.\<0><0>
65  6B  20  64  65  6E  69  66  65  64  20  79  64  61    008F6
                                        00  00  2E  79    00904
6C  69  66  20  64  65  78  65  64  6E  49  20  6E  41    00908 C.ABT:  .ASCII  \An Indexed file can have from 1 to 255 k\-
6F  72  66  20  65  76  61  68  20  6E  61  63  20  65    00916                 \eys.\
79  65  6B  20  35  35  32  20  6F  74  20  31  20  6D    00924
                                                2E  73    00932
6F  74  20  73  72  65  66  65  72  20  73  69  68  54    00934 C.ABU:  .ASCII  \This refers to the Fixed portion of the \-
72  6F  70  20  64  65  78  69  46  20  65  68  74  20    00942                 \record.\<0>
65  72  20  65  68  74  20  66  6F  20  6E  6F  69  74    00950
                                00  2E  64  72  6F  63    0095E
6F  74  20  73  72  65  66  65  72  20  73  69  68  54    00964 C.ABV:  .ASCII  \This refers to the records in the data f\-
69  20  73  64  72  6F  63  65  72  20  65  68  74  20    00972                 \ile.\
6C  69  66  20  61  74  61  64  20  65  68  74  20  6E    00980
                                                2E  65    0098E
20  65  68  74  20  73  74  65  73  20  73  69  68  54    00990 C.ABW:  .ASCII  \This sets the longest record that can be\-
64  72  6F  63  65  72  20  74  73  65  67  6E  6F  6C    0099E                 \ stored in the file.\
73  20  65  62  20  6E  61  63  20  74  61  68  74  20    009AC
66  20  65  68  74  20  6E  69  20  64  65  72  6F  74    009BA
                                        2E  65  6C  69    009C8
30  20  66  6F  20  6D  75  6D  69  78  61  6D  20  41    009CC C.ABX:  .ASCII  \A maximum of 0 will set no explicit maxi\-
65  20  6F  6E  20  74  65  73  20  6C  6C  69  77  20    009DA                 \mum.\
75  6D  69  78  61  6D  20  74  69  63  69  6C  70  78    009E8
                                                2E  6D    009F6
20  65  68  74  20  73  74  65  73  20  73  69  68  54    009F8 C.ABY:  .ASCII  \This sets the Record attributes of the f\-
75  62  69  72  74  74  61  20  64  72  6F  63  65  52    00A06                 \ile.\
6C  69  66  20  65  68  74  20  66  6F  20  73  65  74    00A14
                                                2E  65    00A22
69  6E  49  20  3A  64  6E  75  6F  62  20  77  6F  4C    00A24 C.ABZ:  .ASCII  \Low bound: Initial Load of Recs\<9>\(0-1\-
52  20  66  6F  20  64  61  6F  4C  20  6C  61  69  74    00A32                 \Giga)[0]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  30  28  09  73  63  65    00A40
                                00  20  3A  09  5D  30    00A4E
6E  49  20  3A  64  6E  75  6F  62  20  68  67  69  48    00A54 C.ACA:  .ASCII  \High bound: Initial Load of Recs(\<0>-
20  66  6F  20  64  61  6F  4C  20  6C  61  69  74  69    00A62                 <0><0>
                        00  00  00  28  73  63  65  52    00A70
                        5B  29  61  67  69  47  31  2D    00A78 C.ACB:  .ASCII  \-1Giga)[\
                                        00  20  3A  09    00A80 C.ACC:  .ASCII  <9>\: \<0>
                                        00  20  3A  20    00A84 C.ACD:  .ASCII  \ : \<0>
6D  75  4E  20  3A  64  6E  75  6F  62  20  77  6F  4C    00A88 C.ACE:  .ASCII  \Low bound: Number of Added Recs\<9>\(0-1\-
52  20  64  65  64  64  41  20  66  6F  20  72  65  62    00A96                 \Giga)[0]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  30  28  09  73  63  65    00AA4
                                00  20  3A  09  5D  30    00AB2
75  4E  20  3A  64  6E  75  6F  62  20  68  67  69  48    00AB8 C.ACF:  .ASCII  \High bound: Number of Added Recs(\<0>-
20  64  65  64  64  41  20  66  6F  20  72  65  62  6D      00AC6                   <0><0>
                        00  00  00  28  73  63  65  52      00AD4
                        5B  29  61  67  69  47  31  2D      00ADC C.ACG:   .ASCII  \-1Giga)[\
                                        00  20  3A  09      00AE4 C.ACH:   .ASCII  <9>\: \<0>
                                        00  20  3A  20      00AE8 C.ACI:   .ASCII  \ : \<0>
79  65  4B  20  3A  64  6E  75  6F  62  20  77  6F  4C      00AEC C.ACJ:   .ASCII  \Low bound: Key\<0><0>
                                                00  00      00AFA
        00  2D  31  28  09  68  74  67  6E  65  4C  20      00AFC C.ACK:   .ASCII  \ Length\<9>\(1-\<0>
                        00  20  3A  09  5D  31  5B  29      00B08 C.ACL:   .ASCII  \)[1]\<9>\: \<0>
65  4B  20  3A  64  6E  75  6F  62  20  68  67  69  48      00B10 C.ACM:   .ASCII  \High bound: Key\<0>
                                                00  79      00B1E
                00  28  09  68  74  67  6E  65  4C  20      00B20 C.ACN:   .ASCII  \ Length\<9>\(\<0>
                                                5B  29      00B2A C.ACO:   .ASCII  \)[\
                                        20  3A  09  5D      00B2C C.ACP:   .ASCII  \]\<9>\: \
63  65  52  20  3A  64  6E  75  6F  62  20  77  6F  4C      00B30 C.ACQ:   .ASCII  \Low bound: Record Size\<9><9>\(1-\<0>
00  2D  31  28  09  09  65  7A  69  53  20  64  72  6F      00B3E
                        00  20  3A  09  5D  31  5B  29      00B4C C.ACR:   .ASCII  \)[1]\<9>\: \<0>
65  52  20  3A  64  6E  75  6F  62  20  68  67  69  48      00B54 C.ACS:   .ASCII  \High bound: Record Size\<9><9>\(\<0><0>
00  00  28  09  09  65  7A  69  53  20  64  72  6F  63      00B62
                        00  5D  30  30  30  31  5B  29      00B70 C.ACT:   .ASCII  \)[1000]\<0>
                                        00  20  3A  09      00B78 C.ACU:   .ASCII  <9>\: \<0>
                                        00  20  3A  20      00B7C C.ACV:   .ASCII  \ : \<0>
79  65  4B  20  3A  64  6E  75  6F  62  20  77  6F  4C      00B80 C.ACW:   .ASCII  \Low bound: Key\<0><0>
                                                00  00      00B8E
28  09  25  20  6C  6C  69  46  20  74  69  6E  49  20      00B90 C.ACX:   .ASCII  \ Init Fill %\<9>\(50-100)[50]\<9>\: \
20  3A  09  5D  30  35  5B  29  30  30  31  2D  30  35      00B9E
65  4B  20  3A  64  6E  75  6F  62  20  68  67  69  48      00BAC C.ACY:   .ASCII  \High bound: Key\<0>
                                                00  79      00BBA
28  09  25  20  6C  6C  69  46  20  74  69  6E  49  20      00BBC C.ACZ:   .ASCII  \ Init Fill %\<9>\(50-100)[100]\<9>\: \<0>
3A  09  5D  30  30  31  5B  29  30  30  31  2D  30  35      00BCA
                                                00  20      00BD8
                                                09  09      00BDA C.ADA:   .ASCII  <9><9>
20  65  6C  74  69  54  20  74  70  69  72  63  53  20      00BDC C.ADB:   .ASCII  \ Script Title Selection \
                20  6E  6F  69  74  63  65  6C  65  53      00BEA
6C  65  64  6F  6D  09  09  79  65  4B  5F  64  64  41      00BF4 C.ADC:   .ASCII  \Add_Key\<9><9>\modeling and addition of \-
69  74  69  64  64  61  20  64  6E  61  20  67  6E  69      00C02                   \a new index's parameters\<0><0>
6E  69  20  77  65  6E  20  61  20  66  6F  20  6E  6F      00C10
65  74  65  6D  61  72  61  70  20  73  27  78  65  64      00C1E
                                        00  00  73  72      00C2C
6D  65  72  09  79  65  4B  5F  65  74  65  6C  65  44      00C30 C.ADD:   .ASCII  \Delete_Key\<9>\removal of the highest in\-
69  68  20  65  68  74  20  66  6F  20  6C  61  76  6F      00C3E                   \dex's parameters\
20  73  27  78  65  64  6E  69  20  74  73  65  68  67      00C4C
                73  72  65  74  65  6D  61  72  61  70      00C5A
6C  65  64  6F  6D  09  09  64  65  78  65  64  6E  49      00C64 C.ADE:   .ASCII  \Indexed\<9><9>\modeling of parameters fo\-
74  65  6D  61  72  61  70  20  66  6F  20  67  6E  69      00C72                   \r an entire Indexed file\<0><0>
74  6E  65  20  6E  61  20  72  6F  66  20  73  72  65      00C80
69  66  20  64  65  78  65  64  6E  49  20  65  72  69      00C8E
                                        00  00  65  6C      00C9C
6E  69  6E  75  74  09  65  7A  69  6D  69  74  70  4F      00CA0 C.ADF:   .ASCII  \Optimize\<9>\tuning of all indices' para\-
63  69  64  6E  69  20  6C  6C  61  20  66  6F  20  67      00CAE                   \meters using file statistics\
73  72  65  74  65  6D  61  72  61  70  20  27  73  65      00CBC
74  73  20  65  6C  69  66  20  67  6E  69  73  75  20      00CCA
                        73  63  69  74  73  69  74  61      00CD8
63  65  6C  65  73  09  65  76  69  74  61  6C  65  52      00CE0 C.ADG:   .ASCII  \Relative\<9>\selection of parameters for\-
65  6D  61  72  61  70  20  66  6F  20  6E  6F  69  74      00CEE                   \ a Relative file\
6C  65  52  20  61  20  72  6F  66  20  73  72  65  74      00CFC
                65  6C  69  66  20  65  76  69  74  61      00D0A
```

```
6C  65  73  09  6C  61  69  74  6E  65  75  71  65  53    00D14 C.ADH:  .ASCII  \Sequential\<9>\selection of parameters f\-
61  72  61  70  20  66  6F  20  6E  6F  69  74  63  65    00D22                 \or a Sequential file\
53  20  61  20  72  6F  66  20  73  72  65  74  65  6D    00D30
65  6C  69  66  20  6C  61  69  74  6E  65  75  71  65    00D3E
64  6F  6D  65  72  09  09  70  75  68  63  75  6F  54    00D4C C.ADI:  .ASCII  \Touchup\<9><9>\remodeling of parameters \-
6D  61  72  61  70  20  66  6F  20  67  6E  69  6C  65    00D5A                 \for a particular index\
61  70  20  61  20  72  6F  66  20  73  72  65  74  65    00D68
78  65  64  6E  69  20  72  61  6C  75  63  69  74  72    00D76
74  65  6C  65  44  20  79  65  4B  5F  64  64  41  28    00D84 C.ADJ:  .ASCII  \(Add_Key Delete_Key Indexed Optimize\
20  64  65  78  65  64  6E  49  20  79  65  4B  5F  65    00D92
                        65  7A  69  6D  69  74  70  4F    00DA0
75  71  65  53  20  65  76  69  74  61  6C  65  52  20    00DA8 C.ADK:  .ASCII  \ Relative Sequential Touchup)\<0><0><0>
70  75  68  63  75  6F  54  20  6C  61  69  74  6E  65    00DB6
                                        00  00  00  29    00DC4
74  70  69  72  63  53  20  67  6E  69  74  69  64  45    00DC8 C.ADL:  .ASCII  \Editing Script Title\<9><9>\(Keyword)\<0>
6F  77  79  65  4B  28  09  09  65  6C  74  69  54  20    00DD6
                                        00  29  64  72    00DE4
                                        00  5D  2D  5B    00DE8 C.ADM:  .ASCII  \[-]\<0>
                                        00  20  3A  09    00DEC C.ADN:  .ASCII  <9>\: \<0>
20  6F  74  20  22  44  46  22  20  65  70  79  54  28    00DF0 C.ADO:  .ASCII  \(Type "FD" to Finish Design)\
29  6E  67  69  73  65  44  20  68  73  69  6E  69  46    00DFE
72  61  50  20  65  6C  69  46  20  68  63  69  68  57    00E0C C.ADP:  .ASCII  \Which File Parameter\<9>\(Mnemonic)[refr\-
6E  6F  6D  65  6E  4D  28  09  72  65  74  65  6D  61    00E1A                 \esh]\<9>\: \<0>
3A  09  5D  68  73  65  72  66  65  72  5B  29  63  69    00E28
                                                00  20    00E36
                                        00  00  09  09    00E38 C.ADQ:  .ASCII  <9><9><0><0>
20  74  72  65  73  6E  69  20  6F  74  09  64  64  41    00E3C C.ADR:  .ASCII  \Add\<9>\to insert one or more lines into\-
69  6C  20  65  72  6F  6D  20  72  6F  20  65  6E  6F    00E4A                 \ the FDL definition\<0>
46  20  65  68  74  20  6F  74  6E  69  20  73  65  6E    00E58
00  6E  6F  69  74  69  6E  69  66  65  64  20  4C  44    00E66
6F  6D  65  72  20  6F  74  09  65  74  65  6C  65  44    00E74 C.ADS:  .ASCII  \Delete\<9>\to remove one or more lines f\-
65  72  6F  6D  20  72  6F  20  65  6E  6F  20  65  76    00E82                 \rom the FDL definition\<0><0>
68  74  20  6D  6F  72  66  20  73  65  6E  69  6C  20    00E90
69  74  69  6E  69  66  65  64  20  4C  44  46  20  65    00E9E
                                        00  00  6E  6F    00EAC
20  65  76  61  65  6C  20  6F  74  09  74  69  78  45    00EB0 C.ADT:  .ASCII  \Exit\<9>\to leave the FDL Editor after c\-
72  6F  74  69  64  45  20  4C  44  46  20  65  68  74    00EBE                 \reating the FDL file\
6E  69  74  61  65  72  63  20  72  65  74  66  61  20    00ECC
65  6C  69  66  20  4C  44  46  20  65  68  74  20  67    00EDA
6E  69  61  74  62  6F  20  6F  74  09  70  6C  65  48    00EE8 C.ADU:  .ASCII  \Help\<9>\to obtain information about the\-
61  20  6E  6F  69  74  61  6D  72  6F  66  6E  69  20    00EF6                 \ FDL Editor\<0>
45  20  4C  44  46  20  65  68  74  20  74  75  6F  62    00F04
                                00  72  6F  74  69  64    00F12
74  69  6E  69  20  6F  74  09  65  6B  6F  76  6E  49    00F18 C.ADV:  .ASCII  \Invoke\<9>\to initiate a script of relat\-
20  74  70  69  72  63  73  20  61  20  65  74  61  69    00F26                 \ed questions\
65  75  71  20  64  65  74  61  6C  65  72  20  66  6F    00F34
                                73  6E  6F  69  74  73    00F42
6E  61  68  63  20  6F  74  09  79  66  69  64  6F  4D    00F48 C.ADW:  .ASCII  \Modify\<9>\to change existing line(s) in\-
69  6C  20  67  6E  69  74  73  69  78  65  20  65  67    00F56                 \ the FDL definition\<0>
46  20  65  68  74  20  6E  69  20  29  73  28  65  6E    00F64
00  6E  6F  69  74  69  6E  69  66  65  64  20  4C  44    00F72
20  74  72  6F  62  61  20  6F  74  09  74  69  75  51    00F80 C.ADX:  .ASCII  \Quit\<9>\to abort the FDL Editor with no\-
72  6F  74  69  64  45  20  4C  44  46  20  65  68  74    00F8E                 \ FDL file creation\<0><0>
66  20  4C  44  46  20  6F  6E  20  68  74  69  77  20    00F9C
00  00  6E  6F  69  74  61  65  72  63  20  65  6C  69    00FAA
79  66  69  63  65  70  73  20  6F  74  09  74  65  53    00FB8 C.ADY:  .ASCII  \Set\<9>\to specify FDL Editor characteri\-
68  63  20  72  6F  74  69  64  45  20  4C  44  46  20    00FC6                 \stics\<0><0><0>
```

```
 00  73  63  69  74  73  69  72  65  74  63  61  72  61        00FD4
                                                 00  00        00FE2
 61  6C  70  73  69  64  20  6F  74  09  77  65  69  56        00FE4 C.ADZ:  .ASCII  \View\<9>\to display the current FDL Defi\-
 20  74  6E  65  72  72  75  63  20  65  68  74  20  79        00FF2                  \nition\<0><0>
 6E  6F  69  74  69  6E  69  66  65  44  20  4C  44  46        01000
                                                 00  00        0100E
 78  45  20  65  74  65  6C  65  44  20  64  64  41  28        01010 C.AEA:  .ASCII  \(Add Delete Exit Help Invoke Modify Quit\-
 65  6B  6F  76  6E  49  20  70  6C  65  48  20  74  69        0101E                  \ Set View)\<0><0>
 53  20  74  69  75  51  20  79  66  69  64  6F  4D  20        0102C
                 00  00  29  77  65  69  56  20  74  65        0103A
 75  46  20  72  6F  74  69  64  45  20  6E  69  61  4D        01044 C.AEB:  .ASCII  \Main Editor Function\<9><9>\(Keyword)[He\-
 6F  77  79  65  4B  28  09  09  6E  6F  69  74  63  6E        01052                  \lp]\<9>\: \
         20  3A  09  5D  70  6C  65  48  5B  29  64  72        01060
 6E  61  4D  20  63  69  74  61  6D  6F  74  75  41  28        0106C C.AEC:  .ASCII  \(Automatic Manual)\<0><0>
                                 00  00  29  6C  61  75        0107A
 6E  6F  70  73  65  72  20  74  6C  75  61  66  65  44        01080 C.AED:  .ASCII  \Default responses in scripts\<9>\(Keywor\-
 73  74  70  69  72  63  73  20  6E  69  20  73  65  73        0108E                  \d)[Auto]\<9>\: \<0>
 74  75  41  5B  29  64  72  6F  77  79  65  4B  28  09        0109C
                                 00  20  3A  09  5D  6F        010AA
         29  6C  6C  75  46  20  66  65  69  72  42  28        010B0 C.AEE:  .ASCII  \(Brief Full)\
 65  76  65  6C  20  67  6E  69  74  70  6D  6F  72  50        010BC C.AEF:  .ASCII  \Prompting level for menus\<9>\(Keyword)[\-
 4B  28  09  73  75  6E  65  6D  20  72  6F  66  20  6C        010CA                  \Full]\<9>\: \
 09  5D  6C  6C  75  46  5B  29  64  72  6F  77  79  65        010D8
                                                 20  3A        010E6
                                         00  79  65  4B        010E8 C.AEG:  .ASCII  \Key\<0>
         00  09  09  6E  6F  69  74  69  73  6F  50  20        010EC C.AEH:  .ASCII  \ Position\<9><9><0>
                                         00  47  45  53        010F8 C.AEI:  .ASCII  \SEG\<0>
                                         2D  30  28  09        010FC C.AEJ:  .ASCII  <9>\(0-\
                         00  20  3A  09  5D  30  5B  29        01100 C.AEK:  .ASCII  \)[0]\<9>\: \<0>
 63  65  52  20  64  65  64  64  41  20  6C  6C  69  57        01108 C.AEL:  .ASCII  \Will Added Records be Distributed Evenly\-
 69  72  74  73  69  44  20  65  62  20  73  64  72  6F        01116                  \ over the\<0><0><0>
 6F  20  79  6C  6E  65  76  45  20  64  65  74  75  62        01124
                 00  00  00  65  68  74  20  72  65  76        01132
                         00  6C  61  69  74  69  6E  49        0113C C.AEM:  .ASCII  \Initial\<0>
                         64  65  64  61  6F  6C  65  52        01144 C.AEN:  .ASCII  \Reloaded\
 20  69  72  50  20  66  6F  20  65  67  6E  61  52  20        0114C C.AEO:  .ASCII  \ Range of Pri Key Values\
                 73  65  75  6C  61  56  20  79  65  4B        0115A
 3A  09  5D  6F  4E  5B  29  6F  4E  2F  73  65  59  28        01164 C.AEP:  .ASCII  \(Yes/No)[No]\<9>\: \<0>
                                                 00  20        01172
                                         00  79  65  4B        01174 C.AEQ:  .ASCII  \Key\<0>
 77  6F  6C  6C  61  20  73  65  67  6E  61  68  43  20        01178 C.AER:  .ASCII  \ Changes allowed\<9><9>\(Yes/No)[Yes]\-
 59  5B  29  6F  4E  2F  73  65  59  28  09  09  64  65        01186                  <9>\: \<0><0>
                         00  00  20  3A  09  5D  73  65        01194
                                         00  79  65  4B        0119C C.AES:  .ASCII  \Key\<0>
 6C  61  20  73  65  74  61  63  69  6C  70  75  44  20        011A0 C.AET:  .ASCII  \ Duplicates allowed\<9>\(Yes/No)[\<0>-
 29  6F  4E  2F  73  65  59  28  09  64  65  77  6F  6C        011AE                  <0><0>
                                         00  00  00  5B        011BC
                         00  00  20  3A  09  5D  6F  4E        011C0 C.AEU:  .ASCII  \No]\<9>\: \<0><0>
                         00  20  3A  09  5D  73  65  59        011C8 C.AEV:  .ASCII  \Yes]\<9>\: \<0>
                                         00  79  65  4B        011D0 C.AEW:  .ASCII  \Key\<0>
 20  6E  6F  69  74  61  74  6E  65  6D  67  65  53  20        011D4 C.AEX:  .ASCII  \ Segmentation desired\<9>\(Yes/No)[No]\-
 4E  2F  73  65  59  28  09  64  65  72  69  73  65  64        011E2                  <9>\: \<0><0><0>
         00  00  00  20  3A  09  5D  6F  4E  5B  29  6F        011F0
 73  72  65  66  66  75  42  20  6C  61  62  6F  6C  47        011FC C.AEY:  .ASCII  \Global Buffers desired\<9><9>\(Yes/No)[N\-
 73  65  59  28  09  09  64  65  72  69  73  65  64  20        0120A                  \o]\<9>\: \<0>
         00  20  3A  09  5D  6F  4E  5B  29  6F  4E  2F        01218
 20  79  74  69  63  61  70  61  43  20  65  6C  69  46        01224 C.AEZ:  .ASCII  \File Capacity in Records\<9>\(0-1Giga)\-
```

```
2D  30  28  09  73  64  72  6F  63  65  52  20  6E  69    01232                   <0><0>
                        00  00  29  61  67  69  47  31    01240
                                        00  5D  2D  5B    01248 C.AFA:  .ASCII  \[-]\<0>
                                        00  20  3A  09    0124C C.AFB:  .ASCII  <9>\: \<0>
6F  63  65  52  20  66  6F  20  72  65  62  6D  75  4E    01250 C.AFC:  .ASCII  \Number of Records that will be Initially\-
20  6C  6C  69  77  20  74  61  68  74  20  73  64  72    0125E                 \ Loaded\<0>
4C  20  79  6C  6C  61  69  74  69  6E  49  20  65  62    0126C
                                00  64  65  64  61  6F    0127A
6F  63  65  52  20  66  6F  20  72  65  62  6D  75  4E    01280 C.AFD:  .ASCII  \Number of Records that will be Reloaded\-
20  6C  6C  69  77  20  74  61  68  74  20  73  64  72    0128E                 <0>
        00  64  65  64  61  6F  6C  65  52  20  65  62    0129C
00  65  6C  69  46  20  65  68  74  20  6F  74  6E  69    012A8 C.AFE:  .ASCII  \into the File\<0><0><0>
                                                00  00    012B6
        29  61  67  69  47  31  2D  30  28  09  09  09    012B8 C.AFF:  .ASCII  <9><9><9>\(0-1Giga)\
                                        00  5D  2D  5B    012C4 C.AFG:  .ASCII  \[-]\<0>
                                        00  20  3A  09    012C8 C.AFH:  .ASCII  <9>\: \<0>
                                        00  20  3A  20    012CC C.AFI:  .ASCII  \ : \<0>
                                        00  20  3A  09    012D0 C.AFJ:  .ASCII  <9>\: \<0>
20  74  72  65  76  6E  6F  43  5F  74  73  61  46  28    012D4 C.AFK:  .ASCII  \(Fast_Convert NoFast_Convert RMS_Puts)\-
74  72  65  76  6E  6F  43  5F  74  73  61  46  6F  4E    012E2                 <0><0>
        00  00  29  73  74  75  50  5F  53  4D  52  20    012F0
4C  20  65  6C  69  46  20  6C  61  69  74  69  6E  49    012FC C.AFL:  .ASCII  \Initial File Load Method\<9><0><0><0>
00  00  00  09  64  6F  68  74  65  4D  20  64  61  6F    0130A
67  6E  69  64  61  6F  6C  65  52  20  65  6C  69  46    01318 C.AFM:  .ASCII  \File Reloading Method\<9><9><0>
                00  09  09  64  6F  68  74  65  4D  20    01326
74  73  61  46  5B  29  64  72  6F  77  79  65  4B  28    01330 C.AFN:  .ASCII  \(Keyword)[Fast]\<9>\: \<0><0>
                                00  00  20  3A  09  5D    0133E
52  20  6C  61  69  74  69  6E  49  20  6C  6C  69  57    01344 C.AFO:  .ASCII  \Will Initial Records Typically be Loaded\-
6C  61  63  69  70  79  54  20  73  64  72  6F  63  65    01352                 \ in Order\<0><0><0>
69  20  64  65  64  61  6F  4C  20  65  62  20  79  6C    01360
                00  00  00  72  65  64  72  4F  20  6E    0136E
72  6F  63  65  52  20  65  68  74  20  6C  6C  69  57    01378 C.AFP:  .ASCII  \Will the Records be Reloaded Typically i\-
64  65  64  61  6F  6C  65  52  20  65  62  20  73  64    01386                 \n Order\<0>
20  6E  69  20  79  6C  6C  61  63  69  70  79  54  20    01394
                                00  72  65  64  72  4F    013A2
50  20  67  6E  69  64  6E  65  63  73  41  20  79  62    013A8 C.AFQ:  .ASCII  \by Ascending Primary Key\<9>\(Yes/No)[No\-
65  59  28  09  79  65  4B  20  79  72  61  6D  69  72    013B6                 \]\<9>\: \
        20  3A  09  5D  6F  4E  5B  29  6F  4E  2F  73    013C4
69  64  64  41  20  66  6F  20  72  65  62  6D  75  4E    013D0 C.AFR:  .ASCII  \Number of Additional Records to be Added\-
73  64  72  6F  63  65  52  20  6C  61  6E  6F  69  74    013DE                 \ After\<0><0>
41  20  64  65  64  64  41  20  65  62  20  6F  74  20    013EC
                                00  00  72  65  74  66    013FA
69  46  20  6C  61  69  74  69  6E  49  20  65  68  74    01400 C.AFS:  .ASCII  \the Initial File Load\<0><0><0>
                00  00  00  64  61  6F  4C  20  65  6C    0140E
20  67  6E  69  64  61  6F  6C  65  52  20  65  68  74    01418 C.AFT:  .ASCII  \the Reloading the File\<0><0>
                00  00  65  6C  69  46  20  65  68  74    01426
5D  30  5B  29  61  67  69  47  31  2D  30  28  09  09    01430 C.AFU:  .ASCII  <9><9>\(0-1Giga)[0]\<9>\: \<0><0><0>
                                00  00  00  20  3A  09    0143E
72  70  6D  6F  43  20  79  65  4B  20  61  74  61  44    01444 C.AFV:  .ASCII  \Data Key Compression desired\<9>\(Yes/No\-
64  65  72  69  73  65  64  20  6E  6F  69  73  73  65    01452                 \)[Yes]\<9>\: \<0><0><0>
5D  73  65  59  5B  29  6F  4E  2F  73  65  59  28  09    01460
                                00  00  00  20  3A  09    0146E
6F  43  20  64  72  6F  63  65  52  20  61  74  61  44    01474 C.AFW:  .ASCII  \Data Record Compression desired\<9>\(Yes\-
69  73  65  64  20  6E  6F  69  73  73  65  72  70  6D    01482                 \/No)[Yes]\<9>\: \
59  5B  29  6F  4E  2F  73  65  59  28  09  64  65  72    01490
                                20  3A  09  5D  73  65    0149E
73  73  65  72  70  6D  6F  43  20  78  65  64  6E  49    014A4 C.AFX:  .ASCII  \Index Compression desired\<9>\(Yes/No)[Y\-
```

```
59  28  09  64  65  72  69  73  65  64  20  6E  6F  69      014B2                  \es]\<9>\: \<0><0>
20  3A  09  5D  73  65  59  5B  29  6F  4E  2F  73  65      014C0
                                                00  00      014CE
6F  76  20  6B  73  69  64  20  74  65  67  72  61  54      014D0 C.AFY:   .ASCII  \Target disk volume Cluster Size\<9>\(1-1\-
53  20  72  65  74  73  75  6C  43  20  65  6D  75  6C      014DE                  \Giga)[3]\<9>\: \<0>
5B  29  61  67  69  47  31  2D  31  28  09  65  7A  69      014EC
                                00  20  3A  09  5D  33      014FA
70  73  20  6E  61  63  20  73  64  72  6F  63  65  52      01500 C.AFZ:   .ASCII  \Records can span disk blocks\<9>\(Yes/No\-
73  6B  63  6F  6C  62  20  6B  73  69  64  20  6E  61      0150E                  \)[Yes]\<9>\: \<0><0><0>
5D  73  65  59  5B  29  6F  4E  2F  73  65  59  28  09      0151C
                                00  00  00  20  3A  09      0152A
61  6E  6F  69  74  69  64  64  41  20  6C  6C  69  57      01530 C.AGA:   .ASCII  \Will Additional Records Typically be Add\-
69  70  79  54  20  73  64  72  6F  63  65  52  20  6C      0153E                  \ed in\<0><0><0>
64  65  64  64  41  20  65  62  20  79  6C  6C  61  63      0154C
                                00  00  00  6E  69  20      0155A
6E  65  63  73  41  20  79  62  20  72  65  64  72  4F      01560 C.AGB:   .ASCII  \Order by Ascending Primary Key\<9>\(Yes/\-
4B  20  79  72  61  6D  69  72  50  20  67  6E  69  64      0156E                  \No)[No]\<9>\: \<0><0>
6F  4E  5B  29  6F  4E  2F  73  65  59  28  09  79  65      0157C
                                00  00  20  3A  09  5D      0158A
65  56  20  67  6F  6C  6F  72  50  20  65  6C  69  46      01590 C.AGC:   .ASCII  \File Prolog Version\<9><9>\(0-3)[3]\-
33  5B  29  33  2D  30  28  09  09  6E  6F  69  73  72      0159E                  <9>\: \
                                        20  3A  09  5D      015AC
                                        00  79  65  4B      015B0 C.AGD:   .ASCII  \Key\<0>
        00  00  00  09  09  68  74  67  6E  65  4C  20      015B4 C.AGE:   .ASCII  \ Length\<9><9><0><0><0>
                                        00  47  45  53      015C0 C.AGF:   .ASCII  \SEG\<0>
                                        00  00  28  09      015C4 C.AGG:   .ASCII  <9>\(\<0><0>
                                        00  5D  2D  5B      015C8 C.AGH:   .ASCII  \[-]\<0>
                                        00  20  3A  09      015CC C.AGI:   .ASCII  <9>\: \<0>
20  64  65  73  55  20  73  69  73  61  68  70  6D  45      015D0 C.AGJ:   .ASCII  \Emphasis Used In Defining Default:\<9>\(\-
65  44  20  67  6E  69  6E  69  66  65  44  20  6E  49      015DE                  \ \<0><0><0>
        00  00  00  20  28  09  3A  74  6C  75  61  66      015EC
66  75  62  5F  72  65  6C  6C  61  6D  53  20  20  20      015F8 C.AGK:   .ASCII  \   Smaller_buffers )\
                                29  20  73  72  65  66      01606
6C  69  66  5F  72  65  74  74  61  6C  46  20  20  20      0160C C.AGL:   .ASCII  \   Flatter_files   )\
                                29  20  20  20  73  65      0161A
6B  63  75  42  20  64  65  74  73  65  67  67  75  53      01620 C.AGM:   .ASCII  \Suggested Bucket Sizes:\<9><9><9>\( \
20  28  09  09  09  3A  73  65  7A  69  53  20  74  65      0162E
                                        00  00  29  20      0163C C.AGN:   .ASCII  \ )\<0><0>
65  76  65  4C  20  66  6F  20  72  65  62  6D  75  4E      01640 C.AGO:   .ASCII  \Number of Levels in Index:\<9><9>\( \
09  09  3A  78  65  64  6E  49  20  6E  69  20  73  6C      0164E
                                                20  28      0165C
                                                29  20      0165E C.AGP:   .ASCII  \ )\
6B  63  75  42  20  66  6F  20  72  65  62  6D  75  4E      01660 C.AGQ:   .ASCII  \Number of Buckets in Index:\<9><9>\( \<0>
09  3A  78  65  64  6E  49  20  6E  69  20  73  74  65      0166E
                                        00  20  28  09      0167C
                                        00  00  29  20      01680 C.AGR:   .ASCII  \ )\<0><0>
64  65  72  69  75  71  65  52  20  73  65  67  61  50      01684 C.AGS:   .ASCII  \Pages Required to Cache Index:\<9><9>\( \
65  64  6E  49  20  65  68  63  61  43  20  6F  74  20      01692
                                20  28  09  09  3A  78      016A0
                                                29  20      016A6 C.AGT:   .ASCII  \ )\
65  73  55  20  67  6E  69  73  73  65  63  6F  72  50      016A8 C.AGU:   .ASCII  \Processing Used to Search Index:\<9>\( \-
6E  49  20  68  63  72  61  65  53  20  6F  74  20  64      016B6                  <0>
                        00  20  28  09  3A  78  65  64      016C4
                                        00  00  29  20      016CC C.AGV:   .ASCII  \ )\<0><0>
                                        00  79  65  4B      016D0 C.AGW:   .ASCII  \Key\<0>
09  09  65  7A  69  53  20  74  65  6B  63  75  42  20      016D4 C.AGX:   .ASCII  \ Bucket Size\<9><9>\(\<0>
                                                00  28      016E2
                        00  00  00  5B  29  33  36  2D    016E4 C.AGY:   .ASCII  \-63)[\<0><0><0>
                                        20  3A  09  5D    016EC C.AGZ:   .ASCII  \]\<9>\: \
65  66  66  75  42  5F  72  65  6C  6C  61  6D  53  28    016F0 C.AHA:   .ASCII  \(Smaller_Buffers Flatter_Files)\<0>
6C  69  46  5F  72  65  74  74  61  6C  46  20  73  72    016FE
                                        00  29  73  65    0170C
44  20  72  6F  66  20  73  69  73  61  68  70  6D  45    01710 C.AHB:   .ASCII  \Emphasis for Default Bucket_Size(Keyword\-
5F  74  65  6B  63  75  42  20  74  6C  75  61  66  65    0171E                  \)[\<0><0>
5B  29  64  72  6F  77  79  65  4B  28  65  7A  69  53    0172C
                                                00  00    0173A
                        20  3A  09  5D  74  61  6C  46    0173C C.AHC:   .ASCII  \Flat]\<9>\: \
        00  00  00  20  3A  20  5D  6C  6C  61  6D  53    01744 C.AHD:   .ASCII  \Small] : \<0><0><0>
                                        00  79  65  4B    01750 C.AHE:   .ASCII  \Key\<0>
72  65  50  20  6C  6C  69  46  20  64  61  6F  4C  20    01754 C.AHF:   .ASCII  \ Load Fill Percent\<9>\(50-100)[100]\-
5B  29  30  30  31  2D  30  35  28  09  74  6E  65  63    01762                  <9>\: \<0>
                        00  20  3A  09  5D  30  30  31    01770
65  20  73  69  68  74  20  65  63  61  6C  70  65  52    01778 C.AHG:   .ASCII  \Replace this existing secondary\<9>\(Yes\-
64  6E  6F  63  65  73  20  67  6E  69  74  73  69  78    01786                  \/No)[No]\<9>\: \<0>
4E  5B  29  6F  4E  2F  73  65  59  28  09  79  72  61    01794
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65  6C  69  66  20  65  6C  69  46  20  61  74  61  44    017A8 C.AHH:   .ASCII  \Data File file-spec\<9><9>\(1-126 chars)\-
20  36  32  31  2D  31  28  09  09  63  65  70  73  2D    017B6                  \[null]\
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6C  6C  75  6E  5B  29  73  72  61  68  63  20  36  32    017F0
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                                        00  00  20  3A    01800 C.AHK:   .ASCII  \: \<0><0>
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5D  6C  6C  75  6E  5B  29  73  72  61  68  63  20  36    01820
                                                20  3A    0182E C.AHM:   .ASCII  \: \
54  20  4C  44  46  20  72  6F  66  20  74  78  65  54    01830 C.AHN:   .ASCII  \Text for FDL Title Section\<9>\(1-126 ch\-
28  09  6E  6F  69  74  63  65  53  20  65  6C  74  69    0183E                  \ars)[null]\
6E  5B  29  73  72  61  68  63  20  36  32  31  2D  31    0184C
                                        5D  6C  6C  75    0185A
                                                20  3A    0185E C.AHO:   .ASCII  \: \
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                                                20  3A    0187E C.AHR:   .ASCII  \: \
6E  69  42  20  34  6E  69  42  20  32  6E  69  42  28    01880 C.AHS:   .ASCII  \(Bin2 Bin4 Bin8 Int2 Int4 Int8 Decimal S\-
6E  49  20  34  74  6E  49  20  32  74  6E  49  20  38    0188E                  \tring)\<0><0>
72  74  53  20  6C  61  6D  69  63  65  44  20  38  74    0189C
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                                        00  79  65  4B    018B0 C.AHT:   .ASCII  \Key\<0>
4B  28  09  09  65  70  79  54  20  61  74  61  44  20    018B4 C.AHU:   .ASCII  \ Data Type\<9><9>\(Keyword)[Str]\<9>\: \-
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                                        00  00  00  20    018D0
6E  65  72  65  66  65  52  20  66  6F  20  79  65  4B    018D4 C.AHV:   .ASCII  \Key of Reference\<9><9>\(\<0>
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                        00  20  3A  09  5D  30  5B  29    018E8 C.AHW:   .ASCII  \)[0]\<9>\: \<0>
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2D  31  28  09  65  6E  69  66  65  44  20  6F  74  20    018FE                  <0><0><0>
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                                        20  3A  09  5D    01914 C.AHY:   .ASCII  \]\<9>\: \
75  74  65  52  5F  65  67  61  69  72  72  61  43  28    01918 C.AHZ:   .ASCII  \(Carriage_Return FORTRAN None Print)\
6E  6F  4E  20  4E  41  52  54  52  4F  46  20  6E  72      01926
                        29  74  6E  69  72  50  20  65      01934
72  74  6E  6F  43  20  65  67  61  69  72  72  61  43      0193C C.AIA:  .ASCII  \Carriage Control\<9><9>\(Keyword)[Carr]\-
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6C  62  61  69  72  61  56  20  64  65  78  69  46  28      01960 C.AIB:  .ASCII  \(Fixed Variable)\
                                                29  65      0196E
6C  62  61  69  72  61  56  20  64  65  78  69  46  28      01970 C.AIC:  .ASCII  \(Fixed Variable VFC)\
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20  6D  61  65  72  74  53  20  64  65  78  69  46  28      01984 C.AID:  .ASCII  \(Fixed Stream  CR _LF Undefined Variable\-
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56  20  65  6C  62  61  69  72  61  56  20  64  65  6E      019A0
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09  74  61  6D  72  6F  46  20  64  72  6F  63  65  52      019B4 C.AIE:  .ASCII  \Record Format\<9><9><9>\(Keyword)[Var]\-
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20  64  6C  65  69  46  20  6C  6F  72  74  6E  6F  43      019D8 C.AIF:  .ASCII  \Control Field Size\<9><9>\(1-\<0>
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                        00  20  3A  09  5D  32  5B  29      019F0 C.AIG:  .ASCII  \)[2]\<9>\: \<0>
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                                        00  00  09  09      01A24 C.AIN:  .ASCII  <9><9><0><0>
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65  53  20  65  70  79  54  20  68  70  61  72  47  20      01A2C C.AIP:  .ASCII  \ Graph Type Selection \<0><0>
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69  53  20  74  65  6B  63  75  42  09  65  6E  69  4C      01A44 C.AIQ:  .ASCII  \Line\<9>\Bucket Size vs Index Depth\-
65  44  20  78  65  64  6E  49  20  73  76  20  65  7A      01A52                 <9>\as a 2 dimensional plot\<0>
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00  74  6F  6C  70  20  6C  61  6E  6F  69  73  6E  65      01A6E
69  53  20  74  65  6B  63  75  42  09  6C  6C  69  46      01A7C C.AIR:  .ASCII  \Fill\<9>\Bucket Size vs     Load Fill Pe\-
64  61  6F  4C  20  20  20  20  20  73  76  20  65  7A      01A8A                 \rcent     vs Index Depth\
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44  20  78  65  64  6E  49  20  73  76  20  20  20  20      01AA6
                                        68  74  70  65      01AB4
7A  69  53  20  74  65  6B  63  75  42  09  79  65  4B      01AB8 C.AIS:  .ASCII  \Key\<9>\Bucket Size vs          Key Lengt\-
4B  20  20  20  20  20  20  20  20  20  73  76  20  65      01AC6                 \h         vs Index Depth\<0>
20  20  20  20  20  68  74  67  6E  65  4C  20  79  65      01AD4
65  44  20  78  65  64  6E  49  20  73  76  20  20  20      01AE2
                                        00  68  74  70      01AF0
20  74  65  6B  63  75  42  09  64  72  6F  63  65  52      01AF4 C.AIT:  .ASCII  \Record\<9>\Bucket Size vs       Record \-
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78  65  64  6E  49  20  73  76  20  20  20  20  20  20      01B1E
                        00  00  68  74  70  65  44  20      01B2C
69  53  20  74  65  6B  63  75  42  09  74  69  6E  49      01B34 C.AIU:  .ASCII  \Init\<9>\Bucket Size vs Initial Load Rec\-
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6F  43  20  64  72  6F  63  65  52  20  64  61  6F  4C      01B50
44  20  78  65  64  6E  49  20  73  76  20  74  6E  75      01B5E
                                        68  74  70  65      01B6C
7A  69  53  20  74  65  6B  63  75  42  09  64  64  41      01B70 C.AIV:  .ASCII  \Add\<9>\Bucket Size vs  Additional Recor\-
6E  6F  69  74  69  64  64  41  20  20  73  76  20  65      01B7E                 \d Count  vs Index Depth\<0>
6E  75  6F  43  20  64  72  6F  63  65  52  20  6C  61      01B8C
65  44  20  78  65  64  6E  49  20  73  76  20  20  74      01B9A
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                                        00  68  74  70     01BA8
79  65  4B  20  6C  6C  69  46  20  65  6E  69  4C  28     01BAC C.AIW:  .ASCII  \(Line Fill Key\<0><0>
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41  20  74  69  6E  49  20  64  72  6F  63  65  52  20     01BBC C.AIX:  .ASCII  \ Record Init Add)\<0><0><0>
                                00  00  00  29  64  64     01BCA
20  6F  74  20  65  70  79  74  20  68  70  61  72  47     01BD0 C.AIY:  .ASCII  \Graph type to display\<9><9>\(Keyword)[\-
77  79  65  4B  28  09  09  79  61  6C  70  73  69  64     01BDE                 <0><0><0>
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72  61  6C  75  6E  61  72  47  20  61  65  72  41  20     01C28 C.AJG:  .ASCII  \ Area Granularity Selection \
20  6E  6F  69  74  63  65  6C  65  53  20  79  74  69     01C36
71  71  71  71  71  71  6C  0E  30  29  1B  20  20  20     01C44 C.AJH:  .ASCII  \   \<27>\)0\<14>\lqqqqqqqqqqqqk\<15>\  \-
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71  71  71  71  6C  0E  20  20  20  20  20  0F  6B  71     01C6E
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        71  71  71  71  71  71  71  71  6C  0E  20  20     01C8A
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0E  20  30  20  20  20  0F  78  0E  20  20  61  74  61     01CAE                 <15>\   0 \<14>\x\<15>\ Key 0 Data  \-
20  61  74  61  44  20  30  20  79  65  4B  20  0F  78     01CBC                 <14>\x\<15>\   0 \<14>\x\<15>\ Key 0 Data\-
4B  20  0F  78  0E  20  30  20  20  20  0F  78  0E  20     01CCA                 \  \<14>\x\<15>\   0 \<14>\x\<15>
0F  78  0E  20  20  61  74  61  44  20  30  20  79  65     01CD8
        79  65  4B  20  0F  78  0E  20  30  20  20  20     01CE6
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0E  20  20  20  20  20  0F  78  0E  20  20  20  20  20     01D0E                 <15>\     \<14>\tqqqqqqqqqqqqqu\<15>\     \-
71  71  71  71  71  71  71  71  71  71  71  71  71  74     01D1C                 \ \<14>\tqqqqqqqqqqqqqu\<15>\     \<14>\t\
71  71  71  71  71  74  0E  20  20  20  20  20  0F  75     01D2A
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        71  71  71  71  71  71  71  71  71  74  0E  20     01D46
                                    00  00  00  20  0F     01D52         .ASCII  <15>\ \<0><0><0>
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4B  20  0F  78  0E  20  31  20  20  20  0F  78  0E  20     01D86                 \x \<14>\x\<15>\   1 \<14>\x\<15>
0F  78  0E  20  78  65  64  6E  49  20  30  20  79  65     01D94
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0E  20  20  20  20  20  0F  78  0E  20  20  20  20  20     01DCA                 <15>\     \<14>\x\<15>\               \-
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71  71  71  74  0E  20  20  20  20  20  0F  78  0E  20     01DE6                 <15>\     \<14>
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        71  71  71  71  71  71  71  74  0E  20  20  20     01E02
                                            00  20  0F     01E0E         .ASCII  <15>\ \<0>
44  20  6E  20  79  65  4B  20  0F  78  0E  20  20  20     01E18 C.AJM:  .ASCII  \   \<14>\x\<15>\ Key n Data  \<14>\x\-
0E  20  20  20  20  20  0F  78  0E  20  20  61  74  61     01E26                 <15>\     \<14>\x\<15>\ Key n Data  \-
20  61  74  61  44  20  6E  20  79  65  4B  20  0F  78     01E34                 <14>\x\<15>\   2 \<14>\x\<15>\ Key n Data\-
4B  20  0F  78  0E  20  32  20  20  20  0F  78  0E  20     01E42                 \  \<14>\x\<15>\   2 \<14>\x\<15>
0F  78  0E  20  20  61  74  61  44  20  6E  20  79  65     01E50
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                                    00  20  0F  78  0E   01E6A          .ASCII  <14>\x\<15>\ \<0>
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0E  20  20  20  20  20  0F  78  0E  20  20  20  20  20   01E86                  <15>\       \<14>\x\<15>\                 \-
20  20  20  20  20  20  20  20  20  20  20  20  0F  78   01E94                  <14>\x\<15>\        \<14>\x\<15>\              \-
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0F  78  0E  20  20  20  20  20  20  20  20  20  20  20   01EB0
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                                    00  00  00  20  0F   01ECA          .ASCII  <15>\ \<0><0><0>
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        79  65  4B  20  0F  78  0E  20  33  20  20  20   01F1E
                                    00  20  0F  78  0E   01F2A          .ASCII  <14>\x\<15>\ \<0>
71  71  71  71  71  71  71  71  71  6D  0E  20  20  20   01F38 C.AJP:   .ASCII  \   \<14>\mqqqqqqqqqqqqqqj\<15>\      \-
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0F  6A  71  71  71  71  71  71  71  71  71  71  71  71   01F54                  \qqqqqqqqqqj\<15>\      \<14>\mqqqqqqqqqqq\
71  71  71  71  71  71  71  6D  0E  20  20  20  20  20   01F62
0E  20  20  20  20  20  0F  6A  71  71  71  71  71  71   01F70
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                                            00  20  0F   01F8A          .ASCII  <15>\ \<0>
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54  20  20  20  20  20  20  20  20  20  20  20  20  20   01F9E                  \      Three (3)                Four (4)\<0>
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75  6F  46  20  20  20  20  20  20  20  20  20  20  20   01FC8
                                00  29  34  28  20  72   01FD6
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20  20  20   01FDC C.AJR:   .ASCII  \    +-------------+      +-------------+  \-
2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D  2D  2D   01FEA                  \    +-------------+      +-------------+\-
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2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20   02006
2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D   02014
                00  00  2B  2D  2D  2D  2D  2D  2D  2D   02022
74  61  44  20  30  20  79  65  4B  20  7C  20  30  20   0202C C.AJS:   .ASCII  \ 0 ¦ Key 0 Data   ¦    0 ¦ Key 0 Data   ¦  \-
79  65  4B  20  7C  20  30  20  20  20  7C  20  20  61   0203A                  \ 0 ¦ Key 0 Data   ¦    0 ¦ Key 0 Data   ¦\-
30  20  20  20  7C  20  20  61  74  61  44  20  30  20   02048                  <0><0>
20  61  74  61  44  20  30  20  79  65  4B  20  7C  20   02056
30  20  79  65  4B  20  7C  20  30  20  20  20  7C  20   02064
                00  00  7C  20  20  61  74  61  44  20   02072
20  20  20  20  20  20  20  20  20  20  7C  20  20  20   0207C C.AJT:   .ASCII  \    ¦             ¦      +-------------+  \-
2D  2D  2D  2D  2B  20  20  20  20  20  7C  20  20  20   0208A                  \    +-------------+      +-------------+\-
20  20  20  20  2B  2D  2D  2D  2D  2D  2D  2D  2D  2D   02098                  <0><0>
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20   020A6
2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D   020B4
                00  00  2B  2D  2D  2D  2D  2D  2D  2D   020C2
64  6E  49  20  30  20  79  65  4B  20  7C  20  20  20   020CC C.AJU:   .ASCII  \   ¦ Key 0 Index ¦    1 ¦ Key 0 Index ¦  \-
79  65  4B  20  7C  20  31  20  20  20  7C  20  78  65   020DA                  \ 1 ¦ Key 0 Index ¦    1 ¦ Key 0 Index ¦\-
31  20  20  20  7C  20  78  65  64  6E  49  20  30  20   020E8                  <0><0>
78  65  64  6E  49  20  30  20  79  65  4B  20  7C  20   020F6
30  20  79  65  4B  20  7C  20  31  20  20  20  7C  20   02104
                00  00  7C  20  78  65  64  6E  49  20   02112
20  20  20  20  20  20  20  20  20  20  7C  20  20  20   0211C C.AJV:   .ASCII  \    ¦             ¦      ¦             ¦  \-
20  20  20  20  7C  20  20  20  20  20  7C  20  20  20   0212A                  \    +-------------+      +-------------+\-
20  20  20  20  7C  20  20  20  20  20  20  20  20  20   02138                  <0><0>
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20   02146
```

```
2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D        02154
                00  00  2B  2D  2D  2D  2D  2D  2D  2D        02162
74  61  44  20  6E  20  79  65  4B  20  7C  20  20  20        0216C C.AJW:  .ASCII  \   ¦ Key n Data  ¦     ¦ Key n Data  ¦  \-
79  65  4B  20  7C  20  20  20  20  20  7C  20  20  61        0217A                 \ 2 ¦ Key n Data  ¦   2 ¦ Key n Data  ¦\-
32  20  20  20  7C  20  20  61  74  61  44  20  6E  20        02188                 <0><0>
20  61  74  61  44  20  6E  20  79  65  4B  20  7C  20        02196
6E  20  79  65  4B  20  7C  20  32  20  20  20  7C  20        021A4
                00  00  7C  20  20  61  74  61  44  20        021B2
20  20  20  20  20  20  20  20  20  20  7C  20  20  20        021BC C.AJX:  .ASCII  \   ¦             ¦     ¦             ¦  \-
20  20  20  20  7C  20  20  20  20  20  7C  20  20  20        021CA                 \   ¦             ¦     +-------------+\-
20  20  20  20  7C  20  20  20  20  20  20  20  20  20        021D8                 <0><0>
20  20  20  20  20  20  20  20  20  20  20  20  7C  20        021E6
2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  7C  20        021F4
                00  00  2B  2D  2D  2D  2D  2D  2D  2D        02202
64  6E  49  20  6E  20  79  65  4B  20  7C  20  20  20        0220C C.AJY:  .ASCII  \   ¦ Key n Index ¦     ¦ Key n Index ¦  \-
79  65  4B  20  7C  20  20  20  20  20  7C  20  78  65        0221A                 \   ¦ Key n Index ¦   3 ¦ Key n Index ¦\-
20  20  20  20  7C  20  78  65  64  6E  49  20  6E  20        02228                 <0><0>
78  65  64  6E  49  20  6E  20  79  65  4B  20  7C  20        02236
6E  20  79  65  4B  20  7C  20  33  20  20  20  7C  20        02244
                00  00  7C  20  78  65  64  6E  49  20        02252
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20  20  20        0225C C.AJZ:  .ASCII  \   +-------------+     +-------------+  \-
2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D  2D  2D        0226A                 \   +-------------+     +-------------+\-
20  20  20  20  2B  2D  2D  2D  2D  2D  2D  2D  2D  2D        02278                 <0><0>
2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2D  2B  20        02286
2D  2D  2D  2D  2D  2D  2B  20  20  20  20  20  2B  2D        02294
                00  00  2B  2D  2D  2D  2D  2D  2D  2D        022A2
29  31  28  20  65  6E  4F  20  20  20  20  20  20  20        022AC C.AKA:  .ASCII  \       One (1)              Two (2)       \-
54  20  20  20  20  20  20  20  20  20  20  20  20  20        022BA                 \      Three (3)             Four (4)\<0>
20  20  20  20  20  20  20  20  29  32  28  20  6F  77        022C8
20  29  33  28  20  65  65  72  68  54  20  20  20  20        022D6
75  6F  46  20  20  20  20  20  20  20  20  20  20  20        022E4
                                00  29  34  28  20  72        022F2
65  65  72  68  54  20  6F  77  54  20  65  6E  4F  28        022F8 C.AKB:  .ASCII  \(One Two Three Four Double)\<0>
00  29  65  6C  62  75  6F  44  20  72  75  6F  46  20        02306
22  65  6C  62  75  6F  44  22  20  65  70  79  54  28        02314 C.AKC:  .ASCII  \(Type "Double" to allocate 2 areas per k\-
32  20  65  74  61  63  6F  6C  6C  61  20  6F  74  20        02322                 \ey)\<0>
79  65  6B  20  72  65  70  20  73  61  65  72  61  20        02330
                                                00  29        0233E
61  65  72  61  20  66  6F  20  72  65  62  6D  75  4E        02340 C.AKD:  .ASCII  \Number of areas to allocate\<9>\(keyword\-
09  65  74  61  63  6F  6C  6C  61  20  6F  74  20  73        0234E                 \)[Three] : \<0>
65  72  68  54  5B  29  64  72  6F  77  79  65  6B  28        0235C
                                00  20  3A  20  5D  65        0236A
                                        00  00  09  09        02370 C.AKE:  .ASCII  <9><9><0><0>
45  53  20  72  6F  74  69  64  45  20  4C  44  46  20        02374 C.AKF:  .ASCII  \ FDL Editor SET Function \<0><0><0>
00  00  00  20  6E  6F  69  74  63  6E  75  46  20  54        02382
73  65  6C  69  66  09  73  69  73  79  6C  61  6E  41        02390 C.AKG:  .ASCII  \Analysis\<9>\filespec of FDL Analysis fi\-
61  6E  41  20  4C  44  46  20  66  6F  20  63  65  70        0239E                 \le\<0><0>
        00  00  65  6C  69  66  20  73  69  73  79  6C        023AC
20  65  70  79  74  09  09  79  61  6C  70  73  69  44        023B8 C.AKH:  .ASCII  \Display\<9><9>\type of graph to display\-
69  64  20  6F  74  20  68  70  61  72  67  20  66  6F        023C6                 <0><0><0>
                        00  00  00  79  61  6C  70  73        023D4
65  64  20  66  6F  09  73  69  73  61  68  70  6D  45        023DC C.AKI:  .ASCII  \Emphasis\<9>\of default bucketsize calcu\-
69  73  74  65  6B  63  75  62  20  74  6C  75  61  66        023EA                 \lations\<0>
6E  6F  69  74  61  6C  75  63  6C  61  63  20  65  7A        023F8
                                                00  73        02406
75  6E  09  79  74  69  72  61  6C  75  6E  61  72  47        02408 C.AKJ:  .ASCII  \Granularity\<9>\number of areas in Index\-
20  73  61  65  72  61  20  66  6F  20  72  65  62  6D        02416                 \ed files\
6C  69  66  20  64  65  78  65  64  6E  49  20  6E  69      02424
                                                73  65      02432
75  6E  09  73  79  65  4B  5F  72  65  62  6D  75  4E      02434 C.AKK:  .ASCII  \Number_Keys\<9>\number of keys in Indexe\-
69  20  73  79  65  6B  20  66  6F  20  72  65  62  6D      02442                 \d files\<0>
65  6C  69  66  20  64  65  78  65  64  6E  49  20  6E      02450
                                                00  73      0245E
70  73  65  6C  69  66  09  09  74  75  70  74  75  4F      02460 C.AKL:  .ASCII  \Output\<9><9>\filespec of FDL Output fil\-
70  74  75  4F  20  4C  44  46  20  66  6F  20  63  65      0246E                 \e\<0>
                        00  65  6C  69  66  20  74  75      0247C
6C  6C  75  46  09  67  6E  69  74  70  6D  6F  72  50      02484 C.AKM:  .ASCII  \Prompting\<9>\Full or Brief prompting of\-
6D  6F  72  70  20  66  65  69  72  42  20  72  6F  20      02492                 \ menus\<0><0>
73  75  6E  65  6D  20  66  6F  20  67  6E  69  74  70      024A0
                                                00  00      024AE
67  61  73  75  09  73  65  73  6E  6F  70  73  65  52      024B0 C.AKN:  .ASCII  \Responses\<9>\usage of default responses\-
72  20  74  6C  75  61  66  65  64  20  66  6F  20  65      024BE                 \ in scripts\<0>
63  73  20  6E  69  20  73  65  73  6E  6F  70  73  65      024CC
                                00  73  74  70  69  72      024DA
70  73  69  44  20  73  69  73  79  6C  61  6E  41  28      024E0 C.AKO:  .ASCII  \(Analysis Display Emphasis Granularity\-
47  20  73  69  73  61  68  70  6D  45  20  79  61  6C      024EE                 <0><0>
        00  00  79  74  69  72  61  6C  75  6E  61  72      024FC
4F  20  73  79  65  4B  5F  72  65  62  6D  75  4E  20      02508 C.AKP:  .ASCII  \ Number_Keys Output Prompting Responses)\
6E  69  74  70  6D  6F  72  50  20  74  75  70  74  75      02516
        29  73  65  73  6E  6F  70  73  65  52  20  67      02524
74  63  61  72  61  68  63  20  72  6F  74  69  64  45      02530 C.AKQ:  .ASCII  \Editor characteristic to set\<9>\(keywor\-
74  65  73  20  6F  74  20  63  69  74  73  69  72  65      0253E                 \d)\<0><0>
        00  00  29  64  72  6F  77  79  65  6B  28  09      0254C
                                        00  5D  2D  5B      02558 C.AKR:  .ASCII  \[-]\<0>
                                        00  20  3A  09      0255C C.AKS:  .ASCII  <9>\: \<0>
64  72  6F  63  65  52  20  6D  75  6D  69  78  61  4D      02560 C.AKT:  .ASCII  \Maximum Record Size\<9><9>\(\<0><0>
                00  00  28  09  09  65  7A  69  53  20      0256E
                                        00  5D  2D  5B      02578 C.AKU:  .ASCII  \[-]\<0>
                                        00  00  2C  30      0257C C.AKV:  .ASCII  \0,\<0><0>
                                        5D  30  5B  29      02580 C.AKW:  .ASCII  \)[0]\
                                        00  20  3A  20      02584 C.AKX:  .ASCII  \ : \<0>
                                        00  20  3A  09      02588 C.AKY:  .ASCII  <9>\: \<0>
                                        00  00  09  09      0258C C.AKZ:  .ASCII  <9><9><0><0>
79  72  61  6D  69  72  50  20  6C  61  67  65  4C  20      02590 C.ALA:  .ASCII  \ Legal Primary Attributes \<0><0>
00  00  20  73  65  74  75  62  69  72  74  74  41  20      0259E
75  62  69  72  74  74  61  09  53  53  45  43  43  41      025AC C.ALB:  .ASCII  \ACCESS\<9>\attributes set the run-time a\-
75  72  20  65  68  74  20  74  65  73  20  73  65  74      025BA                 \ccess mode of the file\<0><0>
20  73  73  65  63  63  61  20  65  6D  69  74  2D  6E      025C8
69  66  20  65  68  74  20  66  6F  20  65  64  6F  6D      025D6
                                        00  00  65  6C      025E4
75  62  69  72  74  74  61  09  78  20  41  45  52  41      025E8 C.ALC:  .ASCII  \AREA x\<9>\attributes define the charact\-
65  68  74  20  65  6E  69  66  65  64  20  73  65  74      025F6                 \eristics of file area x\<0>
69  74  73  69  72  65  74  63  61  72  61  68  63  20      02604
65  72  61  20  65  6C  69  66  20  66  6F  20  73  63      02612
                                        00  78  20  61      02620
62  69  72  74  74  61  09  54  43  45  4E  4E  4F  43      02624 C.ALD:  .ASCII  \CONNECT\<9>\attributes set various RMS r\-
6F  69  72  61  76  20  74  65  73  20  73  65  74  75      02632                 \un-time options\<0>
6D  69  74  2D  6E  75  72  20  53  4D  52  20  73  75      02640
                00  73  6E  6F  69  74  70  6F  20  65      0264E
65  74  75  62  69  72  74  74  61  09  45  54  41  44      02658 C.ALE:  .ASCII  \DATE\<9>\attributes set the date paramet\-
65  74  61  64  20  65  68  74  20  74  65  73  20  73      02666                 \ers of the file\<0>
66  6F  20  73  72  65  74  65  6D  61  72  61  70  20      02674
                00  65  6C  69  66  20  65  68  74  20      02682
65  74  75  62  69  72  74  74  61  09  45  4C  49  46      0268C C.ALF:  .ASCII  \FILE\<9>\attributes affect the entire RM\-
```

```
65  20  65  68  74  20  74  63  65  66  66  61  20  73          0269A                 \S data file\<0>
61  74  61  64  20  53  4D  52  20  65  72  69  74  6E          026A8
                                00  65  6C  69  66  20          026B6
62  69  72  74  74  61  09  4C  41  4E  52  55  4F  4A          026BC C.ALG:  .ASCII  \JOURNAL\<9>\attributes set the journalin\-
6A  20  65  68  74  20  74  65  73  20  73  65  74  75          026CA                 \g parameters of the file\
61  72  61  70  20  67  6E  69  6C  61  6E  72  75  6F          026D8
20  65  68  74  20  66  6F  20  73  72  65  74  65  6D          026E6
                                        65  6C  69  66          026F4
74  75  62  69  72  74  74  61  09  79  20  59  45  4B          026F8 C.ALH:  .ASCII  \KEY y\<9>\attributes define the characte\-
20  65  68  74  20  65  6E  69  66  65  64  20  73  65          02706                 \ristics of key y\
63  69  74  73  69  72  65  74  63  61  72  61  68  63          02714
                79  20  79  65  6B  20  66  6F  20  73          02722
75  62  69  72  74  74  61  09  44  52  4F  43  45  52          0272C C.ALI:  .ASCII  \RECORD\<9>\attributes set the non-key as\-
6F  6E  20  65  68  74  20  74  65  73  20  73  65  74          0273A                 \pects of each record\
20  73  74  63  65  70  73  61  20  79  65  6B  2D  6E          02748
64  72  6F  63  65  72  20  68  63  61  65  20  66  6F          02756
62  69  72  74  74  61  09  47  4E  49  52  41  48  53          02764 C.ALJ:  .ASCII  \SHARING\<9>\attributes set the run-time \-
72  20  65  68  74  20  74  65  73  20  73  65  74  75          02772                 \sharing mode of the file\
6E  69  72  61  68  73  20  65  6D  69  74  2D  6E  75          02780
20  65  68  74  20  66  6F  20  65  64  6F  6D  20  67          0278E
                                        65  6C  69  66          0279C
75  62  69  72  74  74  61  09  4D  45  54  53  59  53          027A0 C.ALK:  .ASCII  \SYSTEM\<9>\attributes document operating\-
6F  20  74  6E  65  6D  75  63  6F  64  20  73  65  74          027AE                 \ system-specific items\<0><0>
65  74  73  79  73  20  67  6E  69  74  61  72  65  70          027BC
65  74  69  20  63  69  66  69  63  65  70  73  2D  6D          027CA
                                        00  00  73  6D          027D8
68  20  65  68  74  20  73  69  09  45  4C  54  49  54          027DC C.ALL:  .ASCII  \TITLE\<9>\is the header line for the FDL\-
72  6F  66  20  65  6E  69  6C  20  72  65  64  61  65          027EA                 \ file\<0><0><0>
00  65  6C  69  66  20  4C  44  46  20  65  68  74  20          027F8
                                                00  00          02806
43  20  41  45  52  41  20  53  53  45  43  43  41  28          02808 C.ALM:  .ASCII  \(ACCESS AREA CONNECT DATE FILE JOURNAL\-
49  46  20  45  54  41  44  20  54  43  45  4E  4E  4F          02816                 <0><0>
        00  00  4C  41  4E  52  55  4F  4A  20  45  4C          02824
48  53  20  44  52  4F  43  45  52  20  59  45  4B  20          02830 C.ALN:  .ASCII  \ KEY RECORD SHARING SYSTEM TITLE)\<0>
54  20  4D  45  54  53  59  53  20  47  4E  49  52  41          0283E
                                00  29  45  4C  54  49          0284C
                                                09  09          02852 C.ALO:  .ASCII  <9><9>
61  6D  69  72  50  20  74  6E  65  72  72  75  43  20          02854 C.ALP:  .ASCII  \ Current Primary Attributes \
20  73  65  74  75  62  69  72  74  74  41  20  79  72          02862
20  72  6F  66  20  22  3F  22  20  65  70  79  54  28          02870 C.ALQ:  .ASCII  \(Type "?" for a list of existing Primary\-
73  69  78  65  20  66  6F  20  74  73  69  6C  20  61          0287E                 \ Attributes)\
41  20  79  72  61  6D  69  72  50  20  67  6E  69  74          0288C
                29  73  65  74  75  62  69  72  74  74          0289A
20  64  65  72  69  73  65  44  20  72  65  74  6E  45          028A4 C.ALR:  .ASCII  \Enter Desired Primary\<9><9>\(Keyword)[\-
77  79  65  4B  28  09  09  79  72  61  6D  69  72  50          028B2                 <0><0><0>
                        00  00  00  5B  29  64  72  6F          028C0
  0000006B   00000064   00000055   00000010   00000048          028C8 C.ALS:  .LONG   72,16,85,100,107,111,128,144,149,157,162,-
  0000009D   00000095   00000090   00000080   0000006F          028DC                 168,174,182,186,194,202,209
  000000BA   000000B6   000000AE   000000A8   000000A2          028F0
                        000000D1   000000CA   000000C2          02904
    45  50  59  54  5F  59  52  41  4D  49  52  50  0C          02910         .ASCII  <12>\PRIMARY_TYPE\
59  52  41  4D  49  52  50  5F  59  4D  4D  55  44  0E          0291D         .ASCII  <14>\DUMMY_PRIMARY$\
                                                    24          0292B
                            53  53  45  43  43  41  06          0292C         .ASCII  <6>\ACCESS\
                                        4C  43  41  03          02933         .ASCII  <3>\ACL\
41  5F  46  4F  5F  53  49  53  59  4C  41  4E  41  10          02937         .ASCII  <16>\ANALYSIS_OF_AREA\
                                            41  45  52          02945
```

EDF
V04-

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4B  5F  46  4F  5F  53  49  53  59  4C  41  4E  41  0F   02948          .ASCII   <15>\ANALYSIS_OF_KEY\
                                                59  45   02956
                                    41  45  52  41  04   02958          .ASCII   <4>\AREA\
                        54  43  45  4E  4E  4F  43  07   0295D          .ASCII   <7>\CONNECT\
                                    45  54  41  44  04   02965          .ASCII   <4>\DATE\
                                24  45  4C  49  46  05   0296A          .ASCII   <5>\FILE$\
                                54  4E  45  44  49  05   02970          .ASCII   <5>\IDENT\
                        4C  41  4E  52  55  4F  4A  07   02976          .ASCII   <7>\JOURNAL\
                                        59  45  4B  03   0297E          .ASCII   <3>\KEY\
                        24  44  52  4F  43  45  52  07   02982          .ASCII   <7>\RECORD$\
                        47  4E  49  52  41  48  53  07   0298A          .ASCII   <7>\SHARING\
                            4D  45  54  53  59  53  06   02992          .ASCII   <6>\SYSTEM\
                            00  45  4C  54  49  54  05   02999          .ASCII   <5>\TITLE\<0>
                                                08  20   029A0 C.ALT:   .BYTE    ^X20,8
                                                         029A2          .BLKB    2
                                        20  3A  20  5D   029A4 C.ALU:   .ASCII   \] : \
      00000000  00000000  00000000  00000000  00070000   029A8 C.ALV:   .LONG    ^X70000,0,0,0,0,0,0,0
                          00000000  00000000  00000000   029BC
      00000000  00000000  00000000  04410000  00000000   029C8 C.ALW:   .LONG    0,^X4410000,0,0,0,0,0,0
                          00000000  00000000  00000000   029DC
      00000000  00000000  00000000  00000000  00070000   029E8 C.ALX:   .LONG    ^X70000,0,0,0,0,0,0,0
                          00000000  00000000  00000000   029FC
      00000000  00000000  00000000  00000000  00000031   02A08 C.ALY:   .LONG    ^X31,0,0,0,0,0,0,0
                          00000000  00000000  00000000   02A1C
                                        3B  70  50  1B   02A28 C.ALZ:   .ASCII   <27>\Pp;\
28  57  28  54  3B  5D  35  38  32  2C  37  32  5B  50   02A2C C.AMA:   .ASCII   \P[27,285];T(W(I3))' Key:     Good    ';T(W\-
20  20  20  20  3A  79  65  4B  20  27  29  29  33  49   02A3A                   \(I2))'Fair    ';T(W(I1))'Poor';\<0><0>
49  28  57  28  54  3B  27  20  20  20  64  6F  6F  47   02A48
54  3B  27  20  20  20  72  69  61  46  27  29  29  32   02A56
3B  27  72  6F  6F  50  27  29  29  31  49  28  57  28   02A64
                                                00  00   02A72
28  57  28  54  3B  5D  30  32  33  2C  37  32  5B  50   02A74 C.AMB:   .ASCII   \P[27,320];T(W(I3))'\<0>
                                00  27  29  29  33  49   02A82
73  72  65  56  20  67  6F  6C  6F  72  50  2D  56  50   02A88 C.AMC:   .ASCII   \PV-Prolog Version        \
                20  20  20  20  20  20  20  6E  6F  69   02A96
                        00  00  79  65  4B  2D  54  4B   02AA0 C.AMD:   .ASCII   \KT-Key\<0><0>
        00  00  00  20  20  20  20  65  70  79  54  20   02AA8 C.AME:   .ASCII   \ Type     \<0><0><0>
                        20  32  6E  69  42  20  20  20   02AB4 C.AMF:   .ASCII   \   Bin2 \
                        20  34  6E  69  42  20  20  20   02ABC C.AMG:   .ASCII   \   Bin4 \
                        20  38  6E  69  42  20  20  20   02AC4 C.AMH:   .ASCII   \   Bin8 \
                        20  6C  61  6D  69  63  65  44   02ACC C.AMI:   .ASCII   \Decimal \
                        20  32  74  6E  49  20  20  20   02AD4 C.AMJ:   .ASCII   \   Int2 \
                        20  34  74  6E  49  20  20  20   02ADC C.AMK:   .ASCII   \   Int4 \
                        20  38  74  6E  49  20  20  20   02AE4 C.AML:   .ASCII   \   Int8 \
                        20  67  6E  69  72  74  53  20   02AEC C.AMM:   .ASCII   \ String \
00  20  20  73  69  73  61  68  70  6D  45  2D  4D  45   02AF4 C.AMN:   .ASCII   \EM-Emphasis  \<0><0><0>
                                                00  00   02B02
                        00  00  00  20  20  20  20  20   02B04 C.AMO:   .ASCII   \     \<0><0><0>
                        00  72  65  6C  6C  61  6D  53   02B0C C.AMP:   .ASCII   \Smaller\<0>
                        00  72  65  74  74  61  6C  46   02B14 C.AMQ:   .ASCII   \Flatter\<0>
                                        00  00  28  20   02B1C C.AMR:   .ASCII   \ (\<0><0>
        00  00  79  65  4B  20  70  75  44  2D  4B  44   02B20 C.AMS:   .ASCII   \DK-Dup Key\<0><0>
        00  00  00  20  20  73  65  75  6C  61  56  20   02B2C C.AMT:   .ASCII   \ Values  \<0><0><0>
                                        20  73  65  59   02B38 C.AMU:   .ASCII   \Yes \
                                        20  6F  4E  20   02B3C C.AMV:   .ASCII   \ No \
                        00  00  79  65  4B  2D  4C  4B   02B40 C.AMW:   .ASCII   \KL-Key\<0><0>
00  20  20  20  20  20  20  68  74  67  6E  65  4C  20   02B48 C.AMX:   .ASCII   \ Length      \<0><0><0>
```

```
                                                00  00     02B56
                        00  00  79  65  4B  2D  50  4B     02B58 C.AMY:   .ASCII   \KP-Key\<0><0>
        00  20  20  6E  6F  69  74  69  73  6F  50  20     02B60 C.AMZ:   .ASCII   \ Position  \<0>
64  72  6F  63  65  52  20  61  74  61  44  2D  43  52     02B6C C.ANA:   .ASCII   \RC-Data Record Comp  \<0>
                        00  20  20  70  6D  6F  43  20     02B7A
                                                20  25     02B82 C.ANB:   .ASCII   \% \
6F  43  20  79  65  4B  20  61  74  61  44  2D  43  4B     02B84 C.ANC:   .ASCII   \KC-Data Key Comp      \<0>
                        00  20  20  20  20  20  70  6D     02B92
                                                20  25     02B9A C.AND:   .ASCII   \% \
72  6F  63  65  52  20  78  65  64  6E  49  2D  43  49     02B9C C.ANE:   .ASCII   \IC-Index Record Comp \<0>
                        00  20  70  6D  6F  43  20  64     02BAA
                                                20  25     02BB2 C.ANF:   .ASCII   \% \
6C  6C  69  46  20  74  65  6B  63  75  42  2D  46  42     02BB4 C.ANG:   .ASCII   \BF-Bucket Fill       \<0>
                        00  20  20  20  20  20  20  20     02BC2
                                                20  25     02BCA C.ANH:   .ASCII   \% \
6D  72  6F  46  20  64  72  6F  63  65  52  2D  46  52     02BCC C.ANI:   .ASCII   \RF-Record Format \<0><0><0>
                                00  00  00  20  74  61     02BDA
        00  00  00  20  65  6C  62  61  69  72  61  56     02BE0 C.ANJ:   .ASCII   \Variable \<0><0><0>
        00  00  00  20  64  65  78  69  46  20  20  20     02BEC C.ANK:   .ASCII   \   Fixed \<0><0><0>
                                        00  2D  53  52     02BF8 C.ANL:   .ASCII   \RS-\<0>
69  53  20  64  72  6F  63  65  52  20  6E  61  65  4D     02BFC C.ANM:   .ASCII   \Mean Record Size \<0><0><0>
                                00  00  00  20  65  7A     02C0A
20  20  20  65  7A  69  53  20  64  72  6F  63  65  52     02C10 C.ANN:   .ASCII   \Record Size       \<0><0><0>
                                00  00  00  20  20  20     02C1E
64  6F  68  74  65  4D  20  64  61  6F  4C  2D  4D  4C     02C24 C.ANO:   .ASCII   \LM-Load Method \<0>
                                                00  20     02C32
        00  20  76  6E  6F  43  5F  74  73  61  46  20     02C34 C.ANP:   .ASCII   \ Fast_Conv \<0>
        00  20  6E  6F  43  5F  74  73  61  46  6F  4E     02C40 C.ANQ:   .ASCII   \NoFast_Con \<0>
        00  20  73  74  75  50  5F  53  4D  52  20  20     02C4C C.ANR:   .ASCII   \  RMS_Puts \<0>
61  6F  4C  20  6C  61  69  74  69  6E  49  2D  4C  49     02C58 C.ANS:   .ASCII   \IL-Initial Load \
                                                20  64     02C66
72  6F  63  65  52  20  64  65  64  64  41  2D  52  41     02C68 C.ANT:   .ASCII   \AR-Added Records\
                                                73  64     02C76
                                        5C  1B  3B  27     02C78 C.ANU:   .ASCII   \';\<27><92>
6F  20  6C  6C  69  46  20  6C  61  69  74  69  6E  49     02C7C C.ANV:   .ASCII   \Initial Fill of 50% assumed\<0>
00  64  65  6D  75  73  73  61  20  25  30  35  20  66     02C8A
  00000000   00000000   00000000   00000102   00000000     02C98 C.ANW:   .LONG    0,^X102,0,0,0,0,0,0
                        00000000   00000000   00000000     02CAC
  00000000   00000000   00000001   45010004   00000000     02CB8 C.ANX:   .LONG    0,^X45010004,1,0,0,0,0,0
                        00000000   00000000   00000000     02CCC
  00000000   00000000   00000000   00000000   00070000     02CD8 C.ANY:   .LONG    ^X70000,0,0,0,0,0,0,0
                        00000000   00000000   00000000     02CEC
75  20  72  6F  74  63  61  46  20  6C  6C  69  46  20     02CF8 C.ANZ:   .ASCII   \ Fill Factor used is 100% when Initial L\-
68  77  20  25  30  30  31  20  73  69  20  64  65  73     02D06                    \oad is zero. \<0><0><0>
61  6F  4C  20  6C  61  69  74  69  6E  49  20  6E  65     02D14
00  00  00  20  2E  6F  72  65  7A  20  73  69  20  64     02D22
  00000000   00000000   00000000   00000000   00006000     02D30 C.AOA:   .LONG    ^X6000,0,0,0,0,0,0,0
                        00000000   00000000   00000000     02D44
  00000000   00000000   00000000   00000000   00071000     02D50 C.AOB:   .LONG    ^X71000,0,0,0,0,0,0,0
                        00000000   00000000   00000000     02D64
  00000000   00000000   00000000   00000000   00000067     02D70 C.AOC:   .LONG    ^X67,0,0,0,0,0,0,0
                        00000000   00000000   00000000     02D84
        00  5C  1B  3B  29  45  28  53  3B  70  50  1B     02D90 C.AOD:   .ASCII   <27>\Pp;S(E);\<27><92><0>
                                        00  00  09  09     02D9C C.AOE:   .ASCII   <9><9><0><0>
00  53  53  45  43  43  41  20  6C  61  67  65  4C  20     02DA0 C.AOF:   .ASCII   \ Legal ACCESS\<0><0><0>
                                                00  00     02DAE
2F  73  65  79  09  09  4F  49  5F  4B  43  4F  4C  42     02DB0 C.AOG:   .ASCII   \BLOCK_IO\<9><9>\yes/no\
                                                6F  6E      02DBE
6E  2F  73  65  79  09  09  09  45  54  45  4C  45  44      02DC0 C.AOH:  .ASCII  \DELETE\<9><9><9>\yes/no\<0>
                                                00  6F      02DCE
        6F  6E  2F  73  65  79  09  09  09  54  45  47      02DD0 C.AOI:  .ASCII  \GET\<9><9><9>\yes/no\
        6F  6E  2F  73  65  79  09  09  09  54  55  50      02DDC C.AOJ:  .ASCII  \PUT\<9><9><9>\yes/no\
73  65  79  09  09  4F  49  5F  44  52  4F  43  45  52      02DE8 C.AOK:  .ASCII  \RECORD_IO\<9><9>\yes/no\<0><0><0>
                                00  00  00  6F  6E  2F      02DF6
2F  73  65  79  09  09  45  54  41  43  4E  55  52  54      02DFC C.AOL:  .ASCII  \TRUNCATE\<9><9>\yes/no\
                                                6F  6E      02E0A
6E  2F  73  65  79  09  09  09  45  54  41  44  50  55      02E0C C.AOM:  .ASCII  \UPDATE\<9><9><9>\yes/no\<0>
                                                00  6F      02E1A
                                        00  00  09  09      02E1C C.AON:  .ASCII  <9><9><0><0>
53  45  43  43  41  20  74  6E  65  72  72  75  43  20      02E20 C.AOO:  .ASCII  \ Current ACCESS\<0>
                                                00  53      02E2E
41  20  53  53  45  43  43  41  20  72  65  74  6E  45      02E30 C.AOP:  .ASCII  \Enter ACCESS Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74      02E3E                 <0><0><0>
                        00  00  00  29  64  72  6F  77      02E4C
                                        00  5D  2D  5B      02E54 C.AOQ:  .ASCII  \[-]\<0>
                                        00  20  3A  09      02E58 C.AOR:  .ASCII  <9>\: \<0>
                                        00  00  09  09      02E5C C.AOS:  .ASCII  <9><9><0><0>
        20  41  45  52  41  20  6C  61  67  65  4C  20      02E60 C.AOT:  .ASCII  \ Legal AREA \
75  6E  09  09  4E  4F  49  54  41  43  4F  4C  4C  41      02E6C C.AOU:  .ASCII  \ALLOCATION\<9><9>\number\<0><0>
                                00  00  72  65  62  6D      02E7A
49  54  4E  4F  43  5F  59  52  54  5F  54  53  45  42      02E80 C.AOV:  .ASCII  \BEST_TRY_CONTIGUOUS\<9>\yes/no\<0><0>
00  00  6F  6E  2F  73  65  79  09  53  55  4F  55  47      02E8E
6E  09  09  45  5A  49  53  5F  54  45  4B  43  55  42      02E9C C.AOW:  .ASCII  \BUCKET_SIZE\<9><9>\number\<0>
                                00  72  65  62  6D  75      02EAA
65  79  09  09  53  55  4F  55  47  49  54  4E  4F  43      02EB0 C.AOX:  .ASCII  \CONTIGUOUS\<9><9>\yes/no\<0><0>
                                00  00  6F  6E  2F  73      02EBE
4E  4F  49  54  49  53  4F  50  5F  54  43  41  58  45      02EC4 C.AOY:  .ASCII  \EXACT_POSITIONING\<9>\yes/no\
                6F  6E  2F  73  65  79  09  47  4E  49      02ED2
6D  75  6E  09  09  4E  4F  49  53  4E  45  54  58  45      02EDC C.AOZ:  .ASCII  \EXTENSION\<9><9>\number\<0><0><0>
                                00  00  00  72  65  62      02EEA
75  71  20  20  20  20  4E  4F  49  54  49  53  4F  50      02EF0 C.APA:  .ASCII  \POSITION    qualifier\<9>\number\
72  65  62  6D  75  6E  09  72  65  69  66  69  6C  61      02EFE
65  62  6D  75  6E  09  09  09  45  4D  55  4C  4F  56      02F0C C.APB:  .ASCII  \VOLUME\<9><9><9>\number\<0>
                                                00  72      02F1A
                                        00  00  09  09      02F1C C.APC:  .ASCII  <9><9><0><0>
20  41  45  52  41  20  74  6E  65  72  72  75  43  20      02F20 C.APD:  .ASCII  \ Current AREA \<0><0>
                                                00  00      02F2E
        00  20  41  45  52  41  20  72  65  74  6E  45      02F30 C.APE:  .ASCII  \Enter AREA \<0>
4B  28  09  09  65  74  75  62  69  72  74  74  41  20      02F3C C.APF:  .ASCII  \ Attribute\<9><9>\(Keyword)\<0><0><0>
                00  00  00  29  64  72  6F  77  79  65      02F4A
                                        00  5D  2D  5B      02F54 C.APG:  .ASCII  \[-]\<0>
                                        00  20  3A  09      02F58 C.APH:  .ASCII  <9>\: \<0>
                                        00  00  09  09      02F5C C.API:  .ASCII  <9><9><0><0>
54  43  45  4E  4E  4F  43  20  6C  61  67  65  4C  20      02F60 C.APJ:  .ASCII  \ Legal CONNECT\<0><0>
                                                00  00      02F6E
09  09  53  55  4F  4E  4F  52  48  43  4E  59  53  41      02F70 C.APK:  .ASCII  \ASYNCHRONOUS\<9><9>\yes/no\<9>\NOLOCK\-
09  4B  43  4F  4C  4F  4E  09  6F  6E  2F  73  65  79      02F7E                 <9><9><9>\yes/no\
                        6F  6E  2F  73  65  79  09  09      02F8C
2F  73  65  79  09  09  4F  49  5F  4B  43  4F  4C  42      02F94 C.APL:  .ASCII  \BLOCK_IO\<9><9>\yes/no\<9>\NONEXISTENT_R\-
54  4E  45  54  53  49  58  45  4E  4F  4E  09  6F  6E      02FA2                 \ECORD\<9>\yes/no\<0><0>
6F  6E  2F  73  65  79  09  44  52  4F  43  45  52  5F      02FB0
                                                00  00      02FBE
6E  09  09  45  44  4F  43  5F  54  45  4B  43  55  42      02FC0 C.APM:  .ASCII  \BUCKET_CODE\<9><9>\number\<9>\READ_AHEAD\-
45  48  41  5F  44  41  45  52  09  72  65  62  6D  75      02FCE                 <9><9>\yes/no\<0><0>
```

```
        00  00  6F  6E  2F  73  65  79  09  09  44  41      02FDC
62  6D  75  6E  09  09  09  54  58  45  54  4E  4F  43      02FE8 C.APN:   .ASCII  \CONTEXT\<9><9><9>\number\<9>\READ_REGARD\-
44  52  41  47  45  52  5F  44  41  45  52  09  72  65      02FF6                  \LESS\<9><9>\yes/no\
        6F  6E  2F  73  65  79  09  09  53  53  45  4C      03004
79  09  09  45  4C  49  46  5F  46  4F  5F  44  4E  45      03010 C.APO:   .ASCII  \END_OF_FILE\<9><9>\yes/no\<9>\TIMEOUT_EN\-
5F  54  55  4F  45  4D  49  54  09  6F  6E  2F  73  65      0301E                  \ABLE\<9><9>\yes/no\<0><0>
6F  6E  2F  73  65  79  09  09  45  4C  42  41  4E  45      0302C
                                                00  00      0303A
79  09  09  45  54  45  4C  45  44  5F  54  53  41  46      0303C C.APP:   .ASCII  \FAST_DELETE\<9><9>\yes/no\<9>\TIMEOUT_PE\-
5F  54  55  4F  45  4D  49  54  09  6F  6E  2F  73  65      0304A                  \RIOD\<9><9>\number\<0><0>
72  65  62  6D  75  6E  09  09  44  4F  49  52  45  50      03058
                                                00  00      03066
09  09  53  54  45  4B  43  55  42  5F  4C  4C  49  46      03068 C.APQ:   .ASCII  \FILL_BUCKETS\<9><9>\yes/no\<9>\TRUNCATE_\-
54  41  43  4E  55  52  54  09  6F  6E  2F  73  65  79      03076                  \ON_PUT\<9><9>\yes/no\
2F  73  65  79  09  09  54  55  50  5F  4E  4F  5F  45      03084
                                                6F  6E      03092
51  45  5F  52  45  54  41  45  52  47  5F  59  45  4B      03094 C.APR:   .ASCII  \KEY_GREATER_EQUAL\<9>\yes/no\<9>\TT_CANC\-
5F  54  54  09  6F  6E  2F  73  65  79  09  4C  41  55      030A2                  \EL_CONTROL_O\<9>\yes/no\<0>
4C  4F  52  54  4E  4F  43  5F  4C  45  43  4E  41  43      030B0
                00  6F  6E  2F  73  65  79  09  4F  5F      030BE
48  54  5F  52  45  54  41  45  52  47  5F  59  45  4B      030C8 C.APS:   .ASCII  \KEY_GREATER_THAN\<9>\yes/no\<9>\TT_PROMP\-
50  5F  54  54  09  6F  6E  2F  73  65  79  09  4E  41      030D6                  \T\<9><9>\yes/no\<0><0><0>
00  6F  6E  2F  73  65  79  09  09  54  50  4D  4F  52      030E4
                                                00  00      030F2
73  65  79  09  09  54  49  4D  49  4C  5F  59  45  4B      030F4 C.APT:   .ASCII  \KEY_LIMIT\<9><9>\yes/no\<9>\TT_PURGE_TYP\-
54  5F  45  47  52  55  50  5F  54  54  09  6F  6E  2F      03102                  \E_AHEAD\<9>\yes/no\
2F  73  65  79  09  44  41  45  48  41  5F  45  50  59      03110
                                                6F  6E      0311E
4E  45  52  45  46  45  52  5F  46  4F  5F  59  45  4B      03120 C.APU:   .ASCII  \KEY_OF_REFERENCE\<9>\number\<9>\TT_READ_\-
52  5F  54  54  09  72  65  62  6D  75  6E  09  45  43      0312E                  \NOECHO\<9><9>\yes/no\<0><0>
65  79  09  09  4F  48  43  45  4F  4E  5F  44  41  45      0313C
                                00  00  6F  6E  2F  73      0314A
79  09  09  45  44  4F  4D  5F  45  54  41  43  4F  4C      03150 C.APV:   .ASCII  \LOCATE_MODE\<9><9>\yes/no\<9>\TT_READ_NO\-
5F  44  41  45  52  5F  54  54  09  6F  6E  2F  73  65      0315E                  \FILTER\<9>\yes/no\<0>
6E  2F  73  65  79  09  52  45  54  4C  49  46  4F  4E      0316C
                                                00  6F      0317A
09  09  44  41  45  52  5F  4E  4F  5F  4B  43  4F  4C      0317C C.APW:   .ASCII  \LOCK_ON_READ\<9><9>\yes/no\<9>\TT_UPCASE\-
41  43  50  55  5F  54  54  09  6F  6E  2F  73  65  79      0318A                  \_INPUT\<9><9>\yes/no\
2F  73  65  79  09  09  54  55  50  4E  49  5F  45  53      03198
                                                6F  6E      031A6
09  45  54  49  52  57  5F  4E  4F  5F  4B  43  4F  4C      031A8 C.APX:   .ASCII  \LOCK_ON_WRITE\<9><9>\yes/no\<9>\UPDATE_I\-
45  54  41  44  50  55  09  6F  6E  2F  73  65  79  09      031B6                  \F\<9><9>\yes/no\<0>
        00  6F  6E  2F  73  65  79  09  09  46  49  5F      031C4
49  4B  43  4F  4C  4E  55  5F  4C  41  55  4E  41  4D      031D0 C.APY:   .ASCII  \MANUAL_UNLOCKING\<9>\yes/no\<9>\WAIT_FOR\-
54  49  41  57  09  6F  6E  2F  73  65  79  09  47  4E      031DE                  \_RECORD\<9><9>\yes/no\<0>
79  09  09  44  52  4F  43  45  52  5F  52  4F  46  5F      031EC
                                00  6F  6E  2F  73  65      031FA
55  4F  43  5F  4B  43  4F  4C  42  49  54  4C  55  4D      03200 C.APZ:   .ASCII  \MULTIBLOCK_COUNT\<9>\number\<9>\WRITE_BE\-
54  49  52  57  09  72  65  62  6D  75  6E  09  54  4E      0320E                  \HIND\<9><9>\yes/no\
2F  73  65  79  09  09  44  4E  49  48  45  42  5F  45      0321C
                                                6F  6E      0322A
4F  43  5F  52  45  46  46  55  42  49  54  4C  55  4D      0322C C.AQA:   .ASCII  \MULTIBUFFER_COUNT\<9>\number\
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                                        00  00  09  09      03244 C.AQB:   .ASCII  <9><9><0><0>
45  4E  4E  4F  43  20  74  6E  65  72  72  75  43  20      03248 C.AQC:   .ASCII  \ Current CONNECT\
                                                54  43      03256
20  54  43  45  4E  4E  4F  43  20  72  65  74  6E  45      03258 C.AQD:   .ASCII  \Enter CONNECT Attribute\<9><9>\(Keyword)\-
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                                        00  5D  2D  5B        0327C C.AQE:   .ASCII   \[-]\<0>
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        00  45  54  41  44  20  6C  61  67  65  4C  20        03288 C.AQH:   .ASCII   \ Legal DATE\<0>
6E  69  72  74  73  09  09  09  50  55  4B  43  41  42        03294 C.AQI:   .ASCII   \BACKUP\<9><9><9>\string\<0>
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69  72  74  73  09  09  4E  4F  49  54  41  45  52  43        032A4 C.AQJ:   .ASCII   \CREATION\<9><9>\string\
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74  73  09  09  4E  4F  49  54  41  52  49  50  58  45        032B4 C.AQK:   .ASCII   \EXPIRATION\<9><9>\string\<0><0>
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69  72  74  73  09  09  4E  4F  49  53  49  56  45  52        032C8 C.AQL:   .ASCII   \REVISION\<9><9>\string\
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74  74  41  20  45  54  41  44  20  72  65  74  6E  45        032EC C.AQO:   .ASCII   \Enter DATE Attribute\<9><9>\(Keyword)\<0>
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                                        00  29  64  72        03308
                                        00  5D  2D  5B        0330C C.AQP:   .ASCII   \[-]\<0>
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                                        00  00  09  09        03314 C.AQR:   .ASCII   <9><9><0><0>
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6D  75  6E  2F  72  61  68  63  09  09  4E  4F  49  54        03340
                                                00  00        0334E
49  54  4E  4F  43  5F  59  52  54  5F  54  53  45  42        03350 C.AQU:   .ASCII   \BEST_TRY_CONTIGUOUS\<9>\yes/no\<9>\NAME\-
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62  6D  75  6E  09  09  09  54  58  45  54  4E  4F  43        033CC C.AQX:   .ASCII   \CONTEXT\<9><9><9>\number\<9>\ORGANIZATIO\-
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09  09  45  4D  41  4E  5F  54  4C  55  41  46  45  44        03440 C.ARA:   .ASCII   \DEFAULT_NAME\<9><9>\string\<9>\PRINT_ON_\-
4F  5F  54  4E  49  52  50  09  67  6E  69  72  74  73        0344E                   \CLOSE\<9><9>\yes/no\<0>
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45  54  49  52  57  5F  44  45  52  52  45  46  45  44        0346C C.ARB:   .ASCII   \DEFERRED_WRITE\<9><9>\yes/no\<9>\PROTECT\-
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00  6F  6E  2F  73  65  79  09  09  4E  4F  49  54  43        03488
                                                00  00        03496
53  4F  4C  43  5F  4E  4F  5F  45  54  45  4C  45  44        03498 C.ARC:   .ASCII   \DELETE_ON_CLOSE\<9><9>\yes/no\<9>\READ_C\-
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44  41  45  52  09  6F  6E  2F  73  65  79  09  09  45    034A6                   \HECK\<9><9>\yes/no\<0><0>
6F  6E  2F  73  65  79  09  09  4B  43  45  48  43  5F    034B4
                                                00  00    034C2
52  54  4E  45  5F  59  52  4F  54  43  45  52  49  44    034C4 C.ARD:  .ASCII  \DIRECTORY_ENTRY\<9><9>\yes/no\<9>\REVISI\-
49  56  45  52  09  6F  6E  2F  73  65  79  09  09  59    034D2                 \ON\<9><9>\number\
        72  65  62  6D  75  6E  09  09  4E  4F  49  53    034E0
6D  75  6E  09  09  4E  4F  49  53  4E  45  54  58  45    034EC C.ARE:  .ASCII  \EXTENSION\<9><9>\number\<9>\SEQUENTIAL_O\-
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00  6F  6E  2F  73  65  79  09  09  59  4C  4E  4F  5F    03508
                                                00  00    03516
5F  52  45  46  46  55  42  5F  4C  41  42  4F  4C  47    03518 C.ARF:  .ASCII  \GLOBAL_BUFFER_COUNT\<9>\number\<9>\SUBMI\-
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                00  00  6F  6E  2F  73  65  79  09  09    03542
4D  55  4E  5F  44  52  4F  43  45  52  5F  58  41  4D    0354C C.ARG:  .ASCII  \MAX_RECORD_NUMBER\<9>\number\<9>\SUPERSE\-
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6F  6E  2F  73  65  79  09  09  45  44  45  53  52  45    03568
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00  6F  6E  2F  73  65  79  09  09  59  52  41  52  4F    03594
                                                00  00    035A2
09  45  5A  49  53  5F  4B  43  4F  4C  42  5F  54  4D    035A4 C.ARI:  .ASCII  \MT_BLOCK_SIZE\<9><9>\number\<9>\TRUNCATE\-
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4E  49  57  45  52  5F  45  53  4F  4C  43  5F  54  4D    035D4 C.ARJ:  .ASCII  \MT_CLOSE_REWIND\<9><9>\yes/no\<9>\USER_F\-
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                                                00  00    0366A
74  74  41  20  45  4C  49  46  20  72  65  74  6E  45    0366C C.ARO:  .ASCII  \Enter FILE Attribute\<9><9>\(Keyword)\<0>
6F  77  79  65  4B  28  09  09  65  74  75  62  69  72    0367A
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                                        00  5D  2D  5B    0368C C.ARP:  .ASCII  \[-]\<0>
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                                        00  00  09  09    03694 C.ARR:  .ASCII  <9><9><0><0>
4C  41  4E  52  55  4F  4A  20  6C  61  67  65  4C  20    03698 C.ARS:  .ASCII  \ Legal JOURNAL\<0><0>
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09  09  45  47  41  4D  49  5F  45  52  4F  46  45  42    036F8 C.ARX:  .ASCII  \BEFORE_IMAGE\<9><9>\yes/no\
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73  09  09  45  4D  41  4E  5F  45  52  4F  46  45  42      0370C C.ARY:  .ASCII  \BEFORE_NAME\<9><9>\string\<0>
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09  54  49  4E  55  5F  59  52  45  56  4F  43  45  52      03720 C.ARZ:  .ASCII  \RECOVERY_UNIT\<9><9>\keyword\
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                                                09  09      03736 C.ASA:  .ASCII  <9><9>
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                                                4C  41      03746
20  4C  41  4E  52  55  4F  4A  20  72  65  74  6E  45      03748 C.ASC:  .ASCII  \Enter JOURNAL Attribute\<9><9>\(Keyword)\-
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        00  00  59  45  4B  20  6C  61  67  65  4C  20      03778 C.ASG:  .ASCII  \ Legal KEY\<0><0>
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                                                00  00      037AE
6D  75  6E  09  09  41  45  52  41  5F  41  54  41  44      037B0 C.ASI:  .ASCII  \DATA_AREA\<9><9>\number\<9>\NAME\<9>-
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68  63  09  09  45  55  4C  41  56  5F  4C  4C  55  4E      03810
                                6D  75  6E  2F  72  61      0381E
4F  43  5F  44  52  4F  43  45  52  5F  41  54  41  44      03824 C.ASL:  .ASCII  \DATA_RECORD_COMPRESSION\<9>\yes/no\<9>\P\-
2F  73  65  79  09  4E  4F  49  53  53  45  52  50  4D      03832                 \OSITION\<9><9>\number\<0>
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                                                72  65      038C6
75  6E  09  09  4C  4C  49  46  5F  58  45  44  4E  49      038C8 C.ASP:  .ASCII  \INDEX_FILL\<9><9>\number\<9>\SEGn_POSITI\-
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65  62  6D  75  6E  09  09  09  48  54  47  4E  45  4C      038F0 C.ASQ:  .ASCII  \LENGTH\<9><9><9>\number\<0>
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                                        00  00  09  09      03900 C.ASR:  .ASCII  <9><9><0><0>
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        00  00  00  59  45  4B  20  72  65  74  6E  45      03910 C.AST:  .ASCII  \Enter KEY\<0><0><0>
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                                        00  5D  2D  5B      03934 C.ASV:  .ASCII  \[-]\<0>
                                        00  20  3A  09      03938 C.ASW:  .ASCII  <9>\: \<0>
                                        00  00  09  09      0393C C.ASX:  .ASCII  <9><9><0><0>
00  44  52  4F  43  45  52  20  6C  61  67  65  4C  20      03940 C.ASY:  .ASCII  \ Legal RECORD\<0><0><0>
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5F  44  4C  45  49  46  5F  4C  4F  52  54  4E  4F  43    0397C C.ATB:   .ASCII  \CONTROL_FIELD_SIZE\<9>\number\<0><0><0>
00  00  00  72  65  62  6D  75  6E  09  45  5A  49  53    0398A
6F  77  79  65  6B  09  09  09  54  41  4D  52  4F  46    03998 C.ATC:   .ASCII  \FORMAT\<9><9><9>\keyword\
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00  72  65  62  6D  75  6E  09  09  09  45  5A  49  53    039A8 C.ATD:   .ASCII  \SIZE\<9><9><9>\number\<0>
                                                09  09    039B6 C.ATE:   .ASCII  <9><9>
52  4F  43  45  52  20  74  6E  65  72  72  75  43  20    039B8 C.ATF:   .ASCII  \ Current RECORD\<0>
                                                00  44    039C6
41  20  44  52  4F  43  45  52  20  72  65  74  6E  45    039C8 C.ATG:   .ASCII  \Enter RECORD Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74    039D6                  <0><0><0>
                        00  00  00  29  64  72  6F  77    039E4
                                        00  5D  2D  5B    039EC C.ATH:   .ASCII  \[-]\<0>
                                        00  20  3A  09    039F0 C.ATI:   .ASCII  <9>\: \<0>
                                        00  00  09  09    039F4 C.ATJ:   .ASCII  <9><9><0><0>
47  4E  49  52  41  48  53  20  6C  61  67  65  4C  20    039F8 C.ATK:   .ASCII  \ Legal SHARING\<0><0>
                                                00  00    03A06
6E  2F  73  65  79  09  09  09  45  54  45  4C  45  44    03A08 C.ATL:   .ASCII  \DELETE\<9><9><9>\yes/no\<0>
                                                00  6F    03A16
        6F  6E  2F  73  65  79  09  09  09  54  45  47    03A18 C.ATM:   .ASCII  \GET\<9><9><9>\yes/no\
79  09  09  4D  41  45  52  54  53  49  54  4C  55  4D    03A24 C.ATN:   .ASCII  \MULTISTREAM\<9><9>\yes/no\<0>
                                00  6F  6E  2F  73  65    03A32
2F  73  65  79  09  09  54  49  42  49  48  4F  52  50    03A38 C.ATO:   .ASCII  \PROHIBIT\<9><9>\yes/no\
                                                6F  6E    03A46
        6F  6E  2F  73  65  79  09  09  09  54  55  50    03A48 C.ATP:   .ASCII  \PUT\<9><9><9>\yes/no\
6E  2F  73  65  79  09  09  09  45  54  41  44  50  55    03A54 C.ATQ:   .ASCII  \UPDATE\<9><9><9>\yes/no\<0>
                                                00  6F    03A62
4B  43  4F  4C  52  45  54  4E  49  5F  52  45  53  55    03A64 C.ATR:   .ASCII  \USER_INTERLOCK\<9><9>\yes/no\
                        6F  6E  2F  73  65  79  09  09    03A72
                                                09  09    03A7A C.ATS:   .ASCII  <9><9>
49  52  41  48  53  20  74  6E  65  72  72  75  43  20    03A7C C.ATT:   .ASCII  \ Current SHARING\
                                                47  4E    03A8A
20  47  4E  49  52  41  48  53  20  72  65  74  6E  45    03A8C C.ATU:   .ASCII  \Enter SHARING Attribute\<9><9>\(Keyword)\-
65  4B  28  09  09  65  74  75  62  69  72  74  74  41    03A9A                  <0><0>
                        00  00  29  64  72  6F  77  79    03AA8
                                        00  5D  2D  5B    03AB0 C.ATV:   .ASCII  \[-]\<0>
                                        00  20  3A  09    03AB4 C.ATW:   .ASCII  <9>\: \<0>
                                        00  00  09  09    03AB8 C.ATX:   .ASCII  <9><9><0><0>
00  4D  45  54  53  59  53  20  6C  61  67  65  4C  20    03ABC C.ATY:   .ASCII  \ Legal SYSTEM\<0><0><0>
                                                00  00    03ACA
6E  69  72  74  73  09  09  09  45  43  49  56  45  44    03ACC C.ATZ:   .ASCII  \DEVICE\<9><9><9>\string\<0>
                                                00  67    03ADA
6F  77  79  65  6B  09  09  09  45  43  52  55  4F  53    03ADC C.AUA:   .ASCII  \SOURCE\<9><9><9>\keyword\
                                                64  72    03AEA
6F  77  79  65  6B  09  09  09  54  45  47  52  41  54    03AEC C.AUB:   .ASCII  \TARGET\<9><9><9>\keyword\
                                                64  72    03AFA
                                        00  00  09  09    03AFC C.AUC:   .ASCII  <9><9><0><0>
45  54  53  59  53  20  74  6E  65  72  72  75  43  20    03B00 C.AUD:   .ASCII  \ Current SYSTEM\<0>
                                                00  4D    03B0E
41  20  4D  45  54  53  59  53  20  72  65  74  6E  45    03B10 C.AUE:   .ASCII  \Enter SYSTEM Attribute\<9><9>\(Keyword)\-
79  65  4B  28  09  09  65  74  75  62  69  72  74  74    03B1E                  <0><0><0>
                        00  00  00  29  64  72  6F  77    03B2C
                                        00  5D  2D  5B    03B34 C.AUF:   .ASCII  \[-]\<0>
                                        00  20  3A  09    03B38 C.AUG:  .ASCII  <9>\: \<0>
65  74  6E  65  20  65  75  6C  61  76  20  65  68  54    03B3C C.AUH:  .ASCII  \The value entered will be put into the D\-
75  70  20  65  62  20  6C  6C  69  77  20  64  65  72    03B4A                 \efinition.\<0><0>
66  65  44  20  65  68  74  20  6F  74  6E  69  20  74    03B58
                00  00  2E  6E  6F  69  74  69  6E  69    03B66
68  20  79  79  79  79  2D  6D  6D  6D  2D  64  64  28    03B70 C.AUI:  .ASCII  \(dd-mmm-yyyy hh:mm:ss.cc)\<0><0><0>
00  00  00  29  63  63  2E  73  73  3A  6D  6D  3A  68    03B7E
20  72  65  64  6E  69  6C  79  63  5F  79  6E  41  28    03B8C C.AUJ:  .ASCII  \(Any_cylinder Cylinder File_ID File_name\
5F  65  6C  69  46  20  72  65  64  6E  69  6C  79  43    03B9A
        65  6D  61  6E  5F  65  6C  69  46  20  44  49    03BA8
20  65  6E  6F  4E  20  6C  61  63  69  67  6F  4C  20    03BB4 C.AUK:  .ASCII  \ Logical None Virtual)\<0><0>
                00  00  29  6C  61  75  74  72  69  56    03BC2
4E  4F  49  54  49  53  4F  50  20  72  65  74  6E  45    03BCC C.AUL:  .ASCII  \Enter POSITION qualifier\<9>\(\<0><0>
00  00  28  09  72  65  69  66  69  6C  61  75  71  20    03BDA
6F  66  20  65  75  6C  61  76  20  72  65  74  6E  45    03BE8 C.AUM:  .ASCII  \Enter value for this Secondary\<9>\(\
61  64  6E  6F  63  65  53  20  73  69  68  74  20  72    03BF6
                                        28  09  79  72    03C04
74  61  6C  65  52  20  64  65  78  65  64  6E  49  28    03C08 C.AUN:  .ASCII  \(Indexed Relative Sequential)\<0><0><0>
6C  61  69  74  6E  65  75  71  65  53  20  65  76  69    03C16
                                        00  00  00  29    03C24
53  52  20  45  2F  53  54  53  52  20  53  41  49  28    03C28 C.AUO:  .ASCII  \(IAS RSTS/E RSX-11M RSX-11M-PLUS RT-11 V\-
2D  4D  31  31  2D  58  53  52  20  4D  31  31  2D  58    03C36                 \AX/VMS)\<0>
58  41  56  20  31  31  2D  54  52  20  53  55  4C  50    03C44
                                00  29  53  4D  56  2F    03C52
72  65  76  6F  63  65  72  5F  6E  69  5F  66  49  28    03C58 C.AUP:  .ASCII  \(If_in_recovery_unit Necessary_to_write \-
61  73  73  65  63  65  4E  20  74  69  6E  75  5F  79    03C66                 \Never_RU_journal None)\<0><0>
65  4E  20  65  74  69  72  77  5F  6F  74  5F  79  72    03C74
6C  61  6E  72  75  6F  6A  5F  55  52  5F  72  65  76    03C82
                        00  00  29  65  6E  6F  4E  20    03C90
75  74  65  72  5F  65  67  61  69  72  72  61  43  28    03C98 C.AUQ:  .ASCII  \(Carriage_return FORTRAN None Print)\
6E  6F  4E  20  4E  41  52  54  52  4F  46  20  6E  72    03CA6
                        29  74  6E  69  72  50  20  65    03CB4
20  6D  61  65  72  74  53  20  64  65  78  69  46  28    03CBC C.AUR:  .ASCII  \(Fixed Stream Stream_CR Stream_LF\<0>-
65  72  74  53  20  52  43  5F  6D  61  65  72  74  53    03CCA                 <0><0>
                        00  00  00  46  4C  5F  6D  61    03CD8
72  61  56  20  64  65  6E  69  66  65  64  6E  55  20    03CE0 C.AUS:  .ASCII  \ Undefined Variable VFC)\
                29  43  46  56  20  65  6C  62  61  69    03CEE
6E  69  42  20  34  6E  69  42  20  32  6E  69  42  28    03CF8 C.AUT:  .ASCII  \(Bin2 Bin4 Bin8 Decimal Int2 Int4 Int8 S\-
32  74  6E  49  20  6C  61  6D  69  63  65  44  20  38    03D06                 \tring)\<0><0>
72  74  53  20  38  74  6E  49  20  34  74  6E  49  20    03D14
                                00  00  29  67  6E  69    03D22
6F  66  20  65  75  6C  61  76  20  72  65  74  6E  45    03D28 C.AUU:  .ASCII  \Enter value for this Secondary\<9>\(Keyw\-
61  64  6E  6F  63  65  53  20  73  69  68  74  20  72    03D36                 \ord)\
        29  64  72  6F  77  79  65  4B  28  09  79  72    03D44
                                        00  5D  2D  5B    03D50 C.AUV:  .ASCII  \[-]\<0>
                                        00  20  3A  09    03D54 C.AUW:  .ASCII  <9>\: \<0>
                4C000000  00000000  00000000  00000000    03D58 C.AUX:  .LONG   0,0,0,^X4C000000
                                            00  00  00    03D68         .BYTE   0,0,0
                                                          03D6B         .BLKB   1
                        29  30  30  31  3C  73  62  41    03D6C C.AUY:  .ASCII  \Abs<100)\
                        29  61  67  69  47  31  2D  30    03D74 C.AUZ:  .ASCII  \0-1Giga)\
                                        00  00  2D  30    03D7C C.AVA:  .ASCII  \0-\<0><0>
                                        00  5D  2D  5B    03D80 C.AVB:  .ASCII  \[-]\<0>
                                        00  20  3A  20    03D84 C.AVC:  .ASCII  \ : \<0>
                                        00  20  3A  09    03D88 C.AVD:  .ASCII  <9>\: \<0>
                4C000000  00000000  00000000  00000000    03D8C C.AVE:  .LONG   0,0,0,^X4C000000
                                            00  00  00    03D9C         .BYTE   0,0,0
```

```
                                                                        03D9F           .BLKB    1
          00   00   00   29   72   74   73   2D   65   74   61   44     03DA0 C.AVF:    .ASCII   \Date-str)\<0><0><0>
                                                  00   5D   2D   5B     03DAC C.AVG:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03DB0 C.AVH:    .ASCII   <9>\: \<0>
75   6E   5B   29   73   72   61   68   63   20   32   33   2D   31     03DB4 C.AVI:    .ASCII   \1-32 chars)[null]\<9>\: \
                                        20   3A   09   5D   6C   6C     03DC2
6E   5B   29   73   72   61   68   63   20   36   32   31   2D   31     03DC8 C.AVJ:    .ASCII   \1-126 chars)[null]\
                                                  5D   6C   6C   75     03DD6
                                                            20   3A     03DDA C.AVK:    .ASCII   \: \
                              00   29   6F   4E   2F   73   65   59     03DDC C.AVL:    .ASCII   \Yes/No)\<0>
                                                  00   5D   2D   5B     03DE4 C.AVM:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03DE8 C.AVN:    .ASCII   <9>\: \<0>
                              29   72   74   73   2D   43   49   55     03DEC C.AVO:    .ASCII   \UIC-str)\
                                                  00   5D   2D   5B     03DF4 C.AVP:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03DF8 C.AVQ:    .ASCII   <9>\: \<0>
          00   00   00   29   72   74   73   2D   74   6F   72   50     03DFC C.AVR:    .ASCII   \Prot-str)\<0><0><0>
                                                  00   5D   2D   5B     03E08 C.AVS:    .ASCII   \[-]\<0>
                                                  00   00   20   3A     03E0C C.AVT:    .ASCII   \: \<0><0>
                              29   64   72   6F   77   79   65   4B     03E10 C.AVU:    .ASCII   \Keyword)\
                                                  00   5D   2D   5B     03E18 C.AVV:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03E1C C.AVW:    .ASCII   <9>\: \<0>
       00000000     00000000    00000000     00000000    00000041       03E20 C.AVX:    .LONG    ^X41,0,0,0,0,0,0,0
                                00000000     00000000    00000000       03E34
4E   4F   49   54   49   53   4F   50   20   72   65   74   6E   45     03E40 C.AVY:    .ASCII   \Enter POSITION value\<9><9>\(\<0>
                    00   28   09   09   65   75   6C   61   76   20     03E4E
                              29   61   67   69   47   31   2D   30     03E58 C.AVZ:    .ASCII   \0-1Giga)\
                                                  00   5D   2D   5B     03E60 C.AWA:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03E64 C.AWB:    .ASCII   <9>\: \<0>
                              29   72   74   73   2D   44   49   46     03E68 C.AWC:    .ASCII   \FID-str)\
                                                  00   5D   2D   5B     03E70 C.AWD:    .ASCII   \[-]\<0>
                                                  00   20   3A   09     03E74 C.AWE:    .ASCII   <9>\: \<0>
6E   5B   29   73   72   61   68   63   20   39   30   31   2D   31     03E78 C.AWF:    .ASCII   \1-109 chars)[null]\
                                                  5D   6C   6C   75     03E86
                                                            20   3A     03E8A C.AWG:    .ASCII   \: \
          00   29   6D   75   6E   2F   27   72   61   68   63   27     03E8C C.AWH:    .ASCII   \'char'/num)\<0>
                                                  00   5D   2D   5B     03E98 C.AWI:    .ASCII   \[-]\<0>
                                                       20   3A   09     03E9C C.AWJ:    .ASCII   <9>\: \

                                                                        00000 WRITE_HELP:                                                          ; 0190
                                                                   0000 00000           .WORD    ^M<>
                              32                13 00000000G    EF  CF  00002           CASEL    QTAB_OFFSET,#19,#50                                ; 0194
                                                               0000V    0000A           .DISPL   17$
                                                               0000V    0000C           .DISPL   17$
                                                               0000V    0000E           .DISPL   17$
                                                               0000V    00010           .DISPL   19$
                                                               0000V    00012           .DISPL   11$
                                                               0000V    00014           .DISPL   14$
                                                                0066    00016           .DISPL   102
                                                               0000V    00018           .DISPL   6$
                                                               0000V    0001A           .DISPL   7$
                                                               0000V    0001C           .DISPL   4$
                                                               0000V    0001E           .DISPL   3$
                                                               0000V    00020           .DISPL   5$
                                                                0066    00022           .DISPL   102
                                                               0000V    00024           .DISPL   18$
                                                               0000V    00026           .DISPL   32$
                                                               0000V    00028           .DISPL   13$
```

```
                          0000V     0002A         .DISPL   13$
                          0000V     0002C         .DISPL   13$
                          0000V     0002E         .DISPL   20$
                          0000V     00030         .DISPL   21$
                          0000V     00032         .DISPL   39$
                          0000V     00034         .DISPL   34$
                          0066      00036         .DISPL   102
                          0000V     00038         .DISPL   1$
                          0000V     0003A         .DISPL   26$
                          0000V     0003C         .DISPL   26$
                          0000V     0003E         .DISPL   26$
                          0066      00040         .DISPL   102
                          0066      00042         .DISPL   102
                          0000V     00044         .DISPL   12$
                          0000V     00046         .DISPL   12$
                          0000V     00048         .DISPL   12$
                          0000V     0004A         .DISPL   2$
                          0000V     0004C         .DISPL   15$
                          0000V     0004E         .DISPL   15$
                          0000V     00050         .DISPL   15$
                          0000V     00052         .DISPL   27$
                          0000V     00054         .DISPL   22$
                          0000V     00056         .DISPL   36$
                          0000V     00058         .DISPL   35$
                          0066      0005A         .DISPL   102
                          0000V     0005C         .DISPL   33$
                          0000V     0005E         .DISPL   10$
                          0000V     00060         .DISPL   16$
                          0000V     00062         .DISPL   9$
                          0000V     00064         .DISPL   31$
                          0000V     00066         .DISPL   8$
                          0066      00068         .DISPL   102
                          0066      0006A         .DISPL   102
                          0000V     0006C         .DISPL   35$
                          0000V     0006E         .DISPL   35$
                          0000V  31 00070         BRW      40$
               00000000G     EF  9F 00073 1$:     PUSHAB   SHIFT                                ; 0198
                             04  DD 00079         PUSHL    #4
               00000000G     EF  9F 0007B         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03  FB 00081         CALLS    #3,PAS$WRITE_STRING
               FFFFC0D3      EF  9F 00088         PUSHAB   C.AAA
                             32  DD 0008E         PUSHL    #50
               00000000G     EF  9F 00090         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03  FB 00096         CALLS    #3,PAS$WRITE_STRING
               00000000G     EF  9F 0009D         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                01  FB 000A3         CALLS    #1,PAS$WRITELN2
                          0000V  31 000AA         BRW      41$
               00000000G     EF  9F 000AD 2$:     PUSHAB   SHIFT                                ; 0202
                             04  DD 000B3         PUSHL    #4
               00000000G     EF  9F 000B5         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03  FB 000BB         CALLS    #3,PAS$WRITE_STRING
               FFFFC0CD      EF  9F 000C2         PUSHAB   C.AAB
                             34  DD 000C8         PUSHL    #52
               00000000G     EF  9F 000CA         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03  FB 000D0         CALLS    #3,PAS$WRITE_STRING
               00000000G     EF  9F 000D7         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                01  FB 000DD         CALLS    #1,PAS$WRITELN2
```

```
                      0000V   31 000E4        BRW     41$
               00000000G EF   9F 000E7 3$:    PUSHAB  SHIFT                              ; 0207
                         04   DD 000ED        PUSHL   #4
               00000000G EF   9F 000EF        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 000F5        CALLS   #3,PAS$WRITE_STRING
                FFFFC0C7 EF   9F 000FC        PUSHAB  C.AAC
                         2C   DD 00102        PUSHL   #44
               00000000G EF   9F 00104        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 0010A        CALLS   #3,PAS$WRITE_STRING
               00000000G EF   9F 00111        PUSHAB  CRLF_SHIFT
                         06   DD 00117        PUSHL   #6
               00000000G EF   9F 00119        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 0011F        CALLS   #3,PAS$WRITE_STRING
                FFFFC0C9 EF   9F 00126        PUSHAB  C.AAD
                         22   DD 0012C        PUSHL   #34
               00000000G EF   9F 0012E        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 00134        CALLS   #3,PAS$WRITE_STRING
               00000000G EF   9F 0013B        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01   FB 00141        CALLS   #1,PAS$WRITELN2
                      0000V   31 00148        BRW     41$
               00000000G EF   9F 0014B 4$:    PUSHAB  SHIFT                              ; 0213
                         04   DD 00151        PUSHL   #4
               00000000G EF   9F 00153        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 00159        CALLS   #3,PAS$WRITE_STRING
                FFFFC0B3 EF   9F 00160        PUSHAB  C.AAE
                         28   DD 00166        PUSHL   #40
               00000000G EF   9F 00168        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 0016E        CALLS   #3,PAS$WRITE_STRING
               00000000G EF   9F 00175        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01   FB 0017B        CALLS   #1,PAS$WRITELN2
                      0000V   31 00182        BRW     41$
               00000000G EF   9F 00185 5$:    PUSHAB  SHIFT                              ; 0217
                         04   DD 0018B        PUSHL   #4
               00000000G EF   9F 0018D        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 00193        CALLS   #3,PAS$WRITE_STRING
                FFFFC0A1 EF   9F 0019A        PUSHAB  C.AAF
                         28   DD 001A0        PUSHL   #40
               00000000G EF   9F 001A2        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 001A8        CALLS   #3,PAS$WRITE_STRING
               00000000G EF   9F 001AF        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01   FB 001B5        CALLS   #1,PAS$WRITELN2
                      0000V   31 001BC        BRW     41$
               00000000G EF   9F 001BF 6$:    PUSHAB  SHIFT                              ; 0221
                         04   DD 001C5        PUSHL   #4
               00000000G EF   9F 001C7        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 001CD        CALLS   #3,PAS$WRITE_STRING
                FFFFC08F EF   9F 001D4        PUSHAB  C.AAG
                         2D   DD 001DA        PUSHL   #45
               00000000G EF   9F 001DC        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 001E2        CALLS   #3,PAS$WRITE_STRING
               00000000G EF   9F 001E9        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            01   FB 001EF        CALLS   #1,PAS$WRITELN2
                      0000V   31 001F6        BRW     41$
               00000000G EF   9F 001F9 7$:    PUSHAB  SHIFT                              ; 0225
                         04   DD 001FF        PUSHL   #4
               00000000G EF   9F 00201        PUSHAB  PAS$FV_OUTPUT
00000000G  EF            03   FB 00207        CALLS   #3,PAS$WRITE_STRING
```

```
                    FFFFC085   EF   9F 0020E          PUSHAB  C.AAH
                               31   DD 00214          PUSHL   #49
                   00000000G   EF   9F 00216          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 0021C          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 00223          PUSHAB  CRLF_SHIFT
                               06   DD 00229          PUSHL   #6
                   00000000G   EF   9F 0022B          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 00231          CALLS   #3,PAS$WRITE_STRING
                    FFFFC08F   EF   9F 00238          PUSHAB  C.AAI
                               2D   DD 0023E          PUSHL   #45
                   00000000G   EF   9F 00240          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 00246          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 0024D          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              01   FB 00253          CALLS   #1,PAS$WRITELN2
                             0000V  31 0025A          BRW     41$
                   00000000G   EF   9F 0025D  8$:     PUSHAB  SHIFT                                    ; 0231
                               04   DD 00263          PUSHL   #4
                   00000000G   EF   9F 00265          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 0026B          CALLS   #3,PAS$WRITE_STRING
                    FFFFC085   EF   9F 00272          PUSHAB  C.AAJ
                               38   DD 00278          PUSHL   #56
                   00000000G   EF   9F 0027A          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 00280          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 00287          PUSHAB  CRLF_SHIFT
                               06   DD 0028D          PUSHL   #6
                   00000000G   EF   9F 0028F          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 00295          CALLS   #3,PAS$WRITE_STRING
                    FFFFC093   EF   9F 0029C          PUSHAB  C.AAK
                               19   DD 002A2          PUSHL   #25
                   00000000G   EF   9F 002A4          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 002AA          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 002B1          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              01   FB 002B7          CALLS   #1,PAS$WRITELN2
                             0000V  31 002BE          BRW     41$
                   00000000G   EF   9F 002C1  9$:     PUSHAB  SHIFT                                    ; 0237
                               04   DD 002C7          PUSHL   #4
                   00000000G   EF   9F 002C9          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 002CF          CALLS   #3,PAS$WRITE_STRING
                    FFFFC075   EF   9F 002D6          PUSHAB  C.AAL
                               2F   DD 002DC          PUSHL   #47
                   00000000G   EF   9F 002DE          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 002E4          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 002EB          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              01   FB 002F1          CALLS   #1,PAS$WRITELN2
                             0000V  31 002F8          BRW     41$
                   00000000G   EF   9F 002FB  10$:    PUSHAB  SHIFT                                    ; 0241
                               04   DD 00301          PUSHL   #4
                   00000000G   EF   9F 00303          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 00309          CALLS   #3,PAS$WRITE_STRING
                    FFFFC06B   EF   9F 00310          PUSHAB  C.AAM
                               2F   DD 00316          PUSHL   #47
                   00000000G   EF   9F 00318          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              03   FB 0031E          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF   9F 00325          PUSHAB  PAS$FV_OUTPUT
   00000000G   EF              01   FB 0032B          CALLS   #1,PAS$WRITELN2
                             0000V  31 00332          BRW     41$
                   00000000G   EF   9F 00335  11$:    PUSHAB  SHIFT                                    ; 0245
```

```
                                      04  DD 0033B          PUSHL   #4
                          00000000G   EF  9F 0033D          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 00343          CALLS   #3,PAS$WRITE_STRING
                          FFFFC061    EF  9F 0034A          PUSHAB  C.AAN
                                      37  DD 00350          PUSHL   #55
                          00000000G   EF  9F 00352          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 00358          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 0035F          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               01  FB 00365          CALLS   #1,PAS$WRITELN2
                                  0000V   31 0036C          BRW     41$
                          00000000G   EF  9F 0036F  12$:    PUSHAB  SHIFT                                      ; 0252
                                      04  DD 00375          PUSHL   #4
                          00000000G   EF  9F 00377          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 0037D          CALLS   #3,PAS$WRITE_STRING
                          FFFFC05F    EF  9F 00384          PUSHAB  C.AAO
                                      35  DD 0038A          PUSHL   #53
                          00000000G   EF  9F 0038C          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 00392          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 00399          PUSHAB  CRLF_SHIFT
                                      06  DD 0039F          PUSHL   #6
                          00000000G   EF  9F 003A1          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 003A7          CALLS   #3,PAS$WRITE_STRING
                          FFFFC06D    EF  9F 003AE          PUSHAB  C.AAP
                                      37  DD 003B4          PUSHL   #55
                          00000000G   EF  9F 003B6          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 003BC          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 003C3          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               01  FB 003C9          CALLS   #1,PAS$WRITELN2
                                  0000V   31 003D0          BRW     41$
                          00000000G   EF  9F 003D3  13$:    PUSHAB  SHIFT                                      ; 0260
                                      04  DD 003D9          PUSHL   #4
                          00000000G   EF  9F 003DB          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 003E1          CALLS   #3,PAS$WRITE_STRING
                          FFFFC06B    EF  9F 003E8          PUSHAB  C.AAQ
                                      38  DD 003EE          PUSHL   #56
                          00000000G   EF  9F 003F0          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 003F6          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 003FD          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               01  FB 00403          CALLS   #1,PAS$WRITELN2
                                  0000V   31 0040A          BRW     41$
                          00000000G   EF  9F 0040D  14$:    PUSHAB  SHIFT                                      ; 0265
                                      04  DD 00413          PUSHL   #4
                          00000000G   EF  9F 00415          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 0041B          CALLS   #3,PAS$WRITE_STRING
                          FFFFC069    EF  9F 00422          PUSHAB  C.AAR
                                      3A  DD 00428          PUSHL   #58
                          00000000G   EF  9F 0042A          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 00430          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 00437          PUSHAB  CRLF_SHIFT
                                      06  DD 0043D          PUSHL   #6
                          00000000G   EF  9F 0043F          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 00445          CALLS   #3,PAS$WRITE_STRING
                          FFFFC07B    EF  9F 0044C          PUSHAB  C.AAS
                                      34  DD 00452          PUSHL   #52
                          00000000G   EF  9F 00454          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF               03  FB 0045A          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF  9F 00461          PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF                01   FB 00467         CALLS    #1,PAS$WRITELN2
                           0000V  31 0046E         BRW      41$
                00000000G    EF   9F 00471  15$:   PUSHAB   SHIFT                          ; 0273
                             04   DD 00477         PUSHL    #4
                00000000G    EF   9F 00479         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 0047F         CALLS    #3,PAS$WRITE_STRING
                FFFFC075     EF   9F 00486         PUSHAB   C.AAT
                             31   DD 0048C         PUSHL    #49
                00000000G    EF   9F 0048E         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 00494         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 0049B         PUSHAB   CRLF_SHIFT
                             06   DD 004A1         PUSHL    #6
                00000000G    EF   9F 004A3         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 004A9         CALLS    #3,PAS$WRITE_STRING
                FFFFC07F     EF   9F 004B0         PUSHAB   C.AAU
                             3D   DD 004B6         PUSHL    #61
                00000000G    EF   9F 004B8         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 004BE         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 004C5         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                01   FB 004CB         CALLS    #1,PAS$WRITELN2
                           0000V  31 004D2         BRW      41$
                00000000G    EF   9F 004D5  16$:   PUSHAB   SHIFT                          ; 0279
                             04   DD 004DB         PUSHL    #4
                00000000G    EF   9F 004DD         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 004E3         CALLS    #3,PAS$WRITE_STRING
                FFFFC085     EF   9F 004EA         PUSHAB   C.AAV
                             34   DD 004F0         PUSHL    #52
                00000000G    EF   9F 004F2         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 004F8         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 004FF         PUSHAB   CRLF_SHIFT
                             06   DD 00505         PUSHL    #6
                00000000G    EF   9F 00507         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 0050D         CALLS    #3,PAS$WRITE_STRING
                FFFFC08F     EF   9F 00514         PUSHAB   C.AAW
                             33   DD 0051A         PUSHL    #51
                00000000G    EF   9F 0051C         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 00522         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 00529         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                01   FB 0052F         CALLS    #1,PAS$WRITELN2
                           0000V  31 00536         BRW      41$
                00000000G    EF   9F 00539  17$:   PUSHAB   SHIFT                          ; 0288
                             04   DD 0053F         PUSHL    #4
                00000000G    EF   9F 00541         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 00547         CALLS    #3,PAS$WRITE_STRING
                FFFFC089     EF   9F 0054E         PUSHAB   C.AAX
                             3A   DD 00554         PUSHL    #58
                00000000G    EF   9F 00556         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 0055C         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 00563         PUSHAB   CRLF_SHIFT
                             06   DD 00569         PUSHL    #6
                00000000G    EF   9F 0056B         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 00571         CALLS    #3,PAS$WRITE_STRING
                FFFFC09B     EF   9F 00578         PUSHAB   C.AAY
                             3D   DD 0057E         PUSHL    #61
                00000000G    EF   9F 00580         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                03   FB 00586         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF   9F 0058D         PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF             01   FB 00593         CALLS   #1,PAS$WRITELN2
                       0000V   31 0059A         BRW     41$
             00000000G    EF   9F 0059D  18$:   PUSHAB  SHIFT                              ; 0295
                          04   DD 005A3         PUSHL   #4
             00000000G    EF   9F 005A5         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 005AB         CALLS   #3,PAS$WRITE_STRING
             FFFFC0A1     EF   9F 005B2         PUSHAB  C.AAZ
                          35   DD 005B8         PUSHL   #53
             00000000G    EF   9F 005BA         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 005C0         CALLS   #3,PAS$WRITE_STRING
             00000000G    EF   9F 005C7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 005CD         CALLS   #1,PAS$WRITELN2
                       0000V   31 005D4         BRW     41$
             00000000G    EF   9F 005D7  19$:   PUSHAB  SHIFT                              ; 0300
                          04   DD 005DD         PUSHL   #4
             00000000G    EF   9F 005DF         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 005E5         CALLS   #3,PAS$WRITE_STRING
             FFFFC09F     EF   9F 005EC         PUSHAB  C.ABA
                          33   DD 005F2         PUSHL   #51
             00000000G    EF   9F 005F4         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 005FA         CALLS   #3,PAS$WRITE_STRING
             00000000G    EF   9F 00601         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 00607         CALLS   #1,PAS$WRITELN2
                       0000V   31 0060E         BRW     41$
             00000000G    EF   9F 00611  20$:   PUSHAB  SHIFT                              ; 0305
                          04   DD 00617         PUSHL   #4
             00000000G    EF   9F 00619         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 0061F         CALLS   #3,PAS$WRITE_STRING
             FFFFC099     EF   9F 00626         PUSHAB  C.ABB
                          3A   DD 0062C         PUSHL   #58
             00000000G    EF   9F 0062E         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00634         CALLS   #3,PAS$WRITE_STRING
             00000000G    EF   9F 0063B         PUSHAB  CRLF_SHIFT
                          06   DD 00641         PUSHL   #6
             00000000G    EF   9F 00643         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00649         CALLS   #3,PAS$WRITE_STRING
             FFFFC0AB     EF   9F 00650         PUSHAB  C.ABC
                          38   DD 00656         PUSHL   #56
             00000000G    EF   9F 00658         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 0065E         CALLS   #3,PAS$WRITE_STRING
             00000000G    EF   9F 00665         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01   FB 0066B         CALLS   #1,PAS$WRITELN2
                       0000V   31 00672         BRW     41$
             00000000G    EF   9F 00675  21$:   PUSHAB  SHIFT                              ; 0312
                          04   DD 0067B         PUSHL   #4
             00000000G    EF   9F 0067D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00683         CALLS   #3,PAS$WRITE_STRING
             FFFFC0A9     EF   9F 0068A         PUSHAB  C.ABD
                          34   DD 00690         PUSHL   #52
             00000000G    EF   9F 00692         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 00698         CALLS   #3,PAS$WRITE_STRING
             00000000G    EF   9F 0069F         PUSHAB  CRLF_SHIFT
                          06   DD 006A5         PUSHL   #6
             00000000G    EF   9F 006A7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03   FB 006AD         CALLS   #3,PAS$WRITE_STRING
             FFFFC0B3     EF   9F 006B4         PUSHAB  C.ABE
                          32   DD 006BA         PUSHL   #50
```

```
                  00000000G  EF   9F 006BC      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 006C2      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 006C9      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 006CF      CALLS   #1,PAS$WRITELN2
                          0000V   31 006D6      BRW     41$
00V00000000G  EF             00   E1 006D9 22$: BBC     #0,WAIT_HELP,24$        ; 0319
                  00000000G  EF   9F 006E1      PUSHAB  SHIFT                   ; 0321
                             04   DD 006E7      PUSHL   #4
                  00000000G  EF   9F 006E9      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 006EF      CALLS   #3,PAS$WRITE_STRING
                   FFFFC0A5  EF   9F 006F6      PUSHAB  C.ABF
                             34   DD 006FC      PUSHL   #52
                  00000000G  EF   9F 006FE      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00704      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 0070B      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 00711      CALLS   #1,PAS$WRITELN2
                          0000V   31 00718      BRW     41$
                  00000000G  EF   9F 0071B 24$: PUSHAB  SHIFT                   ; 0326
                             04   DD 00721      PUSHL   #4
                  00000000G  EF   9F 00723      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00729      CALLS   #3,PAS$WRITE_STRING
                   FFFFC09F  EF   9F 00730      PUSHAB  C.ABG
                             39   DD 00736      PUSHL   #57
                  00000000G  EF   9F 00738      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 0073E      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 00745      PUSHAB  CRLF_SHIFT
                             06   DD 0074B      PUSHL   #6
                  00000000G  EF   9F 0074D      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00753      CALLS   #3,PAS$WRITE_STRING
                   FFFFC0B1  EF   9F 0075A      PUSHAB  C.ABH
                             3B   DD 00760      PUSHL   #59
                  00000000G  EF   9F 00762      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00768      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 0076F      PUSHAB  CRLF_SHIFT
                             06   DD 00775      PUSHL   #6
                  00000000G  EF   9F 00777      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 0077D      CALLS   #3,PAS$WRITE_STRING
                   FFFFC0C3  EF   9F 00784      PUSHAB  C.ABI
                             3C   DD 0078A      PUSHL   #60
                  00000000G  EF   9F 0078C      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 00792      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 00799      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 0079F      CALLS   #1,PAS$WRITELN2
                          0000V   31 007A6      BRW     41$
                  00000000G  EF   9F 007A9 26$: PUSHAB  SHIFT                   ; 0337
                             04   DD 007AF      PUSHL   #4
                  00000000G  EF   9F 007B1      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 007B7      CALLS   #3,PAS$WRITE_STRING
                   FFFFC0C5  EF   9F 007BE      PUSHAB  C.ABJ
                             2D   DD 007C4      PUSHL   #45
                  00000000G  EF   9F 007C6      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 007CC      CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 007D3      PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 007D9      CALLS   #1,PAS$WRITELN2
                          0000V   31 007E0      BRW     41$
00V00000000G  EF             00   E1 007E3 27$: BBC     #0,WAIT_HELP,29$        ; 0343
                  00000000G  EF   9F 007EB      PUSHAB  SHIFT                   ; 0345
```

```
                                 04   DD 007F1          PUSHL   #4
                      00000000G  EF   9F 007F3          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 007F9          CALLS   #3,PAS$WRITE_STRING
                      FFFFC0B3   EF   9F 00800          PUSHAB  C.ABK
                                 39   DD 00806          PUSHL   #57
                      00000000G  EF   9F 00808          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 0080E          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 00815          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01   FB 0081B          CALLS   #1,PAS$WRITELN2
                               0000V  31 00822          BRW     41$
                      00000000G  EF   9F 00825 29$:     PUSHAB  SHIFT                                    ; 0350
                                 04   DD 0082B          PUSHL   #4
                      00000000G  EF   9F 0082D          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 00833          CALLS   #3,PAS$WRITE_STRING
                      FFFFC0B5   EF   9F 0083A          PUSHAB  C.ABL
                                 03   DD 00840          PUSHL   #3
                      00000000G  EF   9F 00842          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 00848          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 0084F          PUSHAB  CRLF_SHIFT
                                 06   DD 00855          PUSHL   #6
                      00000000G  EF   9F 00857          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 0085D          CALLS   #3,PAS$WRITE_STRING
                      FFFFC08F   EF   9F 00864          PUSHAB  C.ABM
                                 39   DD 0086A          PUSHL   #57
                      00000000G  EF   9F 0086C          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 00872          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 00879          PUSHAB  CRLF_SHIFT
                                 06   DD 0087F          PUSHL   #6
                      00000000G  EF   9F 00881          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 00887          CALLS   #3,PAS$WRITE_STRING
                      FFFFC0A1   EF   9F 0088E          PUSHAB  C.ABN
                                 36   DD 00894          PUSHL   #54
                      00000000G  EF   9F 00896          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 0089C          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 008A3          PUSHAB  CRLF_SHIFT
                                 06   DD 008A9          PUSHL   #6
                      00000000G  EF   9F 008AB          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 008B1          CALLS   #3,PAS$WRITE_STRING
                      FFFFC0AF   EF   9F 008B8          PUSHAB  C.ABO
                                 37   DD 008BE          PUSHL   #55
                      00000000G  EF   9F 008C0          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 008C6          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 008CD          PUSHAB  CRLF_SHIFT
                                 06   DD 008D3          PUSHL   #6
                      00000000G  EF   9F 008D5          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 008DB          CALLS   #3,PAS$WRITE_STRING
                      FFFFC0BD   EF   9F 008E2          PUSHAB  C.ABP
                                 39   DD 008E8          PUSHL   #57
                      00000000G  EF   9F 008EA          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 008F0          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 008F7          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01   FB 008FD          CALLS   #1,PAS$WRITELN2
                               0000V  31 00904          BRW     41$
                      00000000G  EF   9F 00907 31$:     PUSHAB  SHIFT                                    ; 0365
                                 04   DD 0090D          PUSHL   #4
                      00000000G  EF   9F 0090F          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03   FB 00915          CALLS   #3,PAS$WRITE_STRING
```

```
                FFFFC0BF   EF   9F 0091C          PUSHAB  C.ABQ
                           29   DD 00922          PUSHL   #41
                00000000G  EF   9F 00924          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 0092A          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 00931          PUSHAB  CRLF_SHIFT
                           06   DD 00937          PUSHL   #6
                00000000G  EF   9F 00939          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 0093F          CALLS   #3,PAS$WRITE_STRING
                FFFFC0C1   EF   9F 00946          PUSHAB  C.ABR
                           3C   DD 0094C          PUSHL   #60
                00000000G  EF   9F 0094E          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 00954          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 0095B          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             01   FB 00961          CALLS   #1,PAS$WRITELN2
                       0000V    31 00968          BRW     41$
                00000000G  EF   9F 0096B  32$:    PUSHAB  SHIFT                                         ; 0371
                           04   DD 00971          PUSHL   #4
                00000000G  EF   9F 00973          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 00979          CALLS   #3,PAS$WRITE_STRING
                FFFFC0C3   EF   9F 00980          PUSHAB  C.ABS
                           1E   DD 00986          PUSHL   #30
                00000000G  EF   9F 00988          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 0098E          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 00995          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             01   FB 0099B          CALLS   #1,PAS$WRITELN2
                       0000V    31 009A2          BRW     41$
                00000000G  EF   9F 009A5  33$:    PUSHAB  SHIFT                                         ; 0375
                           04   DD 009AB          PUSHL   #4
                00000000G  EF   9F 009AD          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 009B3          CALLS   #3,PAS$WRITE_STRING
                FFFFC0A9   EF   9F 009BA          PUSHAB  C.ABT
                           2C   DD 009C0          PUSHL   #44
                00000000G  EF   9F 009C2          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 009C8          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 009CF          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             01   FB 009D5          CALLS   #1,PAS$WRITELN2
                       0000V    31 009DC          BRW     41$
                00000000G  EF   9F 009DF  34$:    PUSHAB  SHIFT                                         ; 0379
                           04   DD 009E5          PUSHL   #4
                00000000G  EF   9F 009E7          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 009ED          CALLS   #3,PAS$WRITE_STRING
                FFFFC09B   EF   9F 009F4          PUSHAB  C.ABU
                           2F   DD 009FA          PUSHL   #47
                00000000G  EF   9F 009FC          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 00A02          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 00A09          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             01   FB 00A0F          CALLS   #1,PAS$WRITELN2
                       0000V    31 00A16          BRW     41$
                00000000G  EF   9F 00A19  35$:    PUSHAB  SHIFT                                         ; 0385
                           04   DD 00A1F          PUSHL   #4
                00000000G  EF   9F 00A21          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 00A27          CALLS   #3,PAS$WRITE_STRING
                FFFFC091   EF   9F 00A2E          PUSHAB  C.ABV
                           2C   DD 00A34          PUSHL   #44
                00000000G  EF   9F 00A36          PUSHAB  PAS$FV_OUTPUT
00000000G   EF             03   FB 00A3C          CALLS   #3,PAS$WRITE_STRING
                00000000G  EF   9F 00A43          PUSHAB  PAS$FV_OUTPUT
```

```
              00000000G EF                01   FB 00A49         CALLS   #1,PAS$WRITELN2
                                       0000V   31 00A50         BRW     41$
                          00000000G       EF   9F 00A53 36$:    PUSHAB  SHIFT                            ; 0391
                                          04   DD 00A59         PUSHL   #4
                          00000000G       EF   9F 00A5B         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00A61         CALLS   #3,PAS$WRITE_STRING
                           FFFFC083       EF   9F 00A68         PUSHAB  C.ABW
                                          3C   DD 00A6E         PUSHL   #60
                          00000000G       EF   9F 00A70         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00A76         CALLS   #3,PAS$WRITE_STRING
                          00000000G       EF   9F 00A7D         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                01   FB 00A83         CALLS   #1,PAS$WRITELN2
                        03 00000108G      EF   D1 00A8A         CMPL    IDATA+264,#3                     ; 0394
                                         00V   13 00A91         BEQL    38$
                          00000000G       EF   9F 00A93         PUSHAB  SHIFT                            ; 0396
                                          04   DD 00A99         PUSHL   #4
                          00000000G       EF   9F 00A9B         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00AA1         CALLS   #3,PAS$WRITE_STRING
                           FFFFC07F       EF   9F 00AA8         PUSHAB  C.ABX
                                          2C   DD 00AAE         PUSHL   #44
                          00000000G       EF   9F 00AB0         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00AB6         CALLS   #3,PAS$WRITE_STRING
                          00000000G       EF   9F 00ABD         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                01   FB 00AC3         CALLS   #1,PAS$WRITELN2
                                         00V   11 00ACA 38$:    BRB     41$
                          00000000G       EF   9F 00ACC 39$:    PUSHAB  SHIFT                            ; 0403
                                          04   DD 00AD2         PUSHL   #4
                          00000000G       EF   9F 00AD4         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00ADA         CALLS   #3,PAS$WRITE_STRING
                           FFFFC072       EF   9F 00AE1         PUSHAB  C.ABY
                                          2C   DD 00AE7         PUSHL   #44
                          00000000G       EF   9F 00AE9         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                03   FB 00AEF         CALLS   #3,PAS$WRITE_STRING
                          00000000G       EF   9F 00AF6         PUSHAB  PAS$FV_OUTPUT
              00000000G EF                01   FB 00AFC         CALLS   #1,PAS$WRITELN2
                                         00V   11 00B03         BRB     41$
                                                  00B05 40$:
           00V00000000G EF                00   E1 00B05 41$:    BBC     #0,WAIT_HELP,44$                 ; 0411
           00V00000000G EF                00   E0 00B0D         BBS     #0,AUTO_TUNE,44$
                           00004140       8F   DF 00B15         PUSHAF  #^F3.0                           ; 0417
              00000000G EF                01   FB 00B1B         CALLS   #1,LIB$WAIT
                                               04 00B22 44$:    RET                                      ; 0419

; Routine Size: 2851 bytes,    Routine Base: $CODE + 03E9F

                                                  00000 WRITE_QUESTION:                                  ; 0464
                                             0000 00000         .WORD   ^M<>
                       5E                 04   C2 00002         SUBL2   #4,SP
             3C         0B 00000000G      EF   CF 00005         CASEL   QTAB_OFFSET,#11,#60              ; 0468
                                       0000V      0000D         .DISPL  93$
                                       0000V      0000F         .DISPL  96$
                                       0000V      00011         .DISPL  97$
                                       0000V      00013         .DISPL  94$
                                       0000V      00015         .DISPL  95$
                                        007A      00017         .DISPL  122
                                        007A      00019         .DISPL  122
                                        007A      0001B         .DISPL  122
```

```
                                   0000V       0001D          .DISPL   73$
                                   0000V       0001F          .DISPL   74$
                                   0000V       00021          .DISPL   75$
                                   0000V       00023          .DISPL   78$
                                   0000V       00025          .DISPL   65$
                                   0000V       00027          .DISPL   77$
                                   0000V       00029          .DISPL   92$
                                   0000V       0002B          .DISPL   48$
                                   0000V       0002D          .DISPL   49$
                                   0000V       0002F          .DISPL   43$
                                   0000V       00031          .DISPL   37$
                                   0000V       00033          .DISPL   44$
                                   0000V       00035          .DISPL   25$
                                   0000V       00037          .DISPL   76$
                                   0000V       00039          .DISPL   99$
                                   0000V       0003B          .DISPL   69$
                                   0000V       0003D          .DISPL   6$
                                   0000V       0003F          .DISPL   7$
                                   0000V       00041          .DISPL   83$
                                   0000V       00043          .DISPL   87$
                                   0000V       00045          .DISPL   101$
                                   0000V       00047          .DISPL   108$
                                   0000V       00049          .DISPL   27$
                                   0000V       0004B          .DISPL   26$
                                   0000V       0004D          .DISPL   91$
                                   0000V       0004F          .DISPL   18$
                                   0000V       00051          .DISPL   19$
                                   007A        00053          .DISPL   122
                                   0000V       00055          .DISPL   134$
                                   0000V       00057          .DISPL   51$
                                   0000V       00059          .DISPL   1$
                                   0000V       0005B          .DISPL   2$
                                   0000V       0005D          .DISPL   34$
                                   0000V       0005F          .DISPL   11$
                                   0000V       00061          .DISPL   12$
                                   0000V       00063          .DISPL   80$
                                   0000V       00065          .DISPL   98$
                                   0000V       00067          .DISPL   61$
                                   0000V       00069          .DISPL   147$
                                   0000V       0006B          .DISPL   109$
                                   007A        0006D          .DISPL   122
                                   0000V       0006F          .DISPL   100$
                                   0000V       00071          .DISPL   50$
                                   0000V       00073          .DISPL   79$
                                   0000V       00075          .DISPL   33$
                                   0000V       00077          .DISPL   102$
                                   0000V       00079          .DISPL   32$
                                   0000V       0007B          .DISPL   20$
                                   0000V       0007D          .DISPL   142$
                                   0000V       0007F          .DISPL   13$
                                   0000V       00081          .DISPL   14$
                                   0000V       00083          .DISPL   116$
                                   0000V       00085          .DISPL   154$
                                   0000V    31 00087          BRW      168$
                        00000000G  EF       9F 0008A 1$:      PUSHAB   SHIFT                                        ; 0472
                                   04       DD 00090          PUSHL    #4
                        00000000G  EF       9F 00092          PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF             03   FB 00098          CALLS    #3,PAS$WRITE_STRING
               FFFFBFBD   EF   9F 0009F          PUSHAB   C.ABZ
                          2F   DD 000A5          PUSHL    #47
               00000000G  EF   9F 000A7          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 000AD          CALLS    #3,PAS$WRITE_STRING
                       0000V   31 000B4          BRW      169$
               00000000G  EF   9F 000B7 2$:      PUSHAB   SHIFT                                     ; 0479
                          04   DD 000BD          PUSHL    #4
               00000000G  EF   9F 000BF          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 000C5          CALLS    #3,PAS$WRITE_STRING
               FFFFBFC0   EF   9F 000CC          PUSHAB   C.ACA
                          21   DD 000D2          PUSHL    #33
               00000000G  EF   9F 000D4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 000DA          CALLS    #3,PAS$WRITE_STRING
               00000014G  EF   9F 000E1          PUSHAB   IDATA+20
00000000G  EF             01   FB 000E7          CALLS    #1,NUM_LEN
                          50   DD 000EE          PUSHL    R0
               00000014G  EF   DD 000F0          PUSHL    IDATA+20
               00000000G  EF   9F 000F6          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 000FC          CALLS    #3,PAS$WRITE_INTEGER
               FFFFBFAD   EF   9F 00103          PUSHAB   C.ACB
                          08   DD 00109          PUSHL    #8
               00000000G  EF   9F 0010B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 00111          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 00118          PUSHAB   DEF
00000000G  EF             01   FB 0011E          CALLS    #1,NUM_LEN
                          50   DD 00125          PUSHL    R0
               00000000G  EF   DD 00127          PUSHL    DEF
               00000000G  EF   9F 0012D          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 00133          CALLS    #3,PAS$WRITE_INTEGER
                          01   DD 0013A          PUSHL    #1
           7E        5D   8F   9A 0013C          MOVZBL   #93,-(SP)
               00000000G  EF   9F 00140          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 00146          CALLS    #3,PAS$WRITE_CHAR
               00000014G  EF   9F 0014D          PUSHAB   IDATA+20                                  ; 0483
00000000G  EF             01   FB 00153          CALLS    #1,NUM_LEN
           5C             50   D0 0015A          MOVL     R0,R12
               00000000G  EF   9F 0015D          PUSHAB   DEF
00000000G  EF             01   FB 00163          CALLS    #1,NUM_LEN
           50           604C   9E 0016A          MOVAB    (R0)[R12],R0
           03             50   D1 0016E          CMPL     R0,#3
                         00V   14 00171          BGTR     4$
               FFFFBF45   EF   9F 00173          PUSHAB   C.ACC                                     ; 0485
                          03   DD 00179          PUSHL    #3
               00000000G  EF   9F 0017B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 00181          CALLS    #3,PAS$WRITE_STRING
                       0000V   31 00188          BRW      169$
               FFFFBF31   EF   9F 0018B 4$:      PUSHAB   C.ACD                                     ; 0489
                          03   DD 00191          PUSHL    #3
               00000000G  EF   9F 00193          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 00199          CALLS    #3,PAS$WRITE_STRING
                       0000V   31 001A0          BRW      169$
               00000000G  EF   9F 001A3 6$:      PUSHAB   SHIFT                                     ; 0497
                          04   DD 001A9          PUSHL    #4
               00000000G  EF   9F 001AB          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03   FB 001B1          CALLS    #3,PAS$WRITE_STRING
               FFFFBF08   EF   9F 001B8          PUSHAB   C.ACE
```

```
                                   2F   DD 001BE          PUSHL    #47
                    00000000G      EF   9F 001C0          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 001C6          CALLS    #3,PAS$WRITE_STRING
                               0000V    31 001CD          BRW      169$
                    00000000G      EF   9F 001D0  7$:     PUSHAB   SHIFT                                         ; 0506
                                   04   DD 001D6          PUSHL    #4
                    00000000G      EF   9F 001D8          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 001DE          CALLS    #3,PAS$WRITE_STRING
                    FFFFBF0B       EF   9F 001E5          PUSHAB   C.ACF
                                   21   DD 001EB          PUSHL    #33
                    00000000G      EF   9F 001ED          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 001F3          CALLS    #3,PAS$WRITE_STRING
                    00000014G      EF   9F 001FA          PUSHAB   IDATA+20
   00000000G   EF                  01   FB 00200          CALLS    #1,NUM_LEN
                                   50   DD 00207          PUSHL    R0
                    00000014G      EF   DD 00209          PUSHL    IDATA+20
                    00000000G      EF   9F 0020F          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 00215          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFBEF8       EF   9F 0021C          PUSHAB   C.ACG
                                   08   DD 00222          PUSHL    #8
                    00000000G      EF   9F 00224          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 0022A          CALLS    #3,PAS$WRITE_STRING
                    00000000G      EF   9F 00231          PUSHAB   DEF
   00000000G   EF                  01   FB 00237          CALLS    #1,NUM_LEN
                                   50   DD 0023E          PUSHL    R0
                    00000000G      EF   DD 00240          PUSHL    DEF
                    00000000G      EF   9F 00246          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 0024C          CALLS    #3,PAS$WRITE_INTEGER
                                   01   DD 00253          PUSHL    #1
               7E             5D   8F   9A 00255          MOVZBL   #93,-(SP)
                    00000000G      EF   9F 00259          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 0025F          CALLS    #3,PAS$WRITE_CHAR
                    00000014G      EF   9F 00266          PUSHAB   IDATA+20                                      ; 0510
   00000000G   EF                  01   FB 0026C          CALLS    #1,NUM_LEN
               5C                  50   D0 00273          MOVL     R0,R12
                    00000000G      EF   9F 00276          PUSHAB   DEF
   00000000G   EF                  01   FB 0027C          CALLS    #1,NUM_LEN
               50                604C   9E 00283          MOVAB    (R0)[RT2],R0
               03                  50   D1 00287          CMPL     R0,#3
                                  00V   14 0028A          BGTR     9$
                    FFFFBE90       EF   9F 0028C          PUSHAB   C.ACH                                         ; 0512
                                   03   DD 00292          PUSHL    #3
                    00000000G      EF   9F 00294          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 0029A          CALLS    #3,PAS$WRITE_STRING
                               0000V    31 002A1          BRW      169$
                    FFFFBE7C       EF   9F 002A4  9$:     PUSHAB   C.ACI                                         ; 0516
                                   03   DD 002AA          PUSHL    #3
                    00000000G      EF   9F 002AC          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 002B2          CALLS    #3,PAS$WRITE_STRING
                               0000V    31 002B9          BRW      169$
                    00000000G      EF   9F 002BC  11$:    PUSHAB   SHIFT                                         ; 0522
                                   04   DD 002C2          PUSHL    #4
                    00000000G      EF   9F 002C4          PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                  03   FB 002CA          CALLS    #3,PAS$WRITE_STRING
                    FFFFBE53       EF   9F 002D1          PUSHAB   C.ACJ
                                   0E   DD 002D7          PUSHL    #14
                    00000000G      EF   9F 002D9          PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF               03   FB 002DF          CALLS    #3,PAS$WRITE_STRING
                            03   DD 002E6          PUSHL    #3
                00000084G   EF   DD 002E8          PUSHL    IDATA+132
                00000000G   EF   9F 002EE          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 002F4          CALLS    #3,PAS$WRITE_INTEGER
                FFFFBE39    EF   9F 002FB          PUSHAB   C.ACK
                            0B   DD 00301          PUSHL    #11
                00000000G   EF   9F 00303          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00309          CALLS    #3,PAS$WRITE_STRING
                00000000G   EF   9F 00310          PUSHAB   MAX_KEY_SIZE
00000000G  EF               01   FB 00316          CALLS    #1,NUM_LEN
                            50   DD 0031D          PUSHL    R0
                00000000G   EF   DD 0031F          PUSHL    MAX_KEY_SIZE
                00000000G   EF   9F 00325          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 0032B          CALLS    #3,PAS$WRITE_INTEGER
                FFFFBE0E    EF   9F 00332          PUSHAB   C.ACL
                            07   DD 00338          PUSHL    #7
                00000000G   EF   9F 0033A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00340          CALLS    #3,PAS$WRITE_STRING
                      0000V      31 00347          BRW      169$
                00000000G   EF   9F 0034A  12$:    PUSHAB   SHIFT                                      ; 0529
                            04   DD 00350          PUSHL    #4
                00000000G   EF   9F 00352          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00358          CALLS    #3,PAS$WRITE_STRING
                FFFFBDE9    EF   9F 0035F          PUSHAB   C.ACM
                            0F   DD 00365          PUSHL    #15
                00000000G   EF   9F 00367          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 0036D          CALLS    #3,PAS$WRITE_STRING
                            03   DD 00374          PUSHL    #3
                00000084G   EF   DD 00376          PUSHL    IDATA+132
                00000000G   EF   9F 0037C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00382          CALLS    #3,PAS$WRITE_INTEGER
                FFFFBDCF    EF   9F 00389          PUSHAB   C.ACN
                            09   DD 0038F          PUSHL    #9
                00000000G   EF   9F 00391          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00397          CALLS    #3,PAS$WRITE_STRING
                00000014G   EF   9F 0039E          PUSHAB   IDATA+20
00000000G  EF               01   FB 003A4          CALLS    #1,NUM_LEN
                            50   DD 003AB          PUSHL    R0
                00000014G   EF   DD 003AD          PUSHL    IDATA+20
                00000000G   EF   9F 003B3          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 003B9          CALLS    #3,PAS$WRITE_INTEGER
                            01   DD 003C0          PUSHL    #1
                            2D   DD 003C2          PUSHL    #45
                00000000G   EF   9F 003C4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 003CA          CALLS    #3,PAS$WRITE_CHAR
                00000000G   EF   9F 003D1          PUSHAB   MAX_KEY_SIZE
00000000G  EF               01   FB 003D7          CALLS    #1,NUM_LEN
                            50   DD 003DE          PUSHL    R0
                00000000G   EF   DD 003E0          PUSHL    MAX_KEY_SIZE
                00000000G   EF   9F 003E6          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 003EC          CALLS    #3,PAS$WRITE_INTEGER
                FFFFBD6F    EF   9F 003F3          PUSHAB   C.ACO
                            02   DD 003F9          PUSHL    #2
                00000000G   EF   9F 003FB          PUSHAB   PAS$FV_OUTPUT
00000000G  EF               03   FB 00401          CALLS    #3,PAS$WRITE_STRING
                00000000G   EF   9F 00408          PUSHAB   MAX_KEY_SIZE
```

```
00000000G  EF              01  FB 0040E          CALLS   #1,NUM_LEN
                           50  DD 00415          PUSHL   R0
           00000000G       EF  DD 00417          PUSHL   MAX_KEY_SIZE
           00000000G       EF  9F 0041D          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00423          CALLS   #3,PAS$WRITE_INTEGER
           FFFFBD3A        EF  9F 0042A          PUSHAB  C.ACP
                           04  DD 00430          PUSHL   #4
           00000000G       EF  9F 00432          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00438          CALLS   #3,PAS$WRITE_STRING
                       0000V   31 0043F          BRW     169$
           00000000G       EF  9F 00442 13$:     PUSHAB  SHIFT                                            ; 0539
                           04  DD 00448          PUSHL   #4
           00000000G       EF  9F 0044A          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00450          CALLS   #3,PAS$WRITE_STRING
           FFFFBD11        EF  9F 00457          PUSHAB  C.ACQ
                           1B  DD 0045D          PUSHL   #27
           00000000G       EF  9F 0045F          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00465          CALLS   #3,PAS$WRITE_STRING
                           05  DD 0046C          PUSHL   #5
           00000000G       EF  DD 0046E          PUSHL   CUR_MAX_REC
           00000000G       EF  9F 00474          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 0047A          CALLS   #3,PAS$WRITE_INTEGER
           FFFFBD03        EF  9F 00481          PUSHAB  C.ACR
                           07  DD 00487          PUSHL   #7
           00000000G       EF  9F 00489          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 0048F          CALLS   #3,PAS$WRITE_STRING
                       0000V   31 00496          BRW     169$
           00000000G       EF  9F 00499 14$:     PUSHAB  SHIFT                                            ; 0548
                           04  DD 0049F          PUSHL   #4
           00000000G       EF  9F 004A1          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004A7          CALLS   #3,PAS$WRITE_STRING
           FFFFBCDE        EF  9F 004AE          PUSHAB  C.ACS
                           1A  DD 004B4          PUSHL   #26
           00000000G       EF  9F 004B6          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004BC          CALLS   #3,PAS$WRITE_STRING
           00000014G       EF  9F 004C3          PUSHAB  IDATA+20
00000000G  EF              01  FB 004C9          CALLS   #1,NUM_LEN
                           50  DD 004D0          PUSHL   R0
           00000014G       EF  DD 004D2          PUSHL   IDATA+20
           00000000G       EF  9F 004D8          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004DE          CALLS   #3,PAS$WRITE_INTEGER
                           01  DD 004E5          PUSHL   #1
                           2D  DD 004E7          PUSHL   #45
           00000000G       EF  9F 004E9          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 004EF          CALLS   #3,PAS$WRITE_CHAR
                           05  DD 004F6          PUSHL   #5
           00000000G       EF  DD 004F8          PUSHL   CUR_MAX_REC
           00000000G       EF  9F 004FE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00504          CALLS   #3,PAS$WRITE_INTEGER
           FFFFBC9D        EF  9F 0050B          PUSHAB  C.ACT
                           07  DD 00511          PUSHL   #7
           00000000G       EF  9F 00513          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 00519          CALLS   #3,PAS$WRITE_STRING
           00000014G       EF  9F 00520          PUSHAB  IDATA+20                                         ; 0552
00000000G  EF              01  FB 00526          CALLS   #1,NUM_LEN
           03              50  D1 0052D          CMPL    R0,#3
                          00V  18 00530          BGEQ    16$
```

```
                      FFFFBC7E   EF   9F 00532         PUSHAB  C.ACU                           ; 0554
                                 03   DD 00538         PUSHL   #3
                      00000000G  EF   9F 0053A         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00540         CALLS   #3,PAS$WRITE_STRING
                             0000V    31 00547         BRW     169$
                      FFFFBC6A   EF   9F 0054A  16$:   PUSHAB  C.ACV                           ; 0558
                                 03   DD 00550         PUSHL   #3
                      00000000G  EF   9F 00552         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00558         CALLS   #3,PAS$WRITE_STRING
                             0000V    31 0055F         BRW     169$
                      00000000G  EF   9F 00562  18$:   PUSHAB  SHIFT                           ; 0564
                                 04   DD 00568         PUSHL   #4
                      00000000G  EF   9F 0056A         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00570         CALLS   #3,PAS$WRITE_STRING
                      FFFFBC41   EF   9F 00577         PUSHAB  C.ACW
                                 0E   DD 0057D         PUSHL   #14
                      00000000G  EF   9F 0057F         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00585         CALLS   #3,PAS$WRITE_STRING
                                 03   DD 0058C         PUSHL   #3
                      00000084G  EF   DD 0058E         PUSHL   IDATA+132
                      00000000G  EF   9F 00594         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 0059A         CALLS   #3,PAS$WRITE_INTEGER
                      FFFFBC27   EF   9F 005A1         PUSHAB  C.ACX
                                 1C   DD 005A7         PUSHL   #28
                      00000000G  EF   9F 005A9         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 005AF         CALLS   #3,PAS$WRITE_STRING
                             0000V    31 005B6         BRW     169$
                      00000000G  EF   9F 005B9  19$:   PUSHAB  SHIFT                           ; 0570
                                 04   DD 005BF         PUSHL   #4
                      00000000G  EF   9F 005C1         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 005C7         CALLS   #3,PAS$WRITE_STRING
                      FFFFBC16   EF   9F 005CE         PUSHAB  C.ACY
                                 0F   DD 005D4         PUSHL   #15
                      00000000G  EF   9F 005D6         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 005DC         CALLS   #3,PAS$WRITE_STRING
                                 03   DD 005E3         PUSHL   #3
                      00000084G  EF   DD 005E5         PUSHL   IDATA+132
                      00000000G  EF   9F 005EB         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 005F1         CALLS   #3,PAS$WRITE_INTEGER
                      FFFFBBFC   EF   9F 005F8         PUSHAB  C.ACZ
                                 1D   DD 005FE         PUSHL   #29
                      00000000G  EF   9F 00600         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00606         CALLS   #3,PAS$WRITE_STRING
                             0000V    31 0060D         BRW     169$
                      00000000   8F   DF 00610  20$:   PUSHAL  #0                              ; 0578
         00000000G  EF           01   FB 00616         CALLS   #1,CLEAR
       00V00000000G  EF          00   E0 0061D         BBS     #0,FULL_PROMPT,22$              ; 0583
       03 00000000G  EF          00   E0 00625         BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V    31 0062D         BRW     23$
                      00000000G  EF   9F 00630  22$:   PUSHAB  SHIFT                           ; 0590
                                 04   DD 00636         PUSHL   #4
                      00000000G  EF   9F 00638         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 0063E         CALLS   #3,PAS$WRITE_STRING
                      FFFFBBCD   EF   9F 00645         PUSHAB  C.ADA
                                 02   DD 0064B         PUSHL   #2
                      00000000G  EF   9F 0064D         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF           03   FB 00653         CALLS   #3,PAS$WRITE_STRING
```

```
                          00000000G  EF     9F 0065A             PUSHAB  ANSI_REVERSE
                                     04     DD 00660             PUSHL   #4
                          00000000G  EF     9F 00662             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00668             CALLS   #3,PAS$WRITE_STRING
                          FFFFBBA5   EF     9F 0066F             PUSHAB  C.ADB
                                     18     DD 00675             PUSHL   #24
                          00000000G  EF     9F 00677             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 0067D             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 00684             PUSHAB  ANSI_RESET
                                     04     DD 0068A             PUSHL   #4
                          00000000G  EF     9F 0068C             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00692             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 00699             PUSHAB  CRLF
                                     02     DD 0069F             PUSHL   #2
                          00000000G  EF     9F 006A1             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 006A7             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 006AE             PUSHAB  CRLF_SHIFT
                                     06     DD 006B4             PUSHL   #6
                          00000000G  EF     9F 006B6             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 006BC             CALLS   #3,PAS$WRITE_STRING
                          FFFFBB69   EF     9F 006C3             PUSHAB  C.ADC
                                     3A     DD 006C9             PUSHL   #58
                          00000000G  EF     9F 006CB             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 006D1             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 006D8             PUSHAB  CRLF_SHIFT
                                     06     DD 006DE             PUSHL   #6
                          00000000G  EF     9F 006E0             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 006E6             CALLS   #3,PAS$WRITE_STRING
                          FFFFBB7B   EF     9F 006ED             PUSHAB  C.ADD
                                     34     DD 006F3             PUSHL   #52
                          00000000G  EF     9F 006F5             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 006FB             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 00702             PUSHAB  CRLF_SHIFT
                                     06     DD 00708             PUSHL   #6
                          00000000G  EF     9F 0070A             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00710             CALLS   #3,PAS$WRITE_STRING
                          FFFFBB85   EF     9F 00717             PUSHAB  C.ADE
                                     3A     DD 0071D             PUSHL   #58
                          00000000G  EF     9F 0071F             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00725             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 0072C             PUSHAB  CRLF_SHIFT
                                     06     DD 00732             PUSHL   #6
                          00000000G  EF     9F 00734             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 0073A             CALLS   #3,PAS$WRITE_STRING
                          FFFFBB97   EF     9F 00741             PUSHAB  C.ADF
                          00000040   8F     DD 00747             PUSHL   #64
                          00000000G  EF     9F 0074D             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00753             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 0075A             PUSHAB  CRLF_SHIFT
                                     06     DD 00760             PUSHL   #6
                          00000000G  EF     9F 00762             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 00768             CALLS   #3,PAS$WRITE_STRING
                          FFFFBBA9   EF     9F 0076F             PUSHAB  C.ADG
                                     34     DD 00775             PUSHL   #52
                          00000000G  EF     9F 00777             PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03     FB 0077D             CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF     9F 00784             PUSHAB  CRLF_SHIFT
                          06   DD 0078A          PUSHL    #6
               00000000G  EF   9F 0078C          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 00792          CALLS    #3,PAS$WRITE_STRING
               FFFFBBB3   EF   9F 00799          PUSHAB   C.ADH
                          38   DD 0079F          PUSHL    #56
               00000000G  EF   9F 007A1          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 007A7          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 007AE          PUSHAB   CRLF_SHIFT
                          06   DD 007B4          PUSHL    #6
               00000000G  EF   9F 007B6          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 007BC          CALLS    #3,PAS$WRITE_STRING
               FFFFBBC1   EF   9F 007C3          PUSHAB   C.ADI
                          38   DD 007C9          PUSHL    #56
               00000000G  EF   9F 007CB          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 007D1          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 007D8          PUSHAB   CRLF
                          02   DD 007DE          PUSHL    #2
               00000000G  EF   9F 007E0          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 007E6          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 007ED          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           01   FB 007F3          CALLS    #1,PAS$WRITELN2
                          00V  11 007FA          BRB      24$
               00000000G  EF   9F 007FC  23$:    PUSHAB   SHIFT                                    ; 0618
                          04   DD 00802          PUSHL    #4
               00000000G  EF   9F 00804          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 0080A          CALLS    #3,PAS$WRITE_STRING
               FFFFBBAB   EF   9F 00811          PUSHAB   C.ADJ
                          24   DD 00817          PUSHL    #36
               00000000G  EF   9F 00819          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 0081F          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 00826          PUSHAB   CRLF_SHIFT
                          06   DD 0082C          PUSHL    #6
               00000000G  EF   9F 0082E          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 00834          CALLS    #3,PAS$WRITE_STRING
               FFFFBBA5   EF   9F 0083B          PUSHAB   C.ADK
                          1D   DD 00841          PUSHL    #29
               00000000G  EF   9F 00843          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 00849          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 00850          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           01   FB 00856          CALLS    #1,PAS$WRITELN2
               00000000G  EF   9F 0085D  24$:    PUSHAB   SHIFT                                    ; 0626
                          04   DD 00863          PUSHL    #4
               00000000G  EF   9F 00865          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 0086B          CALLS    #3,PAS$WRITE_STRING
               FFFFBB8E   EF   9F 00872          PUSHAB   C.ADL
                          1F   DD 00878          PUSHL    #31
               00000000G  EF   9F 0087A          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 00880          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 00887          PUSHAB   ANSI_REVERSE
                          04   DD 0088D          PUSHL    #4
               00000000G  EF   9F 0088F          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 00895          CALLS    #3,PAS$WRITE_STRING
               FFFFBB84   EF   9F 0089C          PUSHAB   C.ADM
                          03   DD 008A2          PUSHL    #3
               00000000G  EF   9F 008A4          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF           03   FB 008AA          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF   9F 008B1          PUSHAB   ANSI_RESET
```

```
                                      04   DD 008B7          PUSHL    #4
                          00000000G   EF   9F 008B9          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 008BF          CALLS    #3,PAS$WRITE_STRING
                          FFFFBB5E    EF   9F 008C6          PUSHAB   C.ADN
                                      03   DD 008CC          PUSHL    #3
                          00000000G   EF   9F 008CE          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 008D4          CALLS    #3,PAS$WRITE_STRING
                                   0000V   31 008DB          BRW      169$
                          00000000G   EF   9F 008DE  25$:    PUSHAB   CRLF_SHIFT                                ; 0633
                                      06   DD 008E4          PUSHL    #6
                          00000000G   EF   9F 008E6          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 008EC          CALLS    #3,PAS$WRITE_STRING
                          00000000G   EF   9F 008F3          PUSHAB   ANSI_REVERSE
                                      04   DD 008F9          PUSHL    #4
                          00000000G   EF   9F 008FB          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 00901          CALLS    #3,PAS$WRITE_STRING
                          00000000G   EF   9F 00908          PUSHAB   CONTINUE_TEXT
                                      2D   DD 0090E          PUSHL    #45
                          00000000G   EF   9F 00910          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 00916          CALLS    #3,PAS$WRITE_STRING
                          00000000G   EF   9F 0091D          PUSHAB   ANSI_RESET
                                      04   DD 00923          PUSHL    #4
                          00000000G   EF   9F 00925          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 0092B          CALLS    #3,PAS$WRITE_STRING
                                      01   DD 00932          PUSHL    #1
                                      09   DD 00934          PUSHL    #9
                          00000000G   EF   9F 00936          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 0093C          CALLS    #3,PAS$WRITE_CHAR
                                   0000V   31 00943          BRW      169$
                          00000000G   EF   9F 00946  26$:    PUSHAB   SHIFT                                     ; 0638
                                      04   DD 0094C          PUSHL    #4
                          00000000G   EF   9F 0094E          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 00954          CALLS    #3,PAS$WRITE_STRING
                          FFFFBACD    EF   9F 0095B          PUSHAB   C.ADO
                                      1C   DD 00961          PUSHL    #28
                          00000000G   EF   9F 00963          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 00969          CALLS    #3,PAS$WRITE_STRING
                          00000000G   EF   9F 00970          PUSHAB   CRLF_SHIFT
                                      06   DD 00976          PUSHL    #6
                          00000000G   EF   9F 00978          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 0097E          CALLS    #3,PAS$WRITE_STRING
                          FFFFBABF    EF   9F 00985          PUSHAB   C.ADP
                                      2B   DD 0098B          PUSHL    #43
                          00000000G   EF   9F 0098D          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 00993          CALLS    #3,PAS$WRITE_STRING
                                   0000V   31 0099A          BRW      169$
                          00000003    8F   DF 0099D  27$:    PUSHAL   #3                                        ; 0646
               00000000G  EF          01   FB 009A3          CALLS    #1,CLEAR
            00V00000000G  EF          00   E0 009AA          BBS      #0,FULL_PROMPT,29$                        ; 0651
            03 00000000G  EF          00   E0 009B2          BBS      #0,TEMP_FULL_PROMPT,.+3
                                   0000V   31 009BA          BRW      30$
                          00000000G   EF   9F 009BD  29$:    PUSHAB   SHIFT                                     ; 0659
                                      04   DD 009C3          PUSHL    #4
                          00000000G   EF   9F 009C5          PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03   FB 009CB          CALLS    #3,PAS$WRITE_STRING
                          FFFFBA9E    EF   9F 009D2          PUSHAB   C.ADQ
                                      02   DD 009D8          PUSHL    #2
```

```
                           00000000G  EF     9F 009DA         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 009E0         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 009E7         PUSHAB  ANSI_REVERSE
                                      04     DD 009ED         PUSHL   #4
                           00000000G  EF     9F 009EF         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 009F5         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 009FC         PUSHAB  EDF_HEADER
                                      13     DD 00A02         PUSHL   #19
                           00000000G  EF     9F 00A04         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A0A         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00A11         PUSHAB  ANSI_RESET
                                      04     DD 00A17         PUSHL   #4
                           00000000G  EF     9F 00A19         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A1F         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00A26         PUSHAB  CRLF
                                      02     DD 00A2C         PUSHL   #2
                           00000000G  EF     9F 00A2E         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A34         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00A3B         PUSHAB  CRLF_SHIFT
                                      06     DD 00A41         PUSHL   #6
                           00000000G  EF     9F 00A43         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A49         CALLS   #3,PAS$WRITE_STRING
                           FFFFBA24   EF     9F 00A50         PUSHAB  C.ADR
                                      37     DD 00A56         PUSHL   #55
                           00000000G  EF     9F 00A58         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A5E         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00A65         PUSHAB  CRLF_SHIFT
                                      06     DD 00A6B         PUSHL   #6
                           00000000G  EF     9F 00A6D         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A73         CALLS   #3,PAS$WRITE_STRING
                           FFFFBA32   EF     9F 00A7A         PUSHAB  C.ADS
                                      3A     DD 00A80         PUSHL   #58
                           00000000G  EF     9F 00A82         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A88         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00A8F         PUSHAB  CRLF_SHIFT
                                      06     DD 00A95         PUSHL   #6
                           00000000G  EF     9F 00A97         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00A9D         CALLS   #3,PAS$WRITE_STRING
                           FFFFBA44   EF     9F 00AA4         PUSHAB  C.ADT
                                      38     DD 00AAA         PUSHL   #56
                           00000000G  EF     9F 00AAC         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00AB2         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00AB9         PUSHAB  CRLF_SHIFT
                                      06     DD 00ABF         PUSHL   #6
                           00000000G  EF     9F 00AC1         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00AC7         CALLS   #3,PAS$WRITE_STRING
                           FFFFBA52   EF     9F 00ACE         PUSHAB  C.ADU
                                      2F     DD 00AD4         PUSHL   #47
                           00000000G  EF     9F 00AD6         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00ADC         CALLS   #3,PAS$WRITE_STRING
                           00000000G  EF     9F 00AE3         PUSHAB  CRLF_SHIFT
                                      06     DD 00AE9         PUSHL   #6
                           00000000G  EF     9F 00AEB         PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03     FB 00AF1         CALLS   #3,PAS$WRITE_STRING
                           FFFFBA58   EF     9F 00AF8         PUSHAB  C.ADV
                                      30     DD 00AFE         PUSHL   #48
                           00000000G  EF     9F 00B00         PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF               03  FB 00B06          CALLS   #3,PAS$WRITE_STRING
                00000000G   EF  9F 00B0D          PUSHAB  CRLF_SHIFT
                            06  DD 00B13          PUSHL   #6
                00000000G   EF  9F 00B15          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B1B          CALLS   #3,PAS$WRITE_STRING
                FFFFBA5E    EF  9F 00B22          PUSHAB  C.ADW
                            37  DD 00B28          PUSHL   #55
                00000000G   EF  9F 00B2A          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B30          CALLS   #3,PAS$WRITE_STRING
                00C00000G   EF  9F 00B37          PUSHAB  CRLF_SHIFT
                            06  DD 00B3D          PUSHL   #6
                00000000G   EF  9F 00B3F          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B45          CALLS   #3,PAS$WRITE_STRING
                FFFFBA6C    EF  9F 00B4C          PUSHAB  C.ADX
                            36  DD 00B52          PUSHL   #54
                00000000G   EF  9F 00B54          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B5A          CALLS   #3,PAS$WRITE_STRING
                00000000G   EF  9F 00B61          PUSHAB  CRLF_SHIFT
                            06  DD 00B67          PUSHL   #6
                00000000G   EF  9F 00B69          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B6F          CALLS   #3,PAS$WRITE_STRING
                FFFFBA7A    EF  9F 00B76          PUSHAB  C.ADY
                            29  DD 00B7C          PUSHL   #41
                00000000G   EF  9F 00B7E          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B84          CALLS   #3,PAS$WRITE_STRING
                00000000G   EF  9F 00B8B          PUSHAB  CRLF_SHIFT
                            06  DD 00B91          PUSHL   #6
                00000000G   EF  9F 00B93          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00B99          CALLS   #3,PAS$WRITE_STRING
                FFFFBA7C    EF  9F 00BA0          PUSHAB  C.ADZ
                            2A  DD 00BA6          PUSHL   #42
                00000000G   EF  9F 00BA8          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00BAE          CALLS   #3,PAS$WRITE_STRING
                00000000G   EF  9F 00BB5          PUSHAB  CRLF
                            02  DD 00BBB          PUSHL   #2
                00000000G   EF  9F 00BBD          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00BC3          CALLS   #3,PAS$WRITE_STRING
                00000000G   EF  9F 00BCA          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               01  FB 00BD0          CALLS   #1,PAS$WRITELN2
                           00V  11 00BD7          BRB     31$
                00000000G   EF  9F 00BD9  30$:    PUSHAB  SHIFT                                  ; 0690
                            04  DD 00BDF          PUSHL   #4
                00000000G   EF  9F 00BE1          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00BE7          CALLS   #3,PAS$WRITE_STRING
                FFFFBA5A    EF  9F 00BEE          PUSHAB  C.AEA
                            32  DD 00BF4          PUSHL   #50
                00000000G   EF  9F 00BF6          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00BFC          CALLS   #3 PAS$WRITE_STRING
                00000000G   EF  9F 00C03          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               01  FB 00C09          CALLS   #1,PAS$WRITELN2
                00000000G   EF  9F 00C10  31$:    PUSHAB  SHIFT                                  ; 0696
                            04  DD 00C16          PUSHL   #4
                00000000G   EF  9F 00C18          PUSHAB  PAS$FV_OUTPUT
00000000G  EF               03  FB 00C1E          CALLS   #3,PAS$WRITE_STRING
                FFFFBA57    EF  9F 00C25          PUSHAB  C.AEB
                            28  DD 00C2B          PUSHL   #40
                00000000G   EF  9F 00C2D          PUSHAB  PAS$FV_OUTPUT
```

```
  00000000G  EF                     03  FB 00C33          CALLS    #3,PAS$WRITE_STRING
                                 0000V  31 00C3A          BRW      169$
                 00000000G          EF  9F 00C3D  32$:    PUSHAB   SHIFT                              ; 0706
                                    04  DD 00C43          PUSHL    #4
                 00000000G          EF  9F 00C45          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00C4B          CALLS    #3,PAS$WRITE_STRING
                 FFFFBA52           EF  9F 00C52          PUSHAB   C.AEC
                                    12  DD 00C58          PUSHL    #18
                 00000000G          EF  9F 00C5A          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00C60          CALLS    #3,PAS$WRITE_STRING
                 00000000G          EF  9F 00C67          PUSHAB   CRLF_SHIFT
                                    06  DD 00C6D          PUSHL    #6
                 00000000G          EF  9F 00C6F          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00C75          CALLS    #3,PAS$WRITE_STRING
                 FFFFBA3C           EF  9F 00C7C          PUSHAB   C.AED
                                    2F  DD 00C82          PUSHL    #47
                 00000000G          EF  9F 00C84          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00C8A          CALLS    #3,PAS$WRITE_STRING
                                 0000V  31 00C91          BRW      169$
                 00000000G          EF  9F 00C94  33$:    PUSHAB   SHIFT                              ; 0715
                                    04  DD 00C9A          PUSHL    #4
                 00000000G          EF  9F 00C9C          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00CA2          CALLS    #3,PAS$WRITE_STRING
                 FFFFBA3F           EF  9F 00CA9          PUSHAB   C.AEE
                                    0C  DD 00CAF          PUSHL    #12
                 00000000G          EF  9F 00CB1          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00CB7          CALLS    #3,PAS$WRITE_STRING
                 00000000G          EF  9F 00CBE          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     01  FB 00CC4          CALLS    #1,PAS$WRITELN2
                 00000000G          EF  9F 00CCB          PUSHAB   SHIFT                              ; 0716
                                    04  DD 00CD1          PUSHL    #4
                 00000000G          EF  9F 00CD3          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00CD9          CALLS    #3,PAS$WRITE_STRING
                 FFFFBA14           EF  9F 00CE0          PUSHAB   C.AEF
                                    2C  DD 00CE6          PUSHL    #44
                 00000000G          EF  9F 00CE8          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00CEE          CALLS    #3,PAS$WRITE_STRING
                                 0000V  31 00CF5          BRW      169$
                 00000000G          EF  9F 00CF8  34$:    PUSHAB   SHIFT                              ; 0725
                                    04  DD 00CFE          PUSHL    #4
                 00000000G          EF  9F 00D00          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00D06          CALLS    #3,PAS$WRITE_STRING
                 FFFFBA13           EF  9F 00D0D          PUSHAB   C.AEG
                                    03  DD 00D13          PUSHL    #3
                 00000000G          EF  9F 00D15          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00D1B          CALLS    #3,PAS$WRITE_STRING
                                    03  DD 00D22          PUSHL    #3
                 00000084G          EF  DD 00D24          PUSHL    IDATA+132
                 00000000G          EF  9F 00D2A          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00D30          CALLS    #3,PAS$WRITE_INTEGER
                 FFFFB9ED           EF  9F 00D37          PUSHAB   C.AEH
                                    0B  DD 00D3D          PUSHL    #11
                 00000000G          EF  9F 00D3F          PUSHAB   PAS$FV_OUTPUT
  00000000G  EF                     03  FB 00D45          CALLS    #3,PAS$WRITE_STRING
00v00000013G  EF                    00  E1 00D4C          BBC      #0,BDATA+19,36$                    ; 0728
                 FFFFB9DC           EF  9F 00D54          PUSHAB   C.AEI                              ; 0730
                                    03  DD 00D5A          PUSHL    #3
                 00000000G    EF  9F 00D5C         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00D62         CALLS   #3,PAS$WRITE_STRING
                              01  DD 00D69         PUSHL   #1
                 00000000G    EF  DD 00D6B         PUSHL   SEGMENT_NUMBER
                 00000000G    EF  9F 00D71         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00D77         CALLS   #3,PAS$WRITE_INTEGER
                 FFFFB9B6     EF  9F 00D7E 36$:    PUSHAB  C.AEJ                            ; 0732
                              04  DD 00D84         PUSHL   #4
                 00000000G    EF  9F 00D86         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00D8C         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 00D93         PUSHAB  MAX_KEY_POSITION
   00000000G  EF              01  FB 00D99         CALLS   #1,NUM_LEN
                              50  DD 00DA0         PUSHL   R0
                 00000000G    EF  DD 00DA2         PUSHL   MAX_KEY_POSITION
                 00000000G    EF  9F 00DA8         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00DAE         CALLS   #3,PAS$WRITE_INTEGER
                 FFFFB983     EF  9F 00DB5         PUSHAB  C.AEK
                              07  DD 00DBB         PUSHL   #7
                 00000000G    EF  9F 00DBD         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00DC3         CALLS   #3,PAS$WRITE_STRING
                           0000V  31 00DCA         BRW     169$
                 00000000G    EF  9F 00DCD 37$:    PUSHAB  SHIFT                            ; 0741
                              04  DD 00DD3         PUSHL   #4
                 00000000G    EF  9F 00DD5         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00DDB         CALLS   #3,PAS$WRITE_STRING
                 FFFFB95E     EF  9F 00DE2         PUSHAB  C.AEL
                              31  DD 00DE8         PUSHL   #49
                 00000000G    EF  9F 00DEA         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00DF0         CALLS   #3,PAS$WRITE_STRING
                 00000000G    EF  9F 00DF7         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              01  FB 00DFD         CALLS   #1,PAS$WRITELN2
00V00000000G  EF              00  E0 00E04         BBS     #0,OPTIMIZING,39$                ; 0744
                 00000000G    EF  9F 00E0C         PUSHAB  SHIFT                            ; 0746
                              04  DD 00E12         PUSHL   #4
                 00000000G    EF  9F 00E14         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00E1A         CALLS   #3,PAS$WRITE_STRING
                 FFFFB953     EF  9F 00E21         PUSHAB  C.AEM
                              07  DD 00E27         PUSHL   #7
                 00000000G    EF  9F 00E29         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00E2F         CALLS   #3,PAS$WRITE_STRING
                             00V  11 00E36         BRB     40$
                 00000000G    EF  9F 00E38 39$:    PUSHAB  SHIFT                            ; 0750
                              04  DD 00E3E         PUSHL   #4
                 00000000G    EF  9F 00E40         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00E46         CALLS   #3,PAS$WRITE_STRING
                 FFFFB92F     EF  9F 00E4D         PUSHAB  C.AEN
                              08  DD 00E53         PUSHL   #8
                 00000000G    EF  9F 00E55         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00E5B         CALLS   #3,PAS$WRITE_STRING
                 FFFFB922     EF  9F 00E62 40$:    PUSHAB  C.AEO                            ; 0752
                              18  DD 00E68         PUSHL   #24
                 00000000G    EF  9F 00E6A         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF              03  FB 00E70         CALLS   #3,PAS$WRITE_STRING
00V00000000G  EF              00  E0 00E77         BBS     #0,OPTIMIZING,42$                ; 0754
                              01  DD 00E7F         PUSHL   #1                               ; 0756
              7E 00000000G    EF  9A 00E81         MOVZBL  TAB,-(SP)
                 00000000G    EF  9F 00E88         PUSHAB  PAS$FV_OUTPUT
```

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00000000G  EF                  03   FB 00E8E          CALLS    #3,PAS$WRITE_CHAR
                FFFFB907       EF   9F 00E95 42$:     PUSHAB   C.AEP                                  ; 0758
                               0F   DD 00E9B          PUSHL    #15
                00000000G      EF   9F 00E9D          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EA3          CALLS    #3,PAS$WRITE_STRING
                            0000V   31 00EAA          BRW      169$
                00000000G      EF   9F 00EAD 43$:     PUSHAB   SHIFT                                  ; 0764
                               04   DD 00EB3          PUSHL    #4
                00000000G      EF   9F 00EB5          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EBB          CALLS    #3,PAS$WRITE_STRING
                FFFFB8EA       EF   9F 00EC2          PUSHAB   C.AEQ
                               03   DD 00EC8          PUSHL    #3
                00000000G      EF   9F 00ECA          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00ED0          CALLS    #3,PAS$WRITE_STRING
                               03   DD 00ED7          PUSHL    #3
                00000084G      EF   DD 00ED9          PUSHL    IDATA+132
                00000000G      EF   9F 00EDF          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EE5          CALLS    #3,PAS$WRITE_INTEGER
                FFFFB8C4       EF   9F 00EEC          PUSHAB   C.AER
                               22   DD 00EF2          PUSHL    #34
                00000000G      EF   9F 00EF4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EFA          CALLS    #3,PAS$WRITE_STRING
                            0000V   31 00F01          BRW      169$
                00000000G      EF   9F 00F04 44$:     PUSHAB   SHIFT                                  ; 0771
                               04   DD 00F0A          PUSHL    #4
                00000000G      EF   9F 00F0C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F12          CALLS    #3,PAS$WRITE_STRING
                FFFFB8BB       EF   9F 00F19          PUSHAB   C.AES
                               03   DD 00F1F          PUSHL    #3
                00000000G      EF   9F 00F21          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F27          CALLS    #3,PAS$WRITE_STRING
                               03   DD 00F2E          PUSHL    #3
                00000084G      EF   DD 00F30          PUSHL    IDATA+132
                00000000G      EF   9F 00F36          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F3C          CALLS    #3,PAS$WRITE_INTEGER
                FFFFB895       EF   9F 00F43          PUSHAB   C.AET
                               1D   DD 00F49          PUSHL    #29
                00000000G      EF   9F 00F4B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F51          CALLS    #3,PAS$WRITE_STRING
                00000084G      EF   D5 00F58          TSTL     IDATA+132                              ; 0777
                              00V   12 00F5E          BNEQ     46$
                FFFFB898       EF   9F 00F60          PUSHAB   C.AEU                                  ; 0779
                               06   DD 00F66          PUSHL    #6
                00000000G      EF   9F 00F68          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F6E          CALLS    #3,PAS$WRITE_STRING
                            0000V   31 00F75          BRW      169$
                FFFFB888       EF   9F 00F78 46$:     PUSHAB   C.AEV                                  ; 0783
                               07   DD 00F7E          PUSHL    #7
                00000000G      EF   9F 00F80          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F86          CALLS    #3,PAS$WRITE_STRING
                            0000V   31 00F8D          BRW      169$
                00000000G      EF   9F 00F90 48$:     PUSHAB   SHIFT                                  ; 0789
                               04   DD 00F96          PUSHL    #4
                00000000G      EF   9F 00F98          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F9E          CALLS    #3,PAS$WRITE_STRING
                FFFFB863       EF   9F 00FA5          PUSHAB   C.AEW
                               03   DD 00FAB          PUSHL    #3
```

```
                  00000000G    EF  9F 00FAD          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00FB3          CALLS   #3,PAS$WRITE_STRING
                               03  DD 00FBA          PUSHL   #3
                  00000084G    EF  DD 00FBC          PUSHL   IDATA+132
                  00000000G    EF  9F 00FC2          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00FC8          CALLS   #3,PAS$WRITE_INTEGER
                  FFFFB83D     EF  9F 00FCF          PUSHAB  C.AEX
                               25  DD 00FD5          PUSHL   #37
                  00000000G    EF  9F 00FD7          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00FDD          CALLS   #3,PAS$WRITE_STRING
                            0000V  31 00FE4          BRW     169$
                  00000000G    EF  9F 00FE7 49$:     PUSHAB  SHIFT                                         ; 0795
                               04  DD 00FED          PUSHL   #4
                  00000000G    EF  9F 00FEF          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 00FF5          CALLS   #3,PAS$WRITE_STRING
                  FFFFB838     EF  9F 00FFC          PUSHAB  C.AEY
                               27  DD 01002          PUSHL   #39
                  00000000G    EF  9F 01004          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0100A          CALLS   #3,PAS$WRITE_STRING
                            0000V  31 01011          BRW     169$
                  00000000G    EF  9F 01014 50$:     PUSHAB  SHIFT                                         ; 0800
                               04  DD 0101A          PUSHL   #4
                  00000000G    EF  9F 0101C          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 01022          CALLS   #3,PAS$WRITE_STRING
                  FFFFB833     EF  9F 01029          PUSHAB  C.AEZ
                               22  DD 0102F          PUSHL   #34
                  00000000G    EF  9F 01031          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 01037          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 0103E          PUSHAB  ANSI_REVERSE
                               04  DD 01044          PUSHL   #4
                  00000000G    EF  9F 01046          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0104C          CALLS   #3,PAS$WRITE_STRING
                  FFFFB82D     EF  9F 01053          PUSHAB  C.AFA
                               03  DD 01059          PUSHL   #3
                  00000000G    EF  9F 0105B          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 01061          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 01068          PUSHAB  ANSI_RESET
                               04  DD 0106E          PUSHL   #4
                  00000000G    EF  9F 01070          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 01076          CALLS   #3,PAS$WRITE_STRING
                  FFFFB807     EF  9F 0107D          PUSHAB  C.AFB
                               03  DD 01083          PUSHL   #3
                  00000000G    EF  9F 01085          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 0108B          CALLS   #3,PAS$WRITE_STRING
                            0000V  31 01092          BRW     169$
00V00000000G  EF               00  E0 01095 51$:     BBS     #0,OPTIMIZING,53$                             ; 0807
                  00000000G    EF  9F 0109D          PUSHAB  SHIFT                                         ; 0809
                               04  DD 010A3          PUSHL   #4
                  00000000G    EF  9F 010A5          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 010AB          CALLS   #3,PAS$WRITE_STRING
                  FFFFB7D6     EF  9F 010B2          PUSHAB  C.AFC
                               2F  DD 010B8          PUSHL   #47
                  00000000G    EF  9F 010BA          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03  FB 010C0          CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 010C7          PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               01  FB 010CD          CALLS   #1,PAS$WRITELN2
                              00V  11 010D4          BRB     54$
                            00000000G  EF    9F 010D6 53$:     PUSHAB  SHIFT                                 ; 0814
                                       04    DD 010DC          PUSHL   #4
                            00000000G  EF    9F 010DE          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 010E4          CALLS   #3,PAS$WRITE_STRING
                            FFFFB7CD   EF    9F 010EB          PUSHAB  C.AFD
                                       27    DD 010F1          PUSHL   #39
                            00000000G  EF    9F 010F3          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 010F9          CALLS   #3,PAS$WRITE_STRING
                            00000000G  EF    9F 01100          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          01    FB 01106          CALLS   #1,PAS$WRITELN2
                            00000000G  EF    9F 0110D 54$:     PUSHAB  SHIFT                                 ; 0816
                                       04    DD 01113          PUSHL   #4
                            00000000G  EF    9F 01115          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 0111B          CALLS   #3,PAS$WRITE_STRING
                            FFFFB7BE   EF    9F 01122          PUSHAB  C.AFE
                                       0D    DD 01128          PUSHL   #13
                            00000000G  EF    9F 0112A          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 01130          CALLS   #3,PAS$WRITE_STRING
                            FFFFB7B9   EF    9F 01137          PUSHAB  C.AFF
                                       0C    DD 0113D          PUSHL   #12
                            00000000G  EF    9F 0113F          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 01145          CALLS   #3,PAS$WRITE_STRING
              00V00000000G EF          00    E0 0114C          BBS     #0,OPTIMIZING,56$                     ; 0818
                            00000000G  EF    9F 01154          PUSHAB  ANSI_REVERSE                          ; 0820
                                       04    DD 0115A          PUSHL   #4
                            00000000G  EF    9F 0115C          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 01162          CALLS   #3,PAS$WRITE_STRING
                            FFFFB793   EF    9F 01169          PUSHAB  C.AFG
                                       03    DD 0116F          PUSHL   #3
                            00000000G  EF    9F 01171          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 01177          CALLS   #3,PAS$WRITE_STRING
                            00000000G  EF    9F 0117E          PUSHAB  ANSI_RESET
                                       04    DD 01184          PUSHL   #4
                            00000000G  EF    9F 01186          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 0118C          CALLS   #3,PAS$WRITE_STRING
                            FFFFB76D   EF    9F 01193          PUSHAB  C.AFH
                                       03    DD 01199          PUSHL   #3
                            00000000G  EF    9F 0119B          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 011A1          CALLS   #3,PAS$WRITE_STRING
                                    0000V    31 011A8          BRW     169$
                                       01    DD 011AB 56$:     PUSHL   #1                                    ; 0826
                           7E       5B 8F    9A 011AD          MOVZBL  #91,-(SP)
                            00000000G  EF    9F 011B1          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 011B7          CALLS   #3,PAS$WRITE_CHAR
                            00000000G  EF    9F 011BE          PUSHAB  OLD_COUNT
                00000000G  EF          01    FB 011C4          CALLS   #1,NUM_LEN
                                       50    DD 011CB          PUSHL   R0
                            00000000G  EF    DD 011CD          PUSHL   OLD_COUNT
                            00000000G  EF    9F 011D3          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 011D9          CALLS   #3,PAS$WRITE_INTEGER
                                       01    DD 011E0          PUSHL   #1
                           7E       5D 8F    9A 011E2          MOVZBL  #93,-(SP)
                            00000000G  EF    9F 011E6          PUSHAB  PAS$FV_OUTPUT
                00000000G  EF          03    FB 011EC          CALLS   #3,PAS$WRITE_CHAR
                            00000000G  EF    9F 011F3          PUSHAB  OLD_COUNT                             ; 0828
                00000000G  EF          01    FB 011F9          CALLS   #1,NUM_LEN
                           04          50    D1 01200          CMPL    R0,#4
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                               00V  15 01203         BLEQ     58$
                    FFFFB6FF    EF  9F 01205         PUSHAB   C.AFI                           ; 0830
                                03  DD 0120B         PUSHL    #3
                   00000000G    EF  9F 0120D         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 01213         CALLS    #3,PAS$WRITE_STRING
                             0000V  31 0121A         BRW      169$
                    FFFFB6EB    EF  9F 0121D 58$:    PUSHAB   C.AFJ                           ; 0834
                                03  DD 01223         PUSHL    #3
                   00000000G    EF  9F 01225         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 0122B         CALLS    #3,PAS$WRITE_STRING
                             0000V  31 01232         BRW      169$
                   00000000G    EF  9F 01235 61$:    PUSHAB   SHIFT                           ; 0844
                                04  DD 0123B         PUSHL    #4
                   00000000G    EF  9F 0123D         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 01243         CALLS    #3,PAS$WRITE_STRING
                    FFFFB6C2    EF  9F 0124A         PUSHAB   C.AFK
                                26  DD 01250         PUSHL    #38
                   00000000G    EF  9F 01252         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 01258         CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF  9F 0125F         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                01  FB 01265         CALLS    #1,PAS$WRITELN2
00V00000000G  EF                00  E0 0126C         BBS      #0,OPTIMIZING,63$               ; 0846
                   00000000G    EF  9F 01274         PUSHAB   SHIFT                           ; 0848
                                04  DD 0127A         PUSHL    #4
                   00000000G    EF  9F 0127C         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 01282         CALLS    #3,PAS$WRITE_STRING
                    FFFFB6AB    EF  9F 01289         PUSHAB   C.AFL
                                19  DD 0128F         PUSHL    #25
                   00000000G    EF  9F 01291         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 01297         CALLS    #3,PAS$WRITE_STRING
                               00V  11 0129E         BRB      64$
                   00000000G    EF  9F 012A0 63$:    PUSHAB   SHIFT                           ; 0852
                                04  DD 012A6         PUSHL    #4
                   00000000G    EF  9F 012A8         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 012AE         CALLS    #3,PAS$WRITE_STRING
                    FFFFB69B    EF  9F 012B5         PUSHAB   C.AFM
                                17  DD 012BB         PUSHL    #23
                   00000000G    EF  9F 012BD         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 012C3         CALLS    #3,PAS$WRITE_STRING
                    FFFFB69E    EF  9F 012CA 64$:    PUSHAB   C.AFN                           ; 0854
                                12  DD 012D0         PUSHL    #18
                   00000000G    EF  9F 012D2         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 012D8         CALLS    #3,PAS$WRITE_STRING
                             0000V  31 012DF         BRW      169$
00V00000000G  EF                00  E0 012E2 65$:    BBS      #0,OPTIMIZING,67$               ; 0862
                   00000000G    EF  9F 012EA         PUSHAB   SHIFT                           ; 0864
                                04  DD 012F0         PUSHL    #4
                   00000000G    EF  9F 012F2         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 012F8         CALLS    #3,PAS$WRITE_STRING
                    FFFFB67D    EF  9F 012FF         PUSHAB   C.AFO
                                31  DD 01305         PUSHL    #49
                   00000000G    EF  9F 01307         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03  FB 0130D         CALLS    #3,PAS$WRITE_STRING
                   00000000G    EF  9F 01314         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                01  FB 0131A         CALLS    #1,PAS$WRITELN2
                               00V  11 01321         BRB      68$
                   00000000G    EF  9F 01323 67$:    PUSHAB   SHIFT                           ; 0869
```

```
                                04  DD 01329          PUSHL   #4
                     00000000G  EF  9F 0132B          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01331          CALLS   #3,PAS$WRITE_STRING
                     FFFFB678   EF  9F 01338          PUSHAB  C.AFP
                                2F  DD 0133E          PUSHL   #47
                     00000000G  EF  9F 01340          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01346          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 0134D          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            01  FB 01353          CALLS   #1,PAS$WRITELN2
                     00000000G  EF  9F 0135A  68$:    PUSHAB  SHIFT                                        ; 0872
                                04  DD 01360          PUSHL   #4
                     00000000G  EF  9F 01362          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01368          CALLS   #3,PAS$WRITE_STRING
                     FFFFB671   EF  9F 0136F          PUSHAB  C.AFQ
                                28  DD 01375          PUSHL   #40
                     00000000G  EF  9F 01377          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 0137D          CALLS   #3,PAS$WRITE_STRING
                             0000V  31 01384          BRW     169$
                     00000000G  EF  9F 01387  69$:    PUSHAB  SHIFT                                        ; 0881
                                04  DD 0138D          PUSHL   #4
                     00000000G  EF  9F 0138F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01395          CALLS   #3,PAS$WRITE_STRING
                     FFFFB66C   EF  9F 0139C          PUSHAB  C.AFR
                                2E  DD 013A2          PUSHL   #46
                     00000000G  EF  9F 013A4          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 013AA          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 013B1          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            01  FB 013B7          CALLS   #1,PAS$WRITELN2
  00V00000000G  EF              00  E0 013BE          BBS     #0,OPTIMIZING,71$                            ; 0884
                     00000000G  EF  9F 013C6          PUSHAB  SHIFT                                        ; 0886
                                04  DD 013CC          PUSHL   #4
                     00000000G  EF  9F 013CE          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 013D4          CALLS   #3,PAS$WRITE_STRING
                     FFFFB65D   EF  9F 013DB          PUSHAB  C.AFS
                                15  DD 013E1          PUSHL   #21
                     00000000G  EF  9F 013E3          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 013E9          CALLS   #3,PAS$WRITE_STRING
                               00V  11 013F0          BRB     72$
                     00000000G  EF  9F 013F2  71$:    PUSHAB  SHIFT                                        ; 0890
                                04  DD 013F8          PUSHL   #4
                     00000000G  EF  9F 013FA          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01400          CALLS   #3,PAS$WRITE_STRING
                     FFFFB649   EF  9F 01407          PUSHAB  C.AFT
                                16  DD 0140D          PUSHL   #22
                     00000000G  EF  9F 0140F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01415          CALLS   #3,PAS$WRITE_STRING
                     FFFFB64C   EF  9F 0141C  72$:    PUSHAB  C.AFU                                        ; 0892
                                11  DD 01422          PUSHL   #17
                     00000000G  EF  9F 01424          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 0142A          CALLS   #3,PAS$WRITE_STRING
                             0000V  31 01431          BRW     169$
                     00000000G  EF  9F 01434  73$:    PUSHAB  SHIFT                                        ; 0898
                                04  DD 0143A          PUSHL   #4
                     00000000G  EF  9F 0143C          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03  FB 01442          CALLS   #3,PAS$WRITE_STRING
                     FFFFB633   EF  9F 01449          PUSHAB  C.AFV
                                2D  DD 0144F          PUSHL   #45
```

```
                      00000000G  EF   9F 01451          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 01457          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 0145E          BRW     169$
                      00000000G  EF   9F 01461  74$:    PUSHAB  SHIFT                                  ; 0903
                                 04   DD 01467          PUSHL   #4
                      00000000G  EF   9F 01469          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0146F          CALLS   #3,PAS$WRITE_STRING
                      FFFFB636   EF   9F 01476          PUSHAB  C.AFW
                                 30   DD 0147C          PUSHL   #48
                      00000000G  EF   9F 0147E          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 01484          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 0148B          BRW     169$
                      00000000G  EF   9F 0148E  75$:    PUSHAB  SHIFT                                  ; 0908
                                 04   DD 01494          PUSHL   #4
                      00000000G  EF   9F 01496          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0149C          CALLS   #3,PAS$WRITE_STRING
                      FFFFB639   EF   9F 014A3          PUSHAB  C.AFX
                                 2A   DD 014A9          PUSHL   #42
                      00000000G  EF   9F 014AB          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 014B1          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 014B8          BRW     169$
                      00000000G  EF   9F 014BB  76$:    PUSHAB  SHIFT                                  ; 0913
                                 04   DD 014C1          PUSHL   #4
                      00000000G  EF   9F 014C3          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 014C9          CALLS   #3,PAS$WRITE_STRING
                      FFFFB638   EF   9F 014D0          PUSHAB  C.AFY
                                 2F   DD 014D6          PUSHL   #47
                      00000000G  EF   9F 014D8          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 014DE          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 014E5          BRW     169$
                      00000000G  EF   9F 014E8  77$:    PUSHAB  SHIFT                                  ; 0918
                                 04   DD 014EE          PUSHL   #4
                      00000000G  EF   9F 014F0          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 014F6          CALLS   #3,PAS$WRITE_STRING
                      FFFFB63B   EF   9F 014FD          PUSHAB  C.AFZ
                                 2D   DD 01503          PUSHL   #45
                      00000000G  EF   9F 01505          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0150B          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 01512          BRW     169$
                      00000000G  EF   9F 01515  78$:    PUSHAB  SHIFT                                  ; 0923
                                 04   DD 0151B          PUSHL   #4
                      00000000G  EF   9F 0151D          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 01523          CALLS   #3,PAS$WRITE_STRING
                      FFFFB63E   EF   9F 0152A          PUSHAB  C.AGA
                                 2D   DD 01530          PUSHL   #45
                      00000000G  EF   9F 01532          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 01538          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 0153F          PUSHAB  CRLF_SHIFT
                                 06   DD 01545          PUSHL   #6
                      00000000G  EF   9F 01547          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0154D          CALLS   #3,PAS$WRITE_STRING
                      FFFFB644   EF   9F 01554          PUSHAB  C.AGB
                                 2E   DD 0155A          PUSHL   #46
                      00000000G  EF   9F 0155C          PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 01562          CALLS   #3,PAS$WRITE_STRING
                              0000V   31 01569          BRW     169$
                      00000000G  EF   9F 0156C  79$:    PUSHAB  SHIFT                                  ; 0929
```

```
                                 04    DD 01572            PUSHL    #4
               00000000G         EF    9F 01574            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 0157A            CALLS    #3,PAS$WRITE_STRING
               FFFFB647          EF    9F 01581            PUSHAB   C.AGC
                                 20    DD 01587            PUSHL    #32
               00000000G         EF    9F 01589            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 0158F            CALLS    #3,PAS$WRITE_STRING
                            0000V    31 01596            BRW      169$
               00000000G         EF    9F 01599  80$:      PUSHAB   SHIFT                                  ; 0936
                                 04    DD 0159F            PUSHL    #4
               00000000G         EF    9F 015A1            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 015A7            CALLS    #3,PAS$WRITE_STRING
               FFFFB63A          EF    9F 015AE            PUSHAB   C.AGD
                                 03    DD 015B4            PUSHL    #3
               00000000G         EF    9F 015B6            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 015BC            CALLS    #3,PAS$WRITE_STRING
                                 03    DD 015C3            PUSHL    #3
               00000084G         EF    DD 015C5            PUSHL    IDATA+132
               00000000G         EF    9F 015CB            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 015D1            CALLS    #3,PAS$WRITE_INTEGER
               FFFFB614          EF    9F 015D8            PUSHAB   C.AGE
                                 09    DD 015DE            PUSHL    #9
               00000000G         EF    9F 015E0            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 015E6            CALLS    #3,PAS$WRITE_STRING
 00v00000013G  EF                 00    E1 015ED            BBC      #0,BDATA+19,82$                        ; 0939
               FFFFB603          EF    9F 015F5            PUSHAB   C.AGF                                  ; 0941
                                 03    DD 015FB            PUSHL    #3
               00000000G         EF    9F 015FD            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 01603            CALLS    #3,PAS$WRITE_STRING
                                 01    DD 0160A            PUSHL    #1
               00000000G         EF    DD 0160C            PUSHL    SEGMENT_NUMBER
               00000000G         EF    9F 01612            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 01618            CALLS    #3,PAS$WRITE_INTEGER
               FFFFB5DD          EF    9F 0161F  82$:      PUSHAB   C.AGG                                  ; 0943
                                 02    DD 01625            PUSHL    #2
               00000000G         EF    9F 01627            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 0162D            CALLS    #3,PAS$WRITE_STRING
               00000000G         EF    9F 01634            PUSHAB   MIN_KEY_SIZE
   00000000G  EF                 01    FB 0163A            CALLS    #1,NUM_LEN
                                 50    DD 01641            PUSHL    R0
               00000000G         EF    DD 01643            PUSHL    MIN_KEY_SIZE
               00000000G         EF    9F 01649            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 0164F            CALLS    #3,PAS$WRITE_INTEGER
                                 01    DD 01656            PUSHL    #1
                                 2D    DD 01658            PUSHL    #45
               00000000G         EF    9F 0165A            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 01660            CALLS    #3,PAS$WRITE_CHAR
               00000000G         EF    9F 01667            PUSHAB   MAX_KEY_SIZE
   00000000G  EF                 01    FB 0166D            CALLS    #1,NUM_LEN
                                 50    DD 01674            PUSHL    R0
               00000000G         EF    DD 01676            PUSHL    MAX_KEY_SIZE
               00000000G         EF    9F 0167C            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 01682            CALLS    #3,PAS$WRITE_INTEGER
                                 01    DD 01689            PUSHL    #1
                                 29    DD 0168B            PUSHL    #41
               00000000G         EF    9F 0168D            PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                 03    FB 01693            CALLS    #3,PAS$WRITE_CHAR
```

```
                     00000000G  EF   9F 0169A         PUSHAB  ANSI_REVERSE
                                04   DD 016A0         PUSHL   #4
                     00000000G  EF   9F 016A2         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 016A8         CALLS   #3,PAS$WRITE_STRING
                     FFFFB551   EF   9F 016AF         PUSHAB  C.AGH
                                03   DD 016B5         PUSHL   #3
                     00000000G  EF   9F 016B7         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 016BD         CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 016C4         PUSHAB  ANSI_RESET
                                04   DD 016CA         PUSHL   #4
                     00000000G  EF   9F 016CC         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 016D2         CALLS   #3,PAS$WRITE_STRING
                     FFFFB52B   EF   9F 016D9         PUSHAB  C.AGI
                                03   DD 016DF         PUSHL   #3
                     00000000G  EF   9F 016E1         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 016E7         CALLS   #3,PAS$WRITE_STRING
                              0000V  31 016EE         BRW     169$
                     00000000G  EF   9F 016F1  83$:   PUSHAB  SHIFT                                  ; 0953
                                04   DD 016F7         PUSHL   #4
                     00000000G  EF   9F 016F9         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 016FF         CALLS   #3,PAS$WRITE_STRING
                     FFFFB502   EF   9F 01706         PUSHAB  C.AGJ
                                25   DD 0170C         PUSHL   #37
                     00000000G  EF   9F 0170E         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 01714         CALLS   #3,PAS$WRITE_STRING
                     00000098G  EF   D5 0171B         TSTL    IDATA+152                              ; 0955
                               00V   12 01721         BNEQ    85$
                     FFFFB50D   EF   9F 01723         PUSHAB  C.AGK                                  ; 0957
                                14   DD 01729         PUSHL   #20
                     00000000G  EF   9F 0172B         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 01731         CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 01738         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           01   FB 0173E         CALLS   #1,PAS$WRITELN2
                               00V   11 01745         BRB     86$
                     FFFFB4FD   EF   9F 01747  85$:   PUSHAB  C.AGL                                  ; 0961
                                14   DD 0174D         PUSHL   #20
                     00000000G  EF   9F 0174F         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 01755         CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 0175C         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           01   FB 01762         CALLS   #1,PAS$WRITELN2
                     00000000G  EF   9F 01769  86$:   PUSHAB  SHIFT                                  ; 0963
                                04   DD 0176F         PUSHL   #4
                     00000000G  EF   9F 01771         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 01777         CALLS   #3,PAS$WRITE_STRING
                     FFFFB4DA   EF   9F 0177E         PUSHAB  C.AGM
                                1C   DD 01784         PUSHL   #28
                     00000000G  EF   9F 01786         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 0178C         CALLS   #3,PAS$WRITE_STRING
                                06   DD 01793         PUSHL   #6
                     00000000G  EF   DD 01795         PUSHL   BREAKPOINT_LEFT
                     00000000G  EF   9F 0179B         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 017A1         CALLS   #3,PAS$WRITE_INTEGER
                                06   DD 017A8         PUSHL   #6
                     00000000G  EF   DD 017AA         PUSHL   BREAKPOINT_MID
                     00000000G  EF   9F 017B0         PUSHAB  PAS$FV_OUTPUT
        00000000G  EF           03   FB 017B6         CALLS   #3,PAS$WRITE_INTEGER
                                06   DD 017BD         PUSHL   #6
```

```
                    00000000G  EF    DD 017BF          PUSHL    BREAKPOINT_RIGHT
                    00000000G  EF    9F 017C5          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 017CB          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFB4A2   EF    9F 017D2          PUSHAB   C.AGN
                               02    DD 017D8          PUSHL    #2
                    00000000G  EF    9F 017DA          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 017E0          CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF    9F 017E7          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  01    FB 017ED          CALLS    #1,PAS$WRITELN2
                    00000000G  EF    9F 017F4          PUSHAB   SHIFT                                       ; 0967
                               04    DD 017FA          PUSHL    #4
                    00000000G  EF    9F 017FC          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 01802          CALLS    #3,PAS$WRITE_STRING
                    FFFFB46F   EF    9F 01809          PUSHAB   C.AGO
                               1E    DD 0180F          PUSHL    #30
                    00000000G  EF    9F 01811          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 01817          CALLS    #3,PAS$WRITE_STRING
                               06    DD 0181E          PUSHL    #6
                    00000000G  EF    DD 01820          PUSHL    DEPTHPOINT_LEFT
                    00000000G  EF    9F 01826          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 0182C          CALLS    #3,PAS$WRITE_INTEGER
                               06    DD 01833          PUSHL    #6
                    00000000G  EF    DD 01835          PUSHL    DEPTHPOINT_MID
                    00000000G  EF    9F 0183B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 01841          CALLS    #3,PAS$WRITE_INTEGER
                               06    DD 01848          PUSHL    #6
                    00000000G  EF    DD 0184A          PUSHL    DEPTHPOINT_RIGHT
                    00000000G  EF    9F 01850          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 01856          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFB439   EF    9F 0185D          PUSHAB   C.AGP
                               02    DD 01863          PUSHL    #2
                    00000000G  EF    9F 01865          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 0186B          CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF    9F 01872          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  01    FB 01878          CALLS    #1,PAS$WRITELN2
                    00000000G  EF    9F 0187F          PUSHAB   SHIFT                                       ; 0971
                               04    DD 01885          PUSHL    #4
                    00000000G  EF    9F 01887          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 0188D          CALLS    #3,PAS$WRITE_STRING
                    FFFFB404   EF    9F 01894          PUSHAB   C.AGQ
                               1F    DD 0189A          PUSHL    #31
                    00000000G  EF    9F 0189C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 018A2          CALLS    #3,PAS$WRITE_STRING
                               06    DD 018A9          PUSHL    #6
                    00000000G  EF    DD 018AB          PUSHL    NUMPOINT_LEFT
                    00000000G  EF    9F 018B1          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 018B7          CALLS    #3,PAS$WRITE_INTEGER
                               06    DD 018BE          PUSHL    #6
                    00000000G  EF    DD 018C0          PUSHL    NUMPOINT_MID
                    00000000G  EF    9F 018C6          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 018CC          CALLS    #3,PAS$WRITE_INTEGER
                               06    DD 018D3          PUSHL    #6
                    00000000G  EF    DD 018D5          PUSHL    NUMPOINT_RIGHT
                    00000000G  EF    9F 018DB          PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03    FB 018E1          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFB3D0   EF    9F 018E8          PUSHAB   C.AGR
                               02    DD 018EE          PUSHL    #2
```

```
                  00000000G  EF    9F 018F0        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 018F6        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 018FD        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          01    FB 01903        CALLS   #1,PAS$WRITELN2
                  00000000G  EF    9F 0190A        PUSHAB  SHIFT                                  ; 0975
                             04    DD 01910        PUSHL   #4
                  00000000G  EF    9F 01912        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 01918        CALLS   #3,PAS$WRITE_STRING
                  FFFFB39D   EF    9F 0191F        PUSHAB  C.AGS
                             22    DD 01925        PUSHL   #34
                  00000000G  EF    9F 01927        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 0192D        CALLS   #3,PAS$WRITE_STRING
                             06    DD 01934        PUSHL   #6
                  00000000G  EF    DD 01936        PUSHL   PAGEPOINT_LEFT
                  00000000G  EF    9F 0193C        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 01942        CALLS   #3,PAS$WRITE_INTEGER
                             06    DD 01949        PUSHL   #6
                  00000000G  EF    DD 0194B        PUSHL   PAGEPOINT_MID
                  00000000G  EF    9F 01951        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 01957        CALLS   #3,PAS$WRITE_INTEGER
                             06    DD 0195E        PUSHL   #6
                  00000000G  EF    DD 01960        PUSHL   PAGEPOINT_RIGHT
                  00000000G  EF    9F 01966        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 0196C        CALLS   #3,PAS$WRITE_INTEGER
                  FFFFB36B   EF    9F 01973        PUSHAB  C.AGT
                             02    DD 01979        PUSHL   #2
                  00000000G  EF    9F 0197B        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 01981        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01988        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          01    FB 0198E        CALLS   #1,PAS$WRITELN2
                  00000000G  EF    9F 01995        PUSHAB  SHIFT                                  ; 0979
                             04    DD 0199B        PUSHL   #4
                  00000000G  EF    9F 0199D        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 019A3        CALLS   #3,PAS$WRITE_STRING
                  FFFFB336   EF    9F 019AA        PUSHAB  C.AGU
                             23    DD 019B0        PUSHL   #35
                  00000000G  EF    9F 019B2        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 019B8        CALLS   #3,PAS$WRITE_STRING
                             06    DD 019BF        PUSHL   #6
                  00000000G  EF    DD 019C1        PUSHL   EXAMPOINT_LEFT
                  00000000G  EF    9F 019C7        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 019CD        CALLS   #3,PAS$WRITE_INTEGER
                             06    DD 019D4        PUSHL   #6
                  00000000G  EF    DD 019D6        PUSHL   EXAMPOINT_MID
                  00000000G  EF    9F 019DC        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 019E2        CALLS   #3,PAS$WRITE_INTEGER
                             06    DD 019E9        PUSHL   #6
                  00000000G  EF    DD 019EB        PUSHL   EXAMPOINT_RIGHT
                  00000000G  EF    9F 019F1        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 019F7        CALLS   #3,PAS$WRITE_INTEGER
                  FFFFB306   EF    9F 019FE        PUSHAB  C.AGV
                             02    DD 01A04        PUSHL   #2
                  00000000G  EF    9F 01A06        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          03    FB 01A0C        CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF    9F 01A13        PUSHAB  PAS$FV_OUTPUT
      00000000G  EF          01    FB 01A19        CALLS   #1,PAS$WRITELN2
                  00000000G  EF    9F 01A20        PUSHAB  CRLF_SHIFT                             ; 0983
```

```
                                       06  DD 01A26          PUSHL    #6
                             00000000G EF  9F 01A28          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01A2E          CALLS    #3,PAS$WRITE_STRING
                              FFFFB2D3 EF  9F 01A35          PUSHAB   C.AGW
                                       03  DD 01A3B          PUSHL    #3
                             00000000G EF  9F 01A3D          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01A43          CALLS    #3,PAS$WRITE_STRING
                                       03  DD 01A4A          PUSHL    #3
                             00000084G EF  DD 01A4C          PUSHL    IDATA+132
                             00000000G EF  9F 01A52          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01A58          CALLS    #3,PAS$WRITE_INTEGER
                              FFFFB2AD EF  9F 01A5F          PUSHAB   C.AGX
                                       0F  DD 01A65          PUSHL    #15
                             00000000G EF  9F 01A67          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01A6D          CALLS    #3,PAS$WRITE_STRING
                             00000000G EF  9F 01A74          PUSHAB   MIN_BUCKET
             00000000G EF              01  FB 01A7A          CALLS    #1,NUM_LEN
                                       50  DD 01A81          PUSHL    R0
                             00000000G EF  DD 01A83          PUSHL    MIN_BUCKET
                             00000000G EF  9F 01A89          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01A8F          CALLS    #3,PAS$WRITE_INTEGER
                              FFFFB286 EF  9F 01A96          PUSHAB   C.AGY
                                       05  DD 01A9C          PUSHL    #5
                             00000000G EF  9F 01A9E          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01AA4          CALLS    #3,PAS$WRITE_STRING
          50 00000000G EF              19  C5 01AAB          MULL3    #25,QTAB_OFFSET,R0
      5C FFFFFEF2GEF40 20              00  EE 01AB3          EXTV     #0,#32,QTAB-270[R0],R12
                    FC AD              5C  D0 01ABD          MOVL     R12,-4(FP)
                                    FC AD  9F 01AC1          PUSHAB   -4(FP)
             00000000G EF              01  FB 01AC4          CALLS    #1,NUM_LEN
                                       50  DD 01ACB          PUSHL    R0
                                       5C  DD 01ACD          PUSHL    R12
                             00000000G EF  9F 01ACF          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01AD5          CALLS    #3,PAS$WRITE_INTEGER
                              FFFFB248 EF  9F 01ADC          PUSHAB   C.AGZ
                                       04  DD 01AE2          PUSHL    #4
                             00000000G EF  9F 01AE4          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01AEA          CALLS    #3,PAS$WRITE_STRING
                                   0000V 31  01AF1           BRW      169$
                             00000000G EF  9F 01AF4 87$:     PUSHAB   SHIFT                                       ; 0996
                                       04  DD 01AFA          PUSHL    #4
                             00000000G EF  9F 01AFC          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01B02          CALLS    #3,PAS$WRITE_STRING
                              FFFFB21F EF  9F 01B09          PUSHAB   C.AHA
                                       1F  DD 01B0F          PUSHL    #31
                             00000000G EF  9F 01B11          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01B17          CALLS    #3,PAS$WRITE_STRING
                             00000000G EF  9F 01B1E          PUSHAB   CRLF_SHIFT
                                       06  DD 01B24          PUSHL    #6
                             00000000G EF  9F 01B26          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01B2C          CALLS    #3,PAS$WRITE_STRING
                              FFFFB215 EF  9F 01B33          PUSHAB   C.AHB
                                       2A  DD 01B39          PUSHL    #42
                             00000000G EF  9F 01B3B          PUSHAB   PAS$FV_OUTPUT
             00000000G EF              03  FB 01B41          CALLS    #3,PAS$WRITE_STRING
          50 00000000G EF              19  C5 01B48          MULL3    #25,QTAB_OFFSET,R0                          ; 0999
      01 FFFFFEF2GEF40 20              00  EC 01B50          CMPV     #0,#32,QTAB-270[R0],#1
```

```
                              00V  12 01B5A        BNEQ    89$
                   FFFFB218    EF  9F 01B5C        PUSHAB  C.AHC                              ; 1001
                               08  DD 01B62        PUSHL   #8
                  00000000G    EF  9F 01B64        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01B6A        CALLS   #3,PAS$WRITE_STRING
                             0000V 31 01B71        BRW     169$
                   FFFFB208    EF  9F 01B74 89$:   PUSHAB  C.AHD                              ; 1005
                               09  DD 01B7A        PUSHL   #9
                  00000000G    EF  9F 01B7C        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01B82        CALLS   #3,PAS$WRITE_STRING
                             0000V 31 01B89        BRW     169$
                  00000000G    EF  9F 01B8C 91$:   PUSHAB  SHIFT                              ; 1011
                               04  DD 01B92        PUSHL   #4
                  00000000G    EF  9F 01B94        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01B9A        CALLS   #3,PAS$WRITE_STRING
                   FFFFB1E7    EF  9F 01BA1        PUSHAB  C.AHE
                               03  DD 01BA7        PUSHL   #3
                  00000000G    EF  9F 01BA9        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01BAF        CALLS   #3,PAS$WRITE_STRING
                               03  DD 01BB6        PUSHL   #3
                  00000084G    EF  DD 01BB8        PUSHL   IDATA+132
                  00000000G    EF  9F 01BBE        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01BC4        CALLS   #3,PAS$WRITE_INTEGER
                   FFFFB1C1    EF  9F 01BCB        PUSHAB  C.AHF
                               23  DD 01BD1        PUSHL   #35
                  00000000G    EF  9F 01BD3        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01BD9        CALLS   #3,PAS$WRITE_STRING
                             0000V 31 01BE0        BRW     169$
                  00000000G    EF  9F 01BE3 92$:   PUSHAB  SHIFT                              ; 1016
                               04  DD 01BE9        PUSHL   #4
                  00000000G    EF  9F 01BEB        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01BF1        CALLS   #3,PAS$WRITE_STRING
                   FFFFB1B8    EF  9F 01BF8        PUSHAB  C.AHG
                               2F  DD 01BFE        PUSHL   #47
                  00000000G    EF  9F 01C00        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01C06        CALLS   #3,PAS$WRITE_STRING
                             0000V 31 01C0D        BRW     169$
                  00000000G    EF  9F 01C10 93$:   PUSHAB  SHIFT                              ; 1021
                               04  DD 01C16        PUSHL   #4
                  00000000G    EF  9F 01C18        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01C1E        CALLS   #3,PAS$WRITE_STRING
                   FFFFB1BB    EF  9F 01C25        PUSHAB  C.AHH
                               28  DD 01C2B        PUSHL   #40
                  00000000G    EF  9F 01C2D        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01C33        CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF  9F 01C3A        PUSHAB  CRLF_SHIFT
                               06  DD 01C40        PUSHL   #6
                  00000000G    EF  9F 01C42        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01C48        CALLS   #3,PAS$WRITE_STRING
                   FFFFB1B9    EF  9F 01C4F        PUSHAB  C.AHI
                               02  DD 01C55        PUSHL   #2
                  00000000G    EF  9F 01C57        PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03  FB 01C5D        CALLS   #3,PAS$WRITE_STRING
                             0000V 31 01C64        BRW     169$
                  00000000G    EF  9F 01C67 94$:   PUSHAB  SHIFT                              ; 1027
                               04  DD 01C6D        PUSHL   #4
                  00000000G    EF  9F 01C6F        PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF              03  FB 01C75          CALLS   #3,PAS$WRITE_STRING
              FFFFB190     EF  9F 01C7C          PUSHAB  C.AHJ
                           2B  DD 01C82          PUSHL   #43
              00000000G    EF  9F 01C84          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01C8A          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 01C91          PUSHAB  CRLF_SHIFT
                           06  DD 01C97          PUSHL   #6
              00000000G    EF  9F 01C99          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01C9F          CALLS   #3,PAS$WRITE_STRING
              FFFFB192     EF  9F 01CA6          PUSHAB  C.AHK
                           02  DD 01CAC          PUSHL   #2
              00000000G    EF  9F 01CAE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01CB4          CALLS   #3,PAS$WRITE_STRING
                       0000V   31 01CBB          BRW     169$
              00000000G    EF  9F 01CBE 95$:     PUSHAB  SHIFT                                          ; 1032
                           04  DD 01CC4          PUSHL   #4
              00000000G    EF  9F 01CC6          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01CCC          CALLS   #3,PAS$WRITE_STRING
              FFFFB169     EF  9F 01CD3          PUSHAB  C.AHL
                           2A  DD 01CD9          PUSHL   #42
              00000000G    EF  9F 01CDB          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01CE1          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 01CE8          PUSHAB  CRLF_SHIFT
                           06  DD 01CEE          PUSHL   #6
              00000000G    EF  9F 01CF0          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01CF6          CALLS   #3,PAS$WRITE_STRING
              FFFFB169     EF  9F 01CFD          PUSHAB  C.AHM
                           02  DD 01D03          PUSHL   #2
              00000000G    EF  9F 01D05          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D0B          CALLS   #3,PAS$WRITE_STRING
                       0000V   31 01D12          BRW     169$
              00000000G    EF  9F 01D15 96$:     PUSHAB  SHIFT                                          ; 1038
                           04  DD 01D1B          PUSHL   #4
              00000000G    EF  9F 01D1D          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D23          CALLS   #3,PAS$WRITE_STRING
              FFFFB13E     EF  9F 01D2A          PUSHAB  C.AHN
                           2E  DD 01D30          PUSHL   #46
              00000000G    EF  9F 01D32          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D38          CALLS   #3,PAS$WRITE_STRING
              00000000G    EF  9F 01D3F          PUSHAB  CRLF_SHIFT
                           06  DD 01D45          PUSHL   #6
              00000000G    EF  9F 01D47          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D4D          CALLS   #3,PAS$WRITE_STRING
              FFFFB142     EF  9F 01D54          PUSHAB  C.AHO
                           02  DD 01D5A          PUSHL   #2
              00000000G    EF  9F 01D5C          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D62          CALLS   #3,PAS$WRITE_STRING
                       0000V   31 01D69          BRW     169$
              00000000G    EF  9F 01D6C 97$:     PUSHAB  SHIFT                                          ; 1044
                           04  DD 01D72          PUSHL   #4
              00000000G    EF  9F 01D74          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D7A          CALLS   #3,PAS$WRITE_STRING
              FFFFB117     EF  9F 01D81          PUSHAB  C.AHP
                           03  DD 01D87          PUSHL   #3
              00000000G    EF  9F 01D89          PUSHAB  PAS$FV_OUTPUT
00000000G  EF              03  FB 01D8F          CALLS   #3,PAS$WRITE_STRING
                           03  DD 01D96          PUSHL   #3
```

```
                     00000084G  EF    DD 01D98           PUSHL    IDATA+132
                     00000000G  EF    9F 01D9E           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01DA4           CALLS    #3,PAS$WRITE_INTEGER
                     FFFFB0F1   EF    9F 01DAB           PUSHAB   C.AHQ
                                1A    DD 01DB1           PUSHL    #26
                     00000000G  EF    9F 01DB3           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01DB9           CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF    9F 01DC0           PUSHAB   CRLF_SHIFT
                                06    DD 01DC6           PUSHL    #6
                     00000000G  EF    9F 01DC8           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01DCE           CALLS    #3,PAS$WRITE_STRING
                     FFFFB0E1   EF    9F 01DD5           PUSHAB   C.AHR
                                02    DD 01DDB           PUSHL    #2
                     00000000G  EF    9F 01DDD           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01DE3           CALLS    #3,PAS$WRITE_STRING
                              0000V   31 01DEA           BRW      169$
                     00000000G  EF    9F 01DED  98$:     PUSHAB   SHIFT                                      ; 1052
                                04    DD 01DF3           PUSHL    #4
                     00000000G  EF    9F 01DF5           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01DFB           CALLS    #3,PAS$WRITE_STRING
                     FFFFB0B6   EF    9F 01E02           PUSHAB   C.AHS
                                2E    DD 01E08           PUSHL    #46
                     00000000G  EF    9F 01E0A           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E10           CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF    9F 01E17           PUSHAB   CRLF_SHIFT
                                06    DD 01E1D           PUSHL    #6
                     00000000G  EF    9F 01E1F           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E25           CALLS    #3,PAS$WRITE_STRING
                     FFFFB0BC   EF    9F 01E2C           PUSHAB   C.AHT
                                03    DD 01E32           PUSHL    #3
                     00000000G  EF    9F 01E34           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E3A           CALLS    #3,PAS$WRITE_STRING
                                03    DD 01E41           PUSHL    #3
                     00000084G  EF    DD 01E43           PUSHL    IDATA+132
                     00000000G  EF    9F 01E49           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E4F           CALLS    #3,PAS$WRITE_INTEGER
                     FFFFB096   EF    9F 01E56           PUSHAB   C.AHU
                                1D    DD 01E5C           PUSHL    #29
                     00000000G  EF    9F 01E5E           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E64           CALLS    #3,PAS$WRITE_STRING
                              0000V   31 01E6B           BRW      169$
                     00000000G  EF    9F 01E6E  99$:     PUSHAB   SHIFT                                      ; 1060
                                04    DD 01E74           PUSHL    #4
                     00000000G  EF    9F 01E76           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E7C           CALLS    #3,PAS$WRITE_STRING
                     FFFFB089   EF    9F 01E83           PUSHAB   C.AHV
                                13    DD 01E89           PUSHL    #19
                     00000000G  EF    9F 01E8B           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01E91           CALLS    #3,PAS$WRITE_STRING
                     00000000G  EF    9F 01E98           PUSHAB   LOW_KEY
      00000000G  EF             01    FB 01E9E           CALLS    #1,NUM_LEN
                                50    DD 01EA5           PUSHL    R0
                     00000000G  EF    DD 01EA7           PUSHL    LOW_KEY
                     00000000G  EF    9F 01EAD           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF             03    FB 01EB3           CALLS    #3,PAS$WRITE_INTEGER
                                01    DD 01EBA           PUSHL    #1
                                2D    DD 01EBC           PUSHL    #45
                     00000000G    EF  9F 01EBE        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01EC4        CALLS   #3,PAS$WRITE_CHAR
                     00000000G    EF  9F 01ECB        PUSHAB  HIGH_KEY
       00000000G  EF              01  FB 01ED1        CALLS   #1,NUM_LEN
                                  50  DD 01ED8        PUSHL   R0
                     00000000G    EF  DD 01EDA        PUSHL   HIGH_KEY
                     00000000G    EF  9F 01EE0        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01EE6        CALLS   #3,PAS$WRITE_INTEGER
                     FFFFB033     EF  9F 01EED        PUSHAB  C.AHW
                                  07  DD 01EF3        PUSHL   #7
                     00000000G    EF  9F 01EF5        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01EFB        CALLS   #3,PAS$WRITE_STRING
                               0000V  31 01F02        BRW     169$
                     00000000G    EF  9F 01F05 100$:  PUSHAB  SHIFT                                  ; 1068
                                  04  DD 01F0B        PUSHL   #4
                     00000000G    EF  9F 01F0D        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F13        CALLS   #3,PAS$WRITE_STRING
                     FFFFB00E     EF  9F 01F1A        PUSHAB  C.AHX
                                  21  DD 01F20        PUSHL   #33
                     00000000G    EF  9F 01F22        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F28        CALLS   #3,PAS$WRITE_STRING
    50 00000000G  EF              19  C5 01F2F        MULL3   #25,QTAB_OFFSET,R0
5C FFFFFEF2GEF40  20              00  EE 01F37        EXTV    #0,#32,QTAB-270[R0],R12
              FC  AD              5C  D0 01F41        MOVL    R12,-4(FP)
                            FC    AD  9F 01F45        PUSHAB  -4(FP)
       00000000G  EF              01  FB 01F48        CALLS   #1,NUM_LEN
                                  50  DD 01F4F        PUSHL   R0
                                  5C  DD 01F51        PUSHL   R12
                     00000000G    EF  9F 01F53        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F59        CALLS   #3,PAS$WRITE_INTEGER
                     FFFFAFEC     EF  9F 01F60        PUSHAB  C.AHY
                                  04  DD 01F66        PUSHL   #4
                     00000000G    EF  9F 01F68        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F6E        CALLS   #3,PAS$WRITE_STRING
                               0000V  31 01F75        BRW     169$
                     00000000G    EF  9F 01F78 101$:  PUSHAB  SHIFT                                  ; 1078
                                  04  DD 01F7E        PUSHL   #4
                     00000000G    EF  9F 01F80        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F86        CALLS   #3,PAS$WRITE_STRING
                     FFFFAFC3     EF  9F 01F8D        PUSHAB  C.AHZ
                                  24  DD 01F93        PUSHL   #36
                     00000000G    EF  9F 01F95        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01F9B        CALLS   #3,PAS$WRITE_STRING
                     00000000G    EF  9F 01FA2        PUSHAB  CRLF_SHIFT
                                  06  DD 01FA8        PUSHL   #6
                     00000000G    EF  9F 01FAA        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01FB0        CALLS   #3,PAS$WRITE_STRING
                     FFFFAFBD     EF  9F 01FB7        PUSHAB  C.AIA
                                  24  DD 01FBD        PUSHL   #36
                     00000000G    EF  9F 01FBF        PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03  FB 01FC5        CALLS   #3,PAS$WRITE_STRING
                               0000V  31 01FCC        BRW     169$
    06            00 00000108G    EF  CF 01FCF 102$:  CASEL   IDATA+264,#0,#6                        ; 1087
                               0000V     01FD7        .DISPL  103$
                               0000V     01FD9        .DISPL  103$
                               0000V     01FDB        .DISPL  103$
                               0000V     01FDD        .DISPL  104$
```

```
                                  0000V        01FDF            .DISPL  105$
                                  0000V        01FE1            .DISPL  103$
                                  0000V        01FE3            .DISPL  103$
                                  0000V    31  01FE5            BRW     106$
                        00000000G    EF    9F  01FE8  103$:     PUSHAB  SHIFT                                   ; 1093
                                     04    DD  01FEE            PUSHL   #4
                        00000000G    EF    9F  01FF0            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  01FF6            CALLS   #3,PAS$WRITE_STRING
                        FFFFAF9B     EF    9F  01FFD            PUSHAB  C.AIB
                                     10    DD  02003            PUSHL   #16
                        00000000G    EF    9F  02005            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  0200B            CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF    9F  02012            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01    FB  02018            CALLS   #1,PAS$WRITELN2
                                    00V    11  0201F            BRB     107$
                        00000000G    EF    9F  02021  104$:     PUSHAB  SHIFT                                   ; 1094
                                     04    DD  02027            PUSHL   #4
                        00000000G    EF    9F  02029            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  0202F            CALLS   #3,PAS$WRITE_STRING
                        FFFFAF72     EF    9F  02036            PUSHAB  C.AIC
                                     14    DD  0203C            PUSHL   #20
                        00000000G    EF    9F  0203E            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  02044            CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF    9F  0204B            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01    FB  02051            CALLS   #1,PAS$WRITELN2
                                    00V    11  02058            BRB     107$
                        00000000G    EF    9F  0205A  105$:     PUSHAB  SHIFT                                   ; 1095
                                     04    DD  02060            PUSHL   #4
                        00000000G    EF    9F  02062            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  02068            CALLS   #3,PAS$WRITE_STRING
                        FFFFAF4D     EF    9F  0206F            PUSHAB  C.AID
                                     2D    DD  02075            PUSHL   #45
                        00000000G    EF    9F  02077            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  0207D            CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF    9F  02084            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              01    FB  0208A            CALLS   #1,PAS$WRITELN2
                                    00V    11  02091            BRB     107$
                                               02093  106$:
                        00000000G    EF    9F  02093  107$:     PUSHAB  SHIFT                                   ; 1104
                                     04    DD  02099            PUSHL   #4
                        00000000G    EF    9F  0209B            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  020A1            CALLS   #3,PAS$WRITE_STRING
                        FFFFAF44     EF    9F  020A8            PUSHAB  C.AIE
                                     21    DD  020AE            PUSHL   #33
                        00000000G    EF    9F  020B0            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  020B6            CALLS   #3,PAS$WRITE_STRING
                                  0000V    31  020BD            BRW     169$
                        00000000G    EF    9F  020C0  108$:     PUSHAB  SHIFT                                   ; 1111
                                     04    DD  020C6            PUSHL   #4
                        00000000G    EF    9F  020C8            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  020CE            CALLS   #3,PAS$WRITE_STRING
                        FFFFAF3B     EF    9F  020D5            PUSHAB  C.AIF
                                     17    DD  020DB            PUSHL   #23
                        00000000G    EF    9F  020DD            PUSHAB  PAS$FV_OUTPUT
          00000000G  EF              03    FB  020E3            CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF    9F  020EA            PUSHAB  CUR_MAX_FIXED
          00000000G  EF              01    FB  020F0            CALLS   #1,NUM_LEN
```

```
                                       50   DD 020F7          PUSHL   R0
                          00000000G    EF   DD 020F9          PUSHL   CUR MAX FIXED
                          00000000G    EF   9F 020FF          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 02105          CALLS   #3,PAS$WRITE_INTEGER
                          FFFFAF1C     EF   9F 0210C          PUSHAB  C.AIG
                                       07   DD 02112          PUSHL   #7
                          00000000G    EF   9F 02114          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 0211A          CALLS   #3,PAS$WRITE_STRING
                                    0000V   31 02121          BRW     169$
                          00000000G    EF   9F 02124  109$:   PUSHAB  SHIFT                                  ; 1118
                                       04   DD 0212A          PUSHL   #4
                          00000000G    EF   9F 0212C          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 02132          CALLS   #3,PAS$WRITE STRING
   00V00000000G   EF                   00   E1 02139          BBC     #0,VARIABLE_RECORDS,111$               ; 1120
                          FFFFAEEF     EF   9F 02141          PUSHAB  C.AIH                                  ; 1122
                                       05   DD 02147          PUSHL   #5
                          00000000G    EF   9F 02149          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 0214F          CALLS   #3,PAS$WRITE_STRING
                          FFFFAEE2     EF   9F 02156  111$:   PUSHAB  C.AII                                  ; 1124
                                       0B   DD 0215C          PUSHL   #11
                          00000000G    EF   9F 0215E          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 02164          CALLS   #3,PAS$WRITE STRING
                       0F 00000100G    EF   D1 0216B          CMPL    IDATA+256,#15                          ; 1126
                                      00V   12 02172          BNEQ    113$
                          FFFFAED0     EF   9F 02174          PUSHAB  C.AIJ                                  ; 1128
                                       06   DD 0217A          PUSHL   #6
                          00000000G    EF   9F 0217C          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 02182          CALLS   #3,PAS$WRITE STRING
   00V00000000G   EF                   00   E0 02189  113$:   BBS     #0,VARIABLE_RECORDS,115$               ; 1130
                                       01   DD 02191          PUSHL   #1                                     ; 1132
                       7E 00000000G    EF   9A 02193          MOVZBL  TAB,-(SP)
                          00000000G    EF   9F 0219A          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 021A0          CALLS   #3,PAS$WRITE_CHAR
                          FFFFAEA5     EF   9F 021A7  115$:   PUSHAB  C.AIK                                  ; 1134
                                       05   DD 021AD          PUSHL   #5
                          00000000G    EF   9F 021AF          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 021B5          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF   9F 021BC          PUSHAB  CUR MAX REC
      00000000G   EF                   01   FB 021C2          CALLS   #1,NUM_LEN
                                       50   DD 021C9          PUSHL   R0
                          00000000G    EF   DD 021CB          PUSHL   CUR MAX REC
                          00000000G    EF   9F 021D1          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 021D7          CALLS   #3,PAS$WRITE_INTEGER
                                       01   DD 021DE          PUSHL   #1
                                       29   DD 021E0          PUSHL   #41
                          00000000G    EF   9F 021E2          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 021E8          CALLS   #3,PAS$WRITE_CHAR
                          00000000G    EF   9F 021EF          PUSHAB  ANSI_REVERSE
                                       04   DD 021F5          PUSHL   #4
                          00000000G    EF   9F 021F7          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 021FD          CALLS   #3,PAS$WRITE_STRING
                          FFFFAE50     EF   9F 02204          PUSHAB  C.AIL
                                       03   DD 0220A          PUSHL   #3
                          00000000G    EF   9F 0220C          PUSHAB  PAS$FV OUTPUT
      00000000G   EF                   03   FB 02212          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF   9F 02219          PUSHAB  ANSI_RESET
                                       04   DD 0221F          PUSHL   #4
```

```
                      00000000G  EF   9F 02221          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02227          CALLS   #3,PAS$WRITE_STRING
                      FFFFAE2A   EF   9F 0222E          PUSHAB  C.AIM
                                 03   DD 02234          PUSHL   #3
                      00000000G  EF   9F 02236          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0223C          CALLS   #3,PAS$WRITE_STRING
                             0000V    31 02243          BRW     169$
                      00000000   8F   DF 02246 116$:    PUSHAL  #0                                          ; 1147
        00000000G  EF            01   FB 0224C          CALLS   #1,CLEAR
     00V00000000G  EF            00   E0 02253          BBS     #0,FULL_PROMPT,118$                         ; 1149
     03 00000000G  EF            00   E0 0225B          BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V    31 02263          BRW     121$
                      00000000G  EF   9F 02266 118$:    PUSHAB  SHIFT                                       ; 1153
                                 04   DD 0226C          PUSHL   #4
                      00000000G  EF   9F 0226E          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02274          CALLS   #3,PAS$WRITE_STRING
                      FFFFADE1   EF   9F 0227B          PUSHAB  C.AIN
                                 02   DD 02281          PUSHL   #2
                      00000000G  EF   9F 02283          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02289          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 02290          PUSHAB  ANSI_REVERSE
                                 04   DD 02296          PUSHL   #4
                      00000000G  EF   9F 02298          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0229E          CALLS   #3,PAS$WRITE_STRING
                      FFFFADBB   EF   9F 022A5          PUSHAB  C.AIO
                                 04   DD 022AB          PUSHL   #4
                      00000000G  EF   9F 022AD          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 022B3          CALLS   #3,PAS$WRITE_STRING
                                 03   DD 022BA          PUSHL   #3
                      00000084G  EF   DD 022BC          PUSHL   IDATA+132
                      00000000G  EF   9F 022C2          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 022C8          CALLS   #3,PAS$WRITE_INTEGER
                      FFFFAD95   EF   9F 022CF          PUSHAB  C.AIP
                                 16   DD 022D5          PUSHL   #22
                      00000000G  EF   9F 022D7          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 022DD          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 022E4          PUSHAB  ANSI_RESET
                                 04   DD 022EA          PUSHL   #4
                      00000000G  EF   9F 022EC          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 022F2          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 022F9          PUSHAB  CRLF
                                 02   DD 022FF          PUSHL   #2
                      00000000G  EF   9F 02301          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02307          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 0230E          PUSHAB  CRLF_SHIFT
                                 06   DD 02314          PUSHL   #6
                      00000000G  EF   9F 02316          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0231C          CALLS   #3,PAS$WRITE_STRING
                      FFFFAD59   EF   9F 02323          PUSHAB  C.AIQ
                                 37   DD 02329          PUSHL   #55
                      00000000G  EF   9F 0232B          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02331          CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 02338          PUSHAB  CRLF_SHIFT
                                 06   DD 0233E          PUSHL   #6
                      00000000G  EF   9F 02340          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 02346          CALLS   #3,PAS$WRITE_STRING
                      FFFFAD67   EF   9F 0234D          PUSHAB  C.AIR
```

```
                                 3C  DD 02353          PUSHL   #60
                     00000000G   EF  9F 02355          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 0235B          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 02362          PUSHAB  CRLF_SHIFT
                                 06  DD 02368          PUSHL   #6
                     00000000G   EF  9F 0236A          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 02370          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD79    EF  9F 02377          PUSHAB  C.AIS
                                 3B  DD 0237D          PUSHL   #59
                     00000000G   EF  9F 0237F          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 02385          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 0238C          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            01  FB 02392          CALLS   #1,PAS$WRITELN2
                     00000084G   EF  D5 02399          TSTL    IDATA+132                                 ; 1168
                                 03  13 0239F          BEQL    .+3
                              0000V  31 023A1          BRW     120$
                     00000000G   EF  9F 023A4          PUSHAB  SHIFT                                     ; 1172
                                 04  DD 023AA          PUSHL   #4
                     00000000G   EF  9F 023AC          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 023B2          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD73    EF  9F 023B9          PUSHAB  C.AIT
                                 3E  DD 023BF          PUSHL   #62
                     00000000G   EF  9F 023C1          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 023C7          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 023CE          PUSHAB  CRLF_SHIFT
                                 06  DD 023D4          PUSHL   #6
                     00000000G   EF  9F 023D6          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 023DC          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD89    EF  9F 023E3          PUSHAB  C.AIU
                                 3C  DD 023E9          PUSHL   #60
                     00000000G   EF  9F 023EB          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 023F1          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 023F8          PUSHAB  CRLF_SHIFT
                                 06  DD 023FE          PUSHL   #6
                     00000000G   EF  9F 02400          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 02406          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD9B    EF  9F 0240D          PUSHAB  C.AIV
                                 3B  DD 02413          PUSHL   #59
                     00000000G   EF  9F 02415          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 0241B          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 02422          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            01  FB 02428          CALLS   #1,PAS$WRITELN2
                     00000000G   EF  9F 0242F  120$:   PUSHAB  PAS$FV_OUTPUT                             ; 1181
        00000000G  EF            01  FB 02435          CALLS   #1,PAS$WRITELN2
                                00V  11 0243C          BRB     125$
                     00000000G   EF  9F 0243E  121$:   PUSHAB  SHIFT                                     ; 1189
                                 04  DD 02444          PUSHL   #4
                     00000000G   EF  9F 02446          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 0244C          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD91    EF  9F 02453          PUSHAB  C.AIW
                                 0E  DD 02459          PUSHL   #14
                     00000000G   EF  9F 0245B          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03  FB 02461          CALLS   #3,PAS$WRITE_STRING
                     00000084G   EF  D5 02468          TSTL    IDATA+132                                 ; 1191
                                00V  12 0246E          BNEQ    123$
                     FFFFAD84    EF  9F 02470          PUSHAB  C.AIX                                     ; 1193
                                 11  DD 02476          PUSHL   #17
```

```
                               00000000G  EF     9F 02478          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 0247E          CALLS    #3,PAS$WRITE_STRING
                                           00V   11 02485          BRB      124$
                                           01    DD 02487 123$:    PUSHL    #1                              ; 1197
                                           29    DD 02489          PUSHL    #41
                               00000000G  EF     9F 0248B          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 02491          CALLS    #3,PAS$WRITE_CHAR
                               00000000G  EF     9F 02498 124$:    PUSHAB   PAS$FV_OUTPUT                   ; 1199
                   00000000G  EF           01    FB 0249E          CALLS    #1,PAS$WRITELN2
                               00000000G  EF     9F 024A5 125$:    PUSHAB   SHIFT                           ; 1206
                                           04    DD 024AB          PUSHL    #4
                               00000000G  EF     9F 024AD          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 024B3          CALLS    #3,PAS$WRITE_STRING
                               FFFFAD4E   EF     9F 024BA          PUSHAB   C.AIY
                                           21    DD 024C0          PUSHL    #33
                               00000000G  EF     9F 024C2          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 024C8          CALLS    #3,PAS$WRITE_STRING
                50 00000000G  EF           19    C5 024CF          MULL3    #25,QTAB_OFFSET,R0              ; 1208
    50 FFFFFEF2GEF40          20           00    EE 024D7          EXTV     #0,#32,QTAB-270[R0],R0
                05            00           50    CF 024E1          CASEL    R0,#0,#5
                                     0000V          024E5          .DISPL   127$
                                     0000V          024E7          .DISPL   129$
                                     0000V          024E9          .DISPL   130$
                                     0000V          024EB          .DISPL   131$
                                     0000V          024ED          .DISPL   128$
                                     0000V          024EF          .DISPL   126$
                                     0000V       31 024F1          BRW      132$
                               FFFFAD38   EF     9F 024F4 126$:    PUSHAB   C.AIZ                           ; 1210
                                           08    DD 024FA          PUSHL    #8
                               00000000G  EF     9F 024FC          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 02502          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02509          BRW      169$
                               FFFFAD28   EF     9F 0250C 127$:    PUSHAB   C.AJA                           ; 1211
                                           08    DD 02512          PUSHL    #8
                               00000000G  EF     9F 02514          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 0251A          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02521          BRW      169$
                               FFFFAD18   EF     9F 02524 128$:    PUSHAB   C.AJB                           ; 1212
                                           07    DD 0252A          PUSHL    #7
                               00000000G  EF     9F 0252C          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 02532          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02539          BRW      169$
                               FFFFAD08   EF     9F 0253C 129$:    PUSHAB   C.AJC                           ; 1213
                                           07    DD 02542          PUSHL    #7
                               00000000G  EF     9F 02544          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 0254A          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02551          BRW      169$
                               FFFFACF8   EF     9F 02554 130$:    PUSHAB   C.AJD                           ; 1214
                                           08    DD 0255A          PUSHL    #8
                               00000000G  EF     9F 0255C          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 02562          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02569          BRW      169$
                               FFFFACE8   EF     9F 0256C 131$:    PUSHAB   C.AJE                           ; 1215
                                           07    DD 02572          PUSHL    #7
                               00000000G  EF     9F 02574          PUSHAB   PAS$FV_OUTPUT
                   00000000G  EF           03    FB 0257A          CALLS    #3,PAS$WRITE_STRING
                                     0000V       31 02581          BRW      169$
```

```
                           0000V   31 02584 132$:   BRW      169$
                00000000     8F    DF 02587 134$:   PUSHAL   #0                                  ; 1232
   00000000G  EF             01    FB 0258D         CALLS    #1,CLEAR
00V00000000G  EF             00    E0 02594         BBS      #0,FULL_PROMPT,136$                 ; 1234
03 00000000G  EF             00    E0 0259C         BBS      #0,TEMP_FULL_PROMPT,.+3
                           0000V   31 025A4         BRW      140$
                00000000G    EF    9F 025A7 136$:   PUSHAB   SHIFT                               ; 1238
                             04    DD 025AD         PUSHL    #4
                00000000G    EF    9F 025AF         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 025B5         CALLS    #3,PAS$WRITE_STRING
                FFFFACA0     EF    9F 025BC         PUSHAB   C.AJF
                             02    DD 025C2         PUSHL    #2
                00000000G    EF    9F 025C4         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 025CA         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 025D1         PUSHAB   ANSI_REVERSE
                             04    DD 025D7         PUSHL    #4
                00000000G    EF    9F 025D9         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 025DF         CALLS    #3,PAS$WRITE_STRING
                FFFFAC7A     EF    9F 025E6         PUSHAB   C.AJG
                             1C    DD 025EC         PUSHL    #28
                00000000G    EF    9F 025EE         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 025F4         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 025FB         PUSHAB   ANSI_RESET
                             04    DD 02601         PUSHL    #4
                00000000G    EF    9F 02603         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 02609         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 02610         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             01    FB 02616         CALLS    #1,PAS$WRITELN2
03 00000000G  EF             00    E0 0261D         BBS      #0,DEC_CRT,.+3                      ; 1245
                           0000V   31 02625         BRW      138$
                00000000G    EF    9F 02628         PUSHAB   CRLF                                ; 1249
                             02    DD 0262E         PUSHL    #2
                00000000G    EF    9F 02630         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 02636         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 0263D         PUSHAB   LOW_SHIFT
                             03    DD 02643         PUSHL    #3
                00000000G    EF    9F 02645         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 0264B         CALLS    #3,PAS$WRITE_STRING
                FFFFAC2A     EF    9F 02652         PUSHAB   C.AJH
                0000005A     8F    DD 02658         PUSHL    #90
                00000000G    EF    9F 0265E         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 02664         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 0266B         PUSHAB   CRLF
                             02    DD 02671         PUSHL    #2
                00000000G    EF    9F 02673         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 02679         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 02680         PUSHAB   LOW_SHIFT
                             03    DD 02686         PUSHL    #3
                00000000G    EF    9F 02688         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 0268E         CALLS    #3,PAS$WRITE_STRING
                FFFFAC43     EF    9F 02695         PUSHAB   C.AJI
                0000005F     8F    DD 0269B         PUSHL    #95
                00000000G    EF    9F 026A1         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF             03    FB 026A7         CALLS    #3,PAS$WRITE_STRING
                00000000G    EF    9F 026AE         PUSHAB   CRLF
                             02    DD 026B4         PUSHL    #2
                00000000G    EF    9F 026B6         PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF                03  FB 026BC       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 026C3       PUSHAB  LOW_SHIFT
                             03  DD 026C9       PUSHL   #3
              00000000G      EF  9F 026CB       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 026D1       CALLS   #3,PAS$WRITE_STRING
              FFFFAC60       EF  9F 026D8       PUSHAB  C.AJJ
              00000059       8F  DD 026DE       PUSHL   #89
              00000000G      EF  9F 026E4       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 026EA       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 026F1       PUSHAB  CRLF
                             02  DD 026F7       PUSHL   #2
              00000000G      EF  9F 026F9       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 026FF       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 02706       PUSHAB  LOW_SHIFT
                             03  DD 0270C       PUSHL   #3
              00000000G      EF  9F 0270E       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 02714       CALLS   #3,PAS$WRITE_STRING
              FFFFAC79       EF  9F 0271B       PUSHAB  C.AJK
              0000005F       8F  DD 02721       PUSHL   #95
              00000000G      EF  9F 02727       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0272D       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 02734       PUSHAB  CRLF
                             02  DD 0273A       PUSHL   #2
              00000000G      EF  9F 0273C       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 02742       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 02749       PUSHAB  LOW_SHIFT
                             03  DD 0274F       PUSHL   #3
              00000000G      EF  9F 02751       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 02757       CALLS   #3,PAS$WRITE_STRING
              FFFFAC96       EF  9F 0275E       PUSHAB  C.AJL
              0000005B       8F  DD 02764       PUSHL   #91
              00000000G      EF  9F 0276A       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 02770       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 02777       PUSHAB  CRLF
                             02  DD 0277D       PUSHL   #2
              00000000G      EF  9F 0277F       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 02785       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 0278C       PUSHAB  LOW_SHIFT
                             03  DD 02792       PUSHL   #3
              00000000G      EF  9F 02794       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0279A       CALLS   #3,PAS$WRITE_STRING
              FFFFACAF       EF  9F 027A1       PUSHAB  C.AJM
              0000005F       8F  DD 027A7       PUSHL   #95
              00000000G      EF  9F 027AD       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 027B3       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 027BA       PUSHAB  CRLF
                             02  DD 027C0       PUSHL   #2
              00000000G      EF  9F 027C2       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 027C8       CALLS   #3,PAS$WRITE_STRING
              00000000G      EF  9F 027CF       PUSHAB  LOW_SHIFT
                             03  DD 027D5       PUSHL   #3
              00000000G      EF  9F 027D7       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 027DD       CALLS   #3,PAS$WRITE_STRING
              FFFFACCC       EF  9F 027E4       PUSHAB  C.AJN
              0000005D       8F  DD 027EA       PUSHL   #93
              00000000G      EF  9F 027F0       PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 027F6       CALLS   #3,PAS$WRITE_STRING
```

```
                     00000000G  EF    9F 027FD          PUSHAB  CRLF
                                02    DD 02803          PUSHL   #2
                     00000000G  EF    9F 02805          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 0280B          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02812          PUSHAB  LOW_SHIFT
                                03    DD 02818          PUSHL   #3
                     00000000G  EF    9F 0281A          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 02820          CALLS   #3,PAS$WRITE_STRING
                     FFFFACE9   EF    9F 02827          PUSHAB  C.AJO
                     0000005F   8F    DD 0282D          PUSHL   #95
                     00000000G  EF    9F 02833          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 02839          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02840          PUSHAB  CRLF
                                02    DD 02846          PUSHL   #2
                     00000000G  EF    9F 02848          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 0284E          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02855          PUSHAB  LOW_SHIFT
                                03    DD 0285B          PUSHL   #3
                     00000000G  EF    9F 0285D          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 02863          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD06   EF    9F 0286A          PUSHAB  C.AJP
                     00000057   8F    DD 02870          PUSHL   #87
                     00000000G  EF    9F 02876          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 0287C          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02883          PUSHAB  CRLF
                                02    DD 02889          PUSHL   #2
                     00000000G  EF    9F 0288B          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 02891          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02898          PUSHAB  LOW_SHIFT
                                03    DD 0289E          PUSHL   #3
                     00000000G  EF    9F 028A0          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 028A6          CALLS   #3,PAS$WRITE_STRING
                     FFFFAD1B   EF    9F 028AD          PUSHAB  C.AJQ
                     0000004B   8F    DD 028B3          PUSHL   #75
                     00000000G  EF    9F 028B9          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 028BF          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 028C6          PUSHAB  CRLF
                                02    DD 028CC          PUSHL   #2
                     00000000G  EF    9F 028CE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 028D4          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 028DB          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   01    FB 028E1          CALLS   #1,PAS$WRITELN2
                              0000V   31 028E8          BRW     139$
                     00000000G  EF    9F 028EB 138$:    PUSHAB  CRLF                                    ; 1277
                                02    DD 028F1          PUSHL   #2
                     00000000G  EF    9F 028F3          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 028F9          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 02900          PUSHAB  LOW_SHIFT
                                03    DD 02906          PUSHL   #3
                     00000000G  EF    9F 02908          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 0290E          CALLS   #3,PAS$WRITE_STRING
                     FFFFACFF   EF    9F 02915          PUSHAB  C.AJR
                     0000004E   8F    DD 0291B          PUSHL   #78
                     00000000G  EF    9F 02921          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                   03    FB 02927          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF    9F 0292E          PUSHAB  CRLF
                                02    DD 02934          PUSHL   #2
```

```
                        00000000G  EF   9F 02936        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 0293C        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02943        PUSHAB  LOW_SHIFT
                                   03   DD 02949        PUSHL   #3
                        00000000G  EF   9F 0294B        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02951        CALLS   #3,PAS$WRITE_STRING
                        FFFFAD0C   EF   9F 02958        PUSHAB  C.AJS
                        0000004E   8F   DD 0295E        PUSHL   #78
                        00000000G  EF   9F 02964        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 0296A        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02971        PUSHAB  CRLF
                                   02   DD 02977        PUSHL   #2
                        00000000G  EF   9F 02979        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 0297F        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02986        PUSHAB  LOW_SHIFT
                                   03   DD 0298C        PUSHL   #3
                        00000000G  EF   9F 0298E        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02994        CALLS   #3,PAS$WRITE_STRING
                        FFFFAD19   EF   9F 0299B        PUSHAB  C.AJT
                        0000004E   8F   DD 029A1        PUSHL   #78
                        00000000G  EF   9F 029A7        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 029AD        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 029B4        PUSHAB  CRLF
                                   02   DD 029BA        PUSHL   #2
                        00000000G  EF   9F 029BC        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 029C2        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 029C9        PUSHAB  LOW_SHIFT
                                   03   DD 029CF        PUSHL   #3
                        00000000G  EF   9F 029D1        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 029D7        CALLS   #3,PAS$WRITE_STRING
                        FFFFAD26   EF   9F 029DE        PUSHAB  C.AJU
                        0000004E   8F   DD 029E4        PUSHL   #78
                        00000000G  EF   9F 029EA        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 029F0        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 029F7        PUSHAB  CRLF
                                   02   DD 029FD        PUSHL   #2
                        00000000G  EF   9F 029FF        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A05        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02A0C        PUSHAB  LOW_SHIFT
                                   03   DD 02A12        PUSHL   #3
                        00000000G  EF   9F 02A14        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A1A        CALLS   #3,PAS$WRITE_STRING
                        FFFFAD33   EF   9F 02A21        PUSHAB  C.AJV
                        0000004E   8F   DD 02A27        PUSHL   #78
                        00000000G  EF   9F 02A2D        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A33        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02A3A        PUSHAB  CRLF
                                   02   DD 02A40        PUSHL   #2
                        00000000G  EF   9F 02A42        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A48        CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02A4F        PUSHAB  LOW_SHIFT
                                   03   DD 02A55        PUSHL   #3
                        00000000G  EF   9F 02A57        PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A5D        CALLS   #3,PAS$WRITE_STRING
                        FFFFAD40   EF   9F 02A64        PUSHAB  C.AJW
                        0000004E   8F   DD 02A6A        PUSHL   #78
                        00000000G  EF   9F 02A70        PUSHAB  PAS$FV_OUTPUT
```

```
  00000000G  EF             03  FB 02A76             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02A7D             PUSHAB  CRLF
                            02  DD 02A83             PUSHL   #2
                 00000000G  EF  9F 02A85             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02A8B             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02A92             PUSHAB  LOW_SHIFT
                            03  DD 02A98             PUSHL   #3
                 00000000G  EF  9F 02A9A             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02AA0             CALLS   #3,PAS$WRITE_STRING
                 FFFFAD4D   EF  9F 02AA7             PUSHAB  C.AJX
                 0000004E   8F  DD 02AAD             PUSHL   #78
                 00000000G  EF  9F 02AB3             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02AB9             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02AC0             PUSHAB  CRLF
                            02  DD 02AC6             PUSHL   #2
                 00000000G  EF  9F 02AC8             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02ACE             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02AD5             PUSHAB  LOW_SHIFT
                            03  DD 02ADB             PUSHL   #3
                 00000000G  EF  9F 02ADD             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02AE3             CALLS   #3,PAS$WRITE_STRING
                 FFFFAD5A   EF  9F 02AEA             PUSHAB  C.AJY
                 0000004E   8F  DD 02AF0             PUSHL   #78
                 00000000G  EF  9F 02AF6             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02AFC             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B03             PUSHAB  CRLF
                            02  DD 02B09             PUSHL   #2
                 00000000G  EF  9F 02B0B             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B11             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B18             PUSHAB  LOW_SHIFT
                            03  DD 02B1E             PUSHL   #3
                 00000000G  EF  9F 02B20             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B26             CALLS   #3,PAS$WRITE_STRING
                 FFFFAD67   EF  9F 02B2D             PUSHAB  C.AJZ
                 0000004E   8F  DD 02B33             PUSHL   #78
                 00000000G  EF  9F 02B39             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B3F             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B46             PUSHAB  CRLF
                            02  DD 02B4C             PUSHL   #2
                 00000000G  EF  9F 02B4E             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B54             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B5B             PUSHAB  LOW_SHIFT
                            03  DD 02B61             PUSHL   #3
                 00000000G  EF  9F 02B63             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B69             CALLS   #3,PAS$WRITE_STRING
                 FFFFAD74   EF  9F 02B70             PUSHAB  C.AKA
                 0000004B   8F  DD 02B76             PUSHL   #75
                 00000000G  EF  9F 02B7C             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B82             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B89             PUSHAB  CRLF
                            02  DD 02B8F             PUSHL   #2
                 00000000G  EF  9F 02B91             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             03  FB 02B97             CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF  9F 02B9E             PUSHAB  PAS$FV_OUTPUT
  00000000G  EF             01  FB 02BA4             CALLS   #1,PAS$WRITELN2
                            00V 11 02BAB 139$:       BRB     141$
                 00000000G  EF  9F 02BAD 140$:       PUSHAB  SHIFT                                        ; 1307
```

```
                                       04   DD 02BB3         PUSHL   #4
                        00000000G      EF   9F 02BB5         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02BBB         CALLS   #3,PAS$WRITE_STRING
                        FFFFAD6E       EF   9F 02BC2         PUSHAB  C.AKB
                                       1B   DD 02BC8         PUSHL   #27
                        00000000G      EF   9F 02BCA         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02BD0         CALLS   #3,PAS$WRITE_STRING
                        00000000G      EF   9F 02BD7         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                01   FB 02BDD         CALLS   #1,PAS$WRITELN2
                        00000000G      EF   9F 02BE4  141$:  PUSHAB  SHIFT                                       ; 1314
                                       04   DD 02BEA         PUSHL   #4
                        00000000G      EF   9F 02BEC         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02BF2         CALLS   #3,PAS$WRITE_STRING
                        FFFFAD53       EF   9F 02BF9         PUSHAB  C.AKC
                                       2B   DD 02BFF         PUSHL   #43
                        00000000G      EF   9F 02C01         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02C07         CALLS   #3,PAS$WRITE_STRING
                        00000000G      EF   9F 02C0E         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                01   FB 02C14         CALLS   #1,PAS$WRITELN2
                        00000000G      EF   9F 02C1B         PUSHAB  SHIFT                                       ; 1315
                                       04   DD 02C21         PUSHL   #4
                        00000000G      EF   9F 02C23         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02C29         CALLS   #3,PAS$WRITE_STRING
                        FFFFAD48       EF   9F 02C30         PUSHAB  C.AKD
                                       2F   DD 02C36         PUSHL   #47
                        00000000G      EF   9F 02C38         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02C3E         CALLS   #3,PAS$WRITE_STRING
                                   0000V    31 02C45         BRW     169$
                        00000000       8F   DF 02C48  142$:  PUSHAL  #0                                          ; 1327
          00000000G  EF                01   FB 02C4E         CALLS   #1,CLEAR
        00v00000000G EF                00   E0 02C55         BBS     #0,FULL_PROMPT,144$                         ; 1329
        03 00000000G EF                00   E0 02C5D         BBS     #0,TEMP_FULL_PROMPT,.+3
                                   0000V    31 02C65         BRW     145$
                        00000000G      EF   9F 02C68  144$:  PUSHAB  SHIFT                                       ; 1333
                                       04   DD 02C6E         PUSHL   #4
                        00000000G      EF   9F 02C70         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02C76         CALLS   #3,PAS$WRITE_STRING
                        FFFFAD2B       EF   9F 02C7D         PUSHAB  C.AKE
                                       02   DD 02C83         PUSHL   #2
                        00000000G      EF   9F 02C85         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02C8B         CALLS   #3,PAS$WRITE_STRING
                        00000000G      EF   9F 02C92         PUSHAB  ANSI_REVERSE
                                       04   DD 02C98         PUSHL   #4
                        00000000G      EF   9F 02C9A         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02CA0         CALLS   #3,PAS$WRITE_STRING
                        FFFFAD05       EF   9F 02CA7         PUSHAB  C.AKF
                                       19   DD 02CAD         PUSHL   #25
                        00000000G      EF   9F 02CAF         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02CB5         CALLS   #3,PAS$WRITE_STRING
                        00000000G      EF   9F 02CBC         PUSHAB  ANSI_RESET
                                       04   DD 02CC2         PUSHL   #4
                        00000000G      EF   9F 02CC4         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02CCA         CALLS   #3,PAS$WRITE_STRING
                        00000000G      EF   9F 02CD1         PUSHAB  CRLF
                                       02   DD 02CD7         PUSHL   #2
                        00000000G      EF   9F 02CD9         PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03   FB 02CDF         CALLS   #3,PAS$WRITE_STRING
```

```
                       00000000G   EF   9F 02CE6          PUSHAB  CRLF_SHIFT
                              06        DD 02CEC          PUSHL   #6
                       00000000G   EF   9F 02CEE          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02CF4          CALLS   #3,PAS$WRITE_STRING
                       FFFFACCD    EF   9F 02CFB          PUSHAB  C.AKG
                              26        DD 02D01          PUSHL   #38
                       00000000G   EF   9F 02D03          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D09          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02D10          PUSHAB  CRLF_SHIFT
                              06        DD 02D16          PUSHL   #6
                       00000000G   EF   9F 02D18          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D1E          CALLS   #3,PAS$WRITE_STRING
                       FFFFACCB    EF   9F 02D25          PUSHAB  C.AKH
                              21        DD 02D2B          PUSHL   #33
                       00000000G   EF   9F 02D2D          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D33          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02D3A          PUSHAB  CRLF_SHIFT
                              06        DD 02D40          PUSHL   #6
                       00000000G   EF   9F 02D42          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D48          CALLS   #3,PAS$WRITE_STRING
                       FFFFACC5    EF   9F 02D4F          PUSHAB  C.AKI
                              2B        DD 02D55          PUSHL   #43
                       00000000G   EF   9F 02D57          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D5D          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02D64          PUSHAB  CRLF_SHIFT
                              06        DD 02D6A          PUSHL   #6
                       00000000G   EF   9F 02D6C          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D72          CALLS   #3,PAS$WRITE_STRING
                       FFFFACC7    EF   9F 02D79          PUSHAB  C.AKJ
                              2C        DD 02D7F          PUSHL   #44
                       00000000G   EF   9F 02D81          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D87          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02D8E          PUSHAB  CRLF_SHIFT
                              06        DD 02D94          PUSHL   #6
                       00000000G   EF   9F 02D96          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02D9C          CALLS   #3,PAS$WRITE_STRING
                       FFFFACC9    EF   9F 02DA3          PUSHAB  C.AKK
                              2B        DD 02DA9          PUSHL   #43
                       00000000G   EF   9F 02DAB          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02DB1          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02DB8          PUSHAB  CRLF_SHIFT
                              06        DD 02DBE          PUSHL   #6
                       00000000G   EF   9F 02DC0          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02DC6          CALLS   #3,PAS$WRITE_STRING
                       FFFFACCB    EF   9F 02DCD          PUSHAB  C.AKL
                              23        DD 02DD3          PUSHL   #35
                       00000000G   EF   9F 02DD5          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02DDB          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02DE2          PUSHAB  CRLF_SHIFT
                              06        DD 02DE8          PUSHL   #6
                       00000000G   EF   9F 02DEA          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02DF0          CALLS   #3,PAS$WRITE_STRING
                       FFFFACC5    EF   9F 02DF7          PUSHAB  C.AKM
                              2A        DD 02DFD          PUSHL   #42
                       00000000G   EF   9F 02DFF          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF              03    FB 02E05          CALLS   #3,PAS$WRITE_STRING
                       00000000G   EF   9F 02E0C          PUSHAB  CRLF_SHIFT
```

```
                                    06    DD 02E12           PUSHL   #6
                       00000000G    EF    9F 02E14           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E1A           CALLS   #3,PAS$WRITE_STRING
                       FFFFACC7     EF    9F 02E21           PUSHAB  C.AKN
                                    2F    DD 02E27           PUSHL   #47
                       00000000G    EF    9F 02E29           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E2F           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02E36           PUSHAB  CRLF
                                    02    DD 02E3C           PUSHL   #2
                       00000000G    EF    9F 02E3E           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E44           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02E4B           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              01    FB 02E51           CALLS   #1,PAS$WRITELN2
                                   00V    11 02E58           BRB     146$
                       00000000G    EF    9F 02E5A  145$:    PUSHAB  SHIFT                                    ; 1364
                                    04    DD 02E60           PUSHL   #4
                       00000000G    EF    9F 02E62           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E68           CALLS   #3,PAS$WRITE_STRING
                       FFFFACA9     EF    9F 02E6F           PUSHAB  C.AKO
                                    26    DD 02E75           PUSHL   #38
                       00000000G    EF    9F 02E77           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E7D           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02E84           PUSHAB  CRLF_SHIFT
                                    06    DD 02E8A           PUSHL   #6
                       00000000G    EF    9F 02E8C           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02E92           CALLS   #3,PAS$WRITE_STRING
                       FFFFACA7     EF    9F 02E99           PUSHAB  C.AKP
                                    28    DD 02E9F           PUSHL   #40
                       00000000G    EF    9F 02EA1           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02EA7           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02EAE           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              01    FB 02EB4           CALLS   #1,PAS$WRITELN2
                       00000000G    EF    9F 02EBB  146$:    PUSHAB  SHIFT                                    ; 1373
                                    04    DD 02EC1           PUSHL   #4
                       00000000G    EF    9F 02EC3           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02EC9           CALLS   #3,PAS$WRITE_STRING
                       FFFFAC98     EF    9F 02ED0           PUSHAB  C.AKQ
                                    26    DD 02ED6           PUSHL   #38
                       00000000G    EF    9F 02ED8           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02EDE           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02EE5           PUSHAB  ANSI_REVERSE
                                    04    DD 02EEB           PUSHL   #4
                       00000000G    EF    9F 02EED           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02EF3           CALLS   #3,PAS$WRITE_STRING
                       FFFFAC96     EF    9F 02EFA           PUSHAB  C.AKR
                                    03    DD 02F00           PUSHL   #3
                       00000000G    EF    9F 02F02           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02F08           CALLS   #3,PAS$WRITE_STRING
                       00000000G    EF    9F 02F0F           PUSHAB  ANSI_RESET
                                    04    DD 02F15           PUSHL   #4
                       00000000G    EF    9F 02F17           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02F1D           CALLS   #3,PAS$WRITE_STRING
                       FFFFAC70     EF    9F 02F24           PUSHAB  C.AKS
                                    03    DD 02F2A           PUSHL   #3
                       00000000G    EF    9F 02F2C           PUSHAB  PAS$FV_OUTPUT
         00000000G  EF              03    FB 02F32           CALLS   #3,PAS$WRITE_STRING
                                 0000V    31 02F39           BRW     169$
```

```
                 00000000G  EF    9F 02F3C 147$:   PUSHAB  SHIFT                                    ; 1383
                            04    DD 02F42         PUSHL   #4
                 00000000G  EF    9F 02F44         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02F4A         CALLS   #3,PAS$WRITE_STRING
                 FFFFAC47   EF    9F 02F51         PUSHAB  C.AKT
                            16    DD 02F57         PUSHL   #22
                 00000000G  EF    9F 02F59         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02F5F         CALLS   #3,PAS$WRITE_STRING
              03 00000108G  EF    D1 02F66         CMPL    IDATA+264,#3                             ; 1385
                            03    13 02F6D         BEQL    .+3
                         0000V    31 02F6F         BRW     149$
                 00000000G  EF    D4 02F72         CLRL    EXTRA                                    ; 1389
                 00000000G  EF    9F 02F78         PUSHAB  LOWMAX                                   ; 1390
   00000000G  EF            01    FB 02F7E         CALLS   #1,NUM_LEN
                            50    DD 02F85         PUSHL   R0
                 00000000G  EF    DD 02F87         PUSHL   LOWMAX
                 00000000G  EF    9F 02F8D         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02F93         CALLS   #3,PAS$WRITE_INTEGER
                            01    DD 02F9A         PUSHL   #1
                            2D    DD 02F9C         PUSHL   #45
                 00000000G  EF    9F 02F9E         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02FA4         CALLS   #3,PAS$WRITE_CHAR
                 00000000G  EF    9F 02FAB         PUSHAB  CUR_MAX_REC
   00000000G  EF            01    FB 02FB1         CALLS   #1,NUM_LEN
                            50    DD 02FB8         PUSHL   R0
                 00000000G  EF    DD 02FBA         PUSHL   CUR_MAX_REC
                 00000000G  EF    9F 02FC0         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02FC6         CALLS   #3,PAS$WRITE_INTEGER
                            01    DD 02FCD         PUSHL   #1
                            29    DD 02FCF         PUSHL   #41
                 00000000G  EF    9F 02FD1         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02FD7         CALLS   #3,PAS$WRITE_CHAR
                 00000000G  EF    9F 02FDE         PUSHAB  ANSI_REVERSE
                            04    DD 02FE4         PUSHL   #4
                 00000000G  EF    9F 02FE6         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 02FEC         CALLS   #3,PAS$WRITE_STRING
                 FFFFABBD   EF    9F 02FF3         PUSHAB  C.AKU
                            03    DD 02FF9         PUSHL   #3
                 00000000G  EF    9F 02FFB         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 03001         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF    9F 03008         PUSHAB  ANSI_RESET
                            04    DD 0300E         PUSHL   #4
                 00000000G  EF    9F 03010         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 03016         CALLS   #3,PAS$WRITE_STRING
50 00000000G  EF            19    C5 0301D         MULL3   #25,QTAB_OFFSET,R0                       ; 1394
                 FFFFFEF1GEF40    94 03025         CLRB    QTAB-271[R0]
                         0000V    31 0302C         BRW     150$
   00000000G  EF            02    D0 0302F 149$:   MOVL    #2,EXTRA                                 ; 1402
                 FFFFAB7E   EF    9F 03036         PUSHAB  C.AKV                                    ; 1403
                            02    DD 0303C         PUSHL   #2
                 00000000G  EF    9F 0303E         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF            03    FB 03044         CALLS   #3,PAS$WRITE_STRING
                 00000000G  EF    9F 0304B         PUSHAB  LOWMAX
   00000000G  EF            01    FB 03051         CALLS   #1,NUM_LEN
                            50    DD 03058         PUSHL   R0
                 00000000G  EF    DD 0305A         PUSHL   LOWMAX
                 00000000G  EF    9F 03060         PUSHAB  PAS$FV_OUTPUT
```

```
     00000000G  EF              03   FB 03066          CALLS    #3,PAS$WRITE_INTEGER
                                01   DD 0306D          PUSHL    #1
                                2D   DD 0306F          PUSHL    #45
                    00000000G   EF   9F 03071          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 03077          CALLS    #3,PAS$WRITE_CHAR
                    00000000G   EF   9F 0307E          PUSHAB   CUR_MAX_REC
     00000000G  EF              01   FB 03084          CALLS    #1,NUM_LEN
                                50   DD 0308B          PUSHL    R0
                    00000000G   EF   DD 0308D          PUSHL    CUR_MAX_REC
                    00000000G   EF   9F 03093          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 03099          CALLS    #3,PAS$WRITE_INTEGER
                    FFFFAB18    EF   9F 030A0          PUSHAB   C.AKW
                                04   DD 030A6          PUSHL    #4
                    00000000G   EF   9F 030A8          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 030AE          CALLS    #3,PAS$WRITE_STRING
  50 00000000G  EF              19   C5 030B5          MULL3    #25,QTAB_OFFSET,R0                              ; 1406
     FFFFFEF1GEF40              01   90 030BD          MOVB     #1,QTAB-271[R0]
  50 00000000G  EF              19   C5 030C5          MULL3    #25,QTAB_OFFSET,R0                              ; 1407
                5C  FFFFFEF2G   EF   9E 030CD          MOVAB    QTAB-270,R12
                5C              50   C0 030D4          ADDL2    R0,R12
                                6C   D4 030D7          CLRL     (R12)
                    00000000G   EF   9F 030D9 150$:    PUSHAB   CUR_MAX_REC                                     ; 1411
     00000000G  EF              01   FB 030DF          CALLS    #1,NUM_LEN
                5C              50   D0 030E6          MOVL     R0,R12
                    00000000G   EF   9F 030E9          PUSHAB   LOWMAX
     00000000G  EF              01   FB 030EF          CALLS    #1,NUM_LEN
                50  00000000G   EF   C0 030F6          ADDL2    EXTRA,R0
                50              5C   C0 030FD          ADDL2    R12,R0
                09              50   D1 03100          CMPL     R0,#9
                               00V   15 03103          BLEQ     152$
                    FFFFAAB7    EF   9F 03105          PUSHAB   C.AKX                                           ; 1415
                                03   DD 0310B          PUSHL    #3
                    00000000G   EF   9F 0310D          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 03113          CALLS    #3,PAS$WRITE_STRING
                             0000V   31 0311A          BRW      169$
                    FFFFAAA3    EF   9F 0311D 152$:    PUSHAB   C.AKY                                           ; 1419
                                03   DD 03123          PUSHL    #3
                    00000000G   EF   9F 03125          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 0312B          CALLS    #3,PAS$WRITE_STRING
                             0000V   31 03132          BRW      169$
                    00000000    8F   DF 03135 154$:    PUSHAL   #0                                              ; 1427
     00000000G  EF              01   FB 0313B          CALLS    #1,CLEAR
  03 00000000G  EF              00   E0 03142          BBS      #0,FULL_CHOICE,.+3                              ; 1429
                             0000V   31 0314A          BRW      160$
  00V00000000G  EF              00   E0 0314D          BBS      #0,FULL_PROMPT,157$                             ; 1433
  03 00000000G  EF              00   E0 03155          BBS      #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 0315D          BRW      158$
                    00000000G   EF   9F 03160 157$:    PUSHAB   SHIFT                                           ; 1437
                                04   DD 03166          PUSHL    #4
                    00000000G   EF   9F 03168          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 0316E          CALLS    #3,PAS$WRITE_STRING
                    FFFFAA4F    EF   9F 03175          PUSHAB   C.AKZ
                                02   DD 0317B          PUSHL    #2
                    00000000G   EF   9F 0317D          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF              03   FB 03183          CALLS    #3,PAS$WRITE_STRING
                    00000000G   EF   9F 0318A          PUSHAB   ANSI_REVERSE
                                04   DD 03190          PUSHL    #4
```

```
                     00000000G  EF   9F 03192          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03198          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA29   EF   9F 0319F          PUSHAB  C.ALA
                                1A   DD 031A5          PUSHL   #26
                     00000000G  EF   9F 031A7          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 031AD          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 031B4          PUSHAB  ANSI_RESET
                                04   DD 031BA          PUSHL   #4
                     00000000G  EF   9F 031BC          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 031C2          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 031C9          PUSHAB  CRLF
                                02   DD 031CF          PUSHL   #2
                     00000000G  EF   9F 031D1          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 031D7          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 031DE          PUSHAB  CRLF_SHIFT
                                06   DD 031E4          PUSHL   #6
                     00000000G  EF   9F 031E6          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 031EC          CALLS   #3,PAS$WRITE_STRING
                     FFFFA9F1   EF   9F 031F3          PUSHAB  C.ALB
                                3A   DD 031F9          PUSHL   #58
                     00000000G  EF   9F 031FB          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03201          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 03208          PUSHAB  CRLF_SHIFT
                                06   DD 0320E          PUSHL   #6
                     00000000G  EF   9F 03210          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03216          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA03   EF   9F 0321D          PUSHAB  C.ALC
                                3B   DD 03223          PUSHL   #59
                     00000000G  EF   9F 03225          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 0322B          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 03232          PUSHAB  CRLF_SHIFT
                                06   DD 03238          PUSHL   #6
                     00000000G  EF   9F 0323A          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03240          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA15   EF   9F 03247          PUSHAB  C.ALD
                                33   DD 0324D          PUSHL   #51
                     00000000G  EF   9F 0324F          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03255          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 0325C          PUSHAB  CRLF_SHIFT
                                06   DD 03262          PUSHL   #6
                     00000000G  EF   9F 03264          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 0326A          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA1F   EF   9F 03271          PUSHAB  C.ALE
                                33   DD 03277          PUSHL   #51
                     00000000G  EF   9F 03279          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 0327F          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 03286          PUSHAB  CRLF_SHIFT
                                06   DD 0328C          PUSHL   #6
                     00000000G  EF   9F 0328E          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 03294          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA29   EF   9F 0329B          PUSHAB  C.ALF
                                2F   DD 032A1          PUSHL   #47
                     00000000G  EF   9F 032A3          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF          03   FB 032A9          CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF   9F 032B0          PUSHAB  CRLF_SHIFT
                                06   DD 032B6          PUSHL   #6
                     00000000G  EF   9F 032B8          PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF              03   FB 032BE          CALLS    #3,PAS$WRITE_STRING
                FFFFAA2F   EF   9F 032C5          PUSHAB   C.ALG
                           3C   DD 032CB          PUSHL    #60
                00000000G  EF   9F 032CD          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 032D3          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 032DA          PUSHAB   CRLF_SHIFT
                           06   DD 032E0          PUSHL    #6
                00000000G  EF   9F 032E2          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 032E8          CALLS    #3,PAS$WRITE_STRING
                FFFFAA41   EF   9F 032EF          PUSHAB   C.ALH
                           34   DD 032F5          PUSHL    #52
                00000000G  EF   9F 032F7          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 032FD          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 03304          PUSHAB   CRLF_SHIFT
                           06   DD 0330A          PUSHL    #6
                00000000G  EF   9F 0330C          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 03312          CALLS    #3,PAS$WRITE_STRING
                FFFFAA4B   EF   9F 03319          PUSHAB   C.ALI
                           38   DD 0331F          PUSHL    #56
                00000000G  EF   9F 03321          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 03327          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 0332E          PUSHAB   CRLF_SHIFT
                           06   DD 03334          PUSHL    #6
                00000000G  EF   9F 03336          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 0333C          CALLS    #3,PAS$WRITE_STRING
                FFFFAA59   EF   9F 03343          PUSHAB   C.ALJ
                           3C   DD 03349          PUSHL    #60
                00000000G  EF   9F 0334B          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 03351          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 03358          PUSHAB   CRLF_SHIFT
                           06   DD 0335E          PUSHL    #6
                00000000G  EF   9F 03360          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 03366          CALLS    #3,PAS$WRITE_STRING
                FFFFAA6B   EF   9F 0336D          PUSHAB   C.ALK
                           3A   DD 03373          PUSHL    #58
                00000000G  EF   9F 03375          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 0337B          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 03382          PUSHAB   CRLF_SHIFT
                           06   DD 03388          PUSHL    #6
                00000000G  EF   9F 0338A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 03390          CALLS    #3,PAS$WRITE_STRING
                FFFFAA7D   EF   9F 03397          PUSHAB   C.ALL
                           29   DD 0339D          PUSHL    #41
                00000000G  EF   9F 0339F          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 033A5          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 033AC          PUSHAB   CRLF
                           02   DD 033B2          PUSHL    #2
                00000000G  EF   9F 033B4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 033BA          CALLS    #3,PAS$WRITE_STRING
                00000000G  EF   9F 033C1          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              01   FB 033C7          CALLS    #1,PAS$WRITELN2
                          00V   11 033CE          BRB      159$
                00000000G  EF   9F 033D0 158$:    PUSHAB   SHIFT                                  ; 1474
                           04   DD 033D6          PUSHL    #4
                00000000G  EF   9F 033D8          PUSHAB   PAS$FV_OUTPUT
00000000G  EF              03   FB 033DE          CALLS    #3,PAS$WRITE_STRING
                FFFFAA5B   EF   9F 033E5          PUSHAB   C.ALM
```

```
                                 26   DD 033EB          PUSHL   #38
                     00000000G   EF   9F 033ED          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 033F3          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 033FA          PUSHAB  CRLF_SHIFT
                                 06   DD 03400          PUSHL   #6
                     00000000G   EF   9F 03402          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 03408          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA59    EF   9F 0340F          PUSHAB  C.ALN
                                 21   DD 03415          PUSHL   #33
                     00000000G   EF   9F 03417          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0341D          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 03424          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            01   FB 0342A          CALLS   #1,PAS$WRITELN2
                              0000V   31 03431 159$:    BRW     165$
      00V00000000G  EF           00   E0 03434 160$:    BBS     #0,FULL_PROMPT,162$                          ; 1487
      03 00000000G  EF           00   E0 0343C          BBS     #0,TEMP_FULL_PROMPT,.+3
                              0000V   31 03444          BRW     163$
                     00000000G   EF   9F 03447 162$:    PUSHAB  SHIFT                                        ; 1491
                                 04   DD 0344D          PUSHL   #4
                     00000000G   EF   9F 0344F          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 03455          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA2E    EF   9F 0345C          PUSHAB  C.ALO
                                 02   DD 03462          PUSHL   #2
                     00000000G   EF   9F 03464          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0346A          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 03471          PUSHAB  ANSI_REVERSE
                                 04   DD 03477          PUSHL   #4
                     00000000G   EF   9F 03479          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 0347F          CALLS   #3,PAS$WRITE_STRING
                     FFFFAA06    EF   9F 03486          PUSHAB  C.ALP
                                 1C   DD 0348C          PUSHL   #28
                     00000000G   EF   9F 0348E          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 03494          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 0349B          PUSHAB  ANSI_RESET
                                 04   DD 034A1          PUSHL   #4
                     00000000G   EF   9F 034A3          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 034A9          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 034B0          PUSHAB  CRLF
                                 02   DD 034B6          PUSHL   #2
                     00000000G   EF   9F 034B8          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            03   FB 034BE          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF   9F 034C5          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF            01   FB 034CB          CALLS   #1,PAS$WRITELN2
                     000000FC    8F   DD 034D2          PUSHL   #252                                         ; 1502
                                 07   DD 034D8          PUSHL   #7
                                 04   DD 034DA          PUSHL   #4
                     00000000G   EF   9F 034DC          PUSHAB  SYS$OUTPUT_NAME
                                 0B   DD 034E2          PUSHL   #11
                                 01   DD 034E4          PUSHL   #1
                     00000000G   EF   9F 034E6          PUSHAB  FDL_DEST
        00000000G  EF            07   FB 034EC          CALLS   #7,PAS$OPEN2
                     00000000G   EF   9F 034F3          PUSHAB  FDL_DEST                                     ; 1504
        00000000G  EF            01   FB 034F9          CALLS   #1,PAS$REWRITE2
        00000000G  EF            00   FB 03500          CALLS   #0,SHOW_ALL_PRIMARIES                        ; 1506
                     00000000G   EF   9F 03507          PUSHAB  FDL_DEST                                     ; 1508
        00000000G  EF            01   FB 0350D          CALLS   #1,PAS$CLOSE2
                                00V   11 03514          BRB     165$
```

```
                        00000000G  EF      9F 03516 163$:    PUSHAB  SHIFT                                     ; 1514
                                   04      DD 0351C          PUSHL   #4
                        00000000G  EF      9F 0351E          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 03524          CALLS   #3,PAS$WRITE_STRING
                        FFFFA97D   EF      9F 0352B          PUSHAB  C.ALQ
                                   34      DD 03531          PUSHL   #52
                        00000000G  EF      9F 03533          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 03539          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF      9F 03540          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          01      FB 03546          CALLS   #1,PAS$WRITELN2
                        00000000G  EF      9F 0354D 165$:    PUSHAB  SHIFT                                     ; 1522
                                   04      DD 03553          PUSHL   #4
                        00000000G  EF      9F 03555          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 0355B          CALLS   #3,PAS$WRITE_STRING
                        FFFFA97A   EF      9F 03562          PUSHAB  C.ALR
                                   21      DD 03568          PUSHL   #33
                        00000000G  EF      9F 0356A          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 03570          CALLS   #3,PAS$WRITE_STRING
                     50 00000000G  EF      9A 03577          MOVZBL  DEFAULT_PRIMARY,R0
                     7E 00000000GEF40      9A 0357E          MOVZBL  PRIMARY_WIDTH[R0],-(SP)
                     7E 00000000G  EF      9A 03586          MOVZBL  DEFAULT_PRIMARY,-(SP)
                        FFFFA973   EF      9F 0358D          PUSHAB  C.ALS
                        00000000G  EF      9F 03593          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          04      FB 03599          CALLS   #4,PAS$WRITE_ENUMERATED
                     50 00000000G  EF      9A 035A0          MOVZBL  DEFAULT_PRIMARY,R0                        ; 1525
                     10                    50 D1 035A7       CMPL    R0,#16
                                   00V     1E 035AA          BGEQU   167$
        00VFFFFAA2A    EF          50      E1 035AC          BBC     R0,C.ALT,167$
                                   01      DD 035B4          PUSHL   #1                                        ; 1527
                                   20      DD 035B6          PUSHL   #32
                        00000000G  EF      9F 035B8          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 035BE          CALLS   #3,PAS$WRITE_CHAR
                        00000000G  EF      9F 035C5          PUSHAB  DEFAULT_PRINOM
            00000000G  EF          01      FB 035CB          CALLS   #1,NUM_[EN
                                   50      DD 035D2          PUSHL   R0
                        00000000G  EF      DD 035D4          PUSHL   DEFAULT_PRINUM
                        00000000G  EF      9F 035DA          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 035E0          CALLS   #3,PAS$WRITE_INTEGER
                        FFFFA9F5   EF      9F 035E7 167$:    PUSHAB  C.ALU                                     ; 1529
                                   04      DD 035ED          PUSHL   #4
                        00000000G  EF      9F 035EF          PUSHAB  PAS$FV_OUTPUT
            00000000G  EF          03      FB 035F5          CALLS   #3,PAS$WRITE_STRING
                                   00V     11 035FC          BRB     169$
                                              035FE 168$:
                                           04 035FE 169$:    RET                                       ; 1539

; Routine Size: 13823 bytes,    Routine Base: $CODE + 049C2

                                              00000 SPREAD_LOW_HIGH:                                     ; 1585
                                         0000 00000          .WORD   ^M<>
                     50         04   BC    D0 00002          MOVL    @4(R12),LO_LIM
                     5C         08   BC    D0 00006          MOVL    @8(R12),HI_LIM
         51 00000010G  EF 00000014G  EF    C3 0000A          SUBL3   IDATA+20,IDATA+16,R1                      ; 1592
                       05                  51 D1 00016       CMPL    R1,#5
                                   00V     18 00019          BGEQ    8$
                     50 00000014G  EF      D1 0001B 2$:      CMPL    IDATA+20,LO_LIM                           ; 1598
                                   00V     15 00022          BLEQ    4$
```

```
                                          00000014G  EF   D7 00024         DECL    IDATA+20                                   ; 1600
                                       5C 00000010G  EF   D1 0002A 4$:     CMPL    IDATA+16,HI_LIM                            ; 1602
                                                     00V  18 00031         BGEQ    6$
                                          00000010G  EF   D6 00033         INCL    IDATA+16                                   ; 1604
                         51 00000010G  EF 00000014G  EF   C3 00039 6$:     SUBL3   IDATA+20,IDATA+16,R1
                                       04            51   D1 00045         CMPL    R1,#4
                                                     D1   15 00048         BLEQ    2$
                                                          04 0004A 8$:     RET                                                ; 1610

; Routine Size: 75 bytes,    Routine Base: $CODE + 07FC1

                                                             00000 AUTO_SCALE:                                                ; 1656
                                                        0004 00000         .WORD   ^M<R2>
                                       50       04   BC   D0 00002         MOVL    @4(R12),LOW_LIMIT
                                       5C       08   BC   D0 00006         MOVL    @8(R12),HIGH_LIMIT
                            00000000G  EF 00000010G  EF   D0 0000A         MOVL    IDATA+16,TEMP_INT2                         ; 1664
                         51 00000010G  EF 00000014G  EF   C3 00015         SUBL3   IDATA+20,IDATA+16,R1                       ; 1665
                                       51            51   4E 00021         CVTLF   R1,R1
              00000000G  EF            51            24   47 00024         DIVF3   #^F12.0,R1,TEMP_REAL
                            00000018G  EF 00000000G  EF   4A 0002C         CVTFL   TEMP_REAL,IDATA+24                         ; 1667
                         51 00000010G  EF 00000014G  EF   C3 00037         SUBL3   IDATA+20,IDATA+16,R1                       ; 1669
           51            51            00            00   7A 00043         EMUL    #0,#0,R1,R1
           51            51            51            0C   7B 00048         EDIV    #12,R1,R1,R1
                                                     51   D5 0004D         TSTL    R1
                                                     00V  18 0004F         BGEQ    1$
                                       51            0C   C0 00051         ADDL2   #12,R1
                                                     51   D5 00054 1$:     TSTL    R1
                                                     00V  15 00056         BLEQ    4$
                                          00000018G  EF   D6 00058         INCL    IDATA+24                                   ; 1671
                         51 00000018G  EF            0C   C5 0005E 4$:     MULL3   #12,IDATA+24,R1                            ; 1678
              00000010G  EF 00000014G  EF            51   C1 00066         ADDL3   R1,IDATA+20,IDATA+16
                                                     00V  11 00072         BRB     6$                                         ; 1684
                                          00000014G  EF   D7 00074 5$:     DECL    IDATA+20                                   ; 1688
                                          00000010G  EF   D7 0007A         DECL    IDATA+16                                   ; 1689
                                       5C 00000010G  EF   D1 00080 6$:     CMPL    IDATA+16,HIGH_LIMIT
                                                     EB   14 00087         BGTR    5$
                                                     00V  11 00089         BRB     9$                                         ; 1696
                                          00000014G  EF   D6 0008B 8$:     INCL    IDATA+20                                   ; 1700
                                          00000010G  EF   D6 00091         INCL    IDATA+16                                   ; 1701
                                       50 00000014G  EF   D1 00097 9$:     CMPL    IDATA+20,LOW_LIMIT
                                                     EB   19 0009E         BLSS    8$
                                                     00V  19 000A0         BLSS    12$                                        ; 1708
                                       5C 00000010G  EF   D1 000A2         CMPL    IDATA+16,HIGH_LIMIT
                                                     00V  15 000A9         BLEQ    13$
                                          00000018G  EF   D7 000AB 12$:    DECL    IDATA+24                                   ; 1710
                                       50 00000014G  EF   D1 000B1 13$:    CMPL    IDATA+20,LOW_LIMIT
                                                     A4   19 000B8         BLSS    4$
                                       5C 00000010G  EF   D1 000BA         CMPL    IDATA+16,HIGH_LIMIT
                                                     9B   14 000C1         BGTR    4$
                            00000000G  EF 00000010G  EF   D1 000C3         CMPL    IDATA+16,TEMP_INT2                         ; 1717
                                                     00V  18 000CE         BGEQ    17$
                         50 00000000G  EF 00000010G  EF   C3 000D0         SUBL3   IDATA+16,TEMP_INT2,R0                      ; 1721
                            00000014G  EF            50   C0 000DC         ADDL2   R0,IDATA+20
                         50 00000000G  EF 00000010G  EF   C3 000E3         SUBL3   IDATA+16,TEMP_INT2,R0                      ; 1723
                            00000010G  EF            50   C0 000EF         ADDL2   R0,IDATA+16
                                                          04 000F6 17$:    RET                                                ; 1728
```

```
; Routine Size: 247 bytes,    Routine Base: $CODE + 0800C

                                  00000 ALT_SOURCE:                                              ; 1780
                             00FC 00000            .WORD    ^M<R2,R3,R4,R5,R6,R7>
             5E          14    C2 00002            SUBL2    #20,SP
             52     04   BC    90 00005            MOVB     @4(R12),OBJ_TYP
             53     08   BC    90 00009            MOVB     @8(R12),PRIM
             54     0C   BC    D0 0000D            MOVL     @12(R12),PRIMNUM
             55     10   BC    90 00011            MOVB     @16(R12),SECO
             56     14   BC    D0 00015            MOVL     @20(R12),SECONUM
             5C     18   BC    90 00019            MOVB     @24(R12),AN_FLAG
             2E 00000000G EF    D1 0001D            CMPL     QTAB_OFFSET,#46                 ; 1794
                         00V   12 00024            BNEQ     2$
                00000000G EF    94 00026            CLRB     GLOBAL_SET                      ; 1796
 00V00000000G   EF       00    E0 0002C 2$:        BBS      #0,VISIBLE_QUESTION,4$          ; 1803
 00V00000000G   EF       00    E0 00034            BBS      #0,OPTIMIZING,6$
    00000100    8F 00000000G EF D1 0003C 4$:        CMPL     QTAB_OFFSET,#256
                         00V   1E 00047            BGEQU    5$
 00VFFFFA850    EF 00000000G EF E0 00049            BBS      QTAB_OFFSET,C.ALV,6$
                57       01    90 00055 5$:        MOVB     #1,ALT_SOURCE                   ; 1812
                      0000V    31 00058            BRW      32$
 03 00000000G   EF       00    E0 0005B 6$:        BBS      #0,OPTIMIZING,.+3               ; 1816
                      0000V    31 00063            BRW      32$
             00V         5C    E9 00066            BLBC     AN_FLAG,9$                      ; 1823
    00000000G   EF       00    FB 00069            CALLS    #0,POINT_AT_ANALYSIS            ; 1825
          FC    AD       56    D0 00070 9$:        MOVL     SECONUM,-4(FP)                  ; 1827
                    FC   AD    9F 00074            PUSHAB   -4(FP)
          F8    AD       55    90 00077            MOVB     SECO,-8(FP)
                    F8   AD    9F 0007B            PUSHAB   -8(FP)
          F4    AD       54    D0 0007E            MOVL     PRIMNUM,-12(FP)
                    F4   AD    9F 00082            PUSHAB   -12(FP)
          F0    AD       53    90 00085            MOVB     PRIM,-16(FP)
                    F0   AD    9F 00089            PUSHAB   -16(FP)
          EC    AD       52    90 0008C            MOVB     OBJ_TYP,-20(FP)
                    EC   AD    9F 00090            PUSHAB   -20(FP)
    00000000G   EF       05    FB 00093            CALLS    #5,FIND_OBJECT
                03       50    E8 0009A            BLBS     R0,.+3
                      0000V    31 0009D            BRW      24$
                         57    94 000A0            CLRB     ALT_SOURCE                      ; 1831
 35             0B 00000000G EF CF 000A2            CASEL    QTAB_OFFSET,#11,#53             ; 1833
                      0000V       000AA            .DISPL   11$
                      0000V       000AC            .DISPL   11$
                      0000V       000AE            .DISPL   11$
                      006C        000B0            .DISPL   108
                      006C        000B2            .DISPL   108
                      0000V       000B4            .DISPL   13$
                      0000V       000B6            .DISPL   13$
                      0000V       000B8            .DISPL   13$
                      0000V       000BA            .DISPL   18$
                      0000V       000BC            .DISPL   18$
                      0000V       000BE            .DISPL   18$
                      006C        000C0            .DISPL   108
                      006C        000C2            .DISPL   108
                      006C        000C4            .DISPL   108
                      006C        000C6            .DISPL   108
                      006C        000C8            .DISPL   108
                      006C        000CA            .DISPL   108
                      0000V     000CC         .DISPL  18$
                      006C      000CE         .DISPL  108
                      0000V     000D0         .DISPL  18$
                      006C      000D2         .DISPL  108
                      0000V     000D4         .DISPL  13$
                      006C      000D6         .DISPL  108
                      006C      000D8         .DISPL  108
                      006C      000DA         .DISPL  108
                      006C      000DC         .DISPL  108
                      006C      000DE         .DISPL  108
                      006C      000E0         .DISPL  108
                      0000V     000E2         .DISPL  14$
                      0000V     000E4         .DISPL  13$
                      006C      000E6         .DISPL  108
                      006C      000E8         .DISPL  108
                      0000V     000EA         .DISPL  13$
                      006C      000EC         .DISPL  108
                      006C      000EE         .DISPL  108
                      0000V     000F0         .DISPL  17$
                      006C      000F2         .DISPL  108
                      006C      000F4         .DISPL  108
                      006C      000F6         .DISPL  108
                      006C      000F8         .DISPL  108
                      0000V     000FA         .DISPL  15$
                      006C      000FC         .DISPL  108
                      006C      000FE         .DISPL  108
                      0000V     00100         .DISPL  16$
                      0000V     00102         .DISPL  14$
                      006C      00104         .DISPL  108
                      0000V     00106         .DISPL  13$
                      0000V     00108         .DISPL  13$
                      0000V     0010A         .DISPL  13$
                      006C      0010C         .DISPL  108
                      006C      0010E         .DISPL  108
                      0000V     00110         .DISPL  13$
                      006C      00112         .DISPL  108
                      0000V     00114         .DISPL  14$
                      0000V  31 00116         BRW     22$
           50 00000000G  EF  D0 00119 11$:    MOVL    QTAB_OFFSET,R0                                ; 1841
              FFFFFFB0GEF40  7F 00120         PUSHAQ  SDATA-80[R0]
           50 00000000G  EF  D0 00127         MOVL    DEF_CURRENT,R0
                    11   A0  9F 0012E         PUSHAB  17(R0)
00000000G  EF            02  FB 00131         CALLS   #2,LIB$SCOPY_DXDX
           50 00000000G  EF  D0 00138         MOVL    QTAB_OFFSET,R0                                ; 1842
FFFFFFF9GEF40            01  90 0013F         MOVB    #1,BDATA-7[R0]
                      0000V  31 00147         BRW     30$
           50 00000000G  EF  D0 0014A 13$:    MOVL    QTAB_OFFSET,R0                                ; 1859
           52 00000000G  EF  D0 00151         MOVL    DEF_CURRENT,R2
00000000GEF40       27   A2  D0 00158         MOVL    39(R2),IDATA[R0]
           50 00000000G  EF  D0 00161         MOVL    QTAB_OFFSET,R0                                ; 1860
00000000G  EF 00000000GEF40  D0 00168         MOVL    IDATA[R0],INPUT_VALUE
                      0000V  31 00174         BRW     30$
           50 00000000G  EF  D0 00177 14$:    MOVL    QTAB_OFFSET,R0                                ; 1870
           52 00000000G  EF  D0 0017E         MOVL    DEF_CURRENT,R2
00000000GEF40       23   A2  D0 00185         MOVL    35(R2),IDATA[R0]
           50 00000000G  EF  D0 0018E         MOVL    QTAB_OFFSET,R0                                ; 1871
00000000G  EF 00000000GEF40  D0 00195         MOVL    IDATA[R0],INPUT_VALUE
```

```
                          0000V  31 001A1       BRW     30$
              50 00000000G   EF  D0 001A4 15$:  MOVL    QTAB_OFFSET,R0                          ; 1879
              52 00000000G   EF  D0 001AB       MOVL    DEF_CURRENT,R2
   00000000GEF40        27   A2  D0 001B2       MOVL    39(R2),IDATA[R0]
              50 00000000G   EF  D0 001BB       MOVL    QTAB_OFFSET,R0                          ; 1880
   00000000G  EF  00000000GEF40  D0 001C2       MOVL    IDATA[R0],INPUT_VALUE
              50 00000000G   EF  D0 001CE       MOVL    SEGMENT_NUMBER,R0                       ; 1881
   00000000GEF40 00000000G   EF  D0 001D5       MOVL    INPUT_VALUE,SEGMENT_POSITION[R0]
                          0000V  31 001E1       BRW     30$
              50 00000000G   EF  D0 001E4 16$:  MOVL    QTAB_OFFSET,R0                          ; 1889
              52 00000000G   EF  D0 001EB       MOVL    DEF_CURRENT,R2
   00000000GEF40        27   A2  D0 001F2       MOVL    39(R2),IDATA[R0]
              50 00000000G   EF  D0 001FB       MOVL    QTAB_OFFSET,R0                          ; 1890
   00000000G  EF  00000000GEF40  D0 00202       MOVL    IDATA[R0],INPUT_VALUE
              50 00000000G   EF  D0 0020E       MOVL    SEGMENT_NUMBER,R0                       ; 1891
   00000000GEF40 00000000G   EF  D0 00215       MOVL    INPUT_VALUE,SEGMENT_LENGTH[R0]
                          0000V  31 00221       BRW     30$
              50 00000000G   EF  D0 00224 17$:  MOVL    QTAB_OFFSET,R0                          ; 1899
              52 00000000G   EF  D0 0022B       MOVL    DEF_CURRENT,R2
   00000000GEF40        27   A2  D0 00232       MOVL    39(R2),IDATA[R0]
              50 00000000G   EF  D0 0023B       MOVL    QTAB_OFFSET,R0                          ; 1900
   00000000G  EF  00000000GEF40  D0 00242       MOVL    IDATA[R0],INPUT_VALUE
   00000000G  EF             01  90 0024E       MOVB    #1,GLOBAL_SET                           ; 1901
                          0000V  31 00255       BRW     30$
              50 00000000G   EF  D0 00258 18$:  MOVL    QTAB_OFFSET,R0                          ; 1913
              52 00000000G   EF  D0 0025F       MOVL    DEF_CURRENT,R2
   FFFFFFF9GEF40        2B   A2  90 00266       MOVB    43(R2),BDATA-7[R0]
              50 00000000G   EF  D0 0026F       MOVL    DEF_CURRENT,R0                          ; 1915
00V      2B   A0             00  E1 00276       BBC     #0,43(R0),20$
   00000000G  EF             01  D0 0027B       MOVL    #1,INPUT_VALUE                          ; 1917
                            00V  11 00282       BRB     30$
                 00000000G   EF  D4 00284 20$:  CLRL    INPUT_VALUE                             ; 1921
                            00V  11 0028A       BRB     30$
                            00V  11 0028C 22$:  BRB     30$
              57             01  90 0028E 24$:  MOVB    #1,ALT_SOURCE                           ; 1940
00V00000000G  EF             00  E1 00291       BBC     #0,AUTO_TUNE,27$                        ; 1946
   00000100   8F 00000000G   EF  D1 00299       CMPL    QTAB_OFFSET,#256
                            00V  1E 002A4       BGEQU   27$
00VFFFFA613   EF 00000000G   EF  E1 002A6       BBC     QTAB_OFFSET,C.ALW,27$
                             00  DD 002B2       PUSHL   #0                                      ; 1953
                             00  DD 002B4       PUSHL   #0
                             00  DD 002B6       PUSHL   #0
                 00B3801C    8F  DD 002B8       PUSHL   #11763740
   00000000G  EF             04  FB 002BE       CALLS   #4,LIB$STOP
   00000100   8F 00000000G   EF  D1 002C5 27$:  CMPL    QTAB_OFFSET,#256                        ; 1955
                            00V  1E 002D0       BGEQU   30$
00VFFFFA607   EF 00000000G   EF  E1 002D2       BBC     QTAB_OFFSET,C.ALX,30$
                             57  94 002DE       CLRB    ALT_SOURCE                              ; 1960
              50 00000000G   EF  D0 002E0       MOVL    QTAB_OFFSET,R0                          ; 1961
                  FFFFFFE0GEF40  D4 002E7       CLRF    RDATA-32[R0]
   00000000G  EF             00  FB 002EE 30$:  CALLS   #0,POINT_AT_DEFINITION                  ; 1967
              50             57  90 002F5 32$:  MOVB    ALT_SOURCE,R0                           ; 1971
                                 04 002F8       RET

; Routine Size: 761 bytes,    Routine Base: $CODE + 08103

                                    00000 PRE_PROCESS:                                          ; 2016
                                    007C 00000          .WORD   ^M<R2,R3,R4,R5,R6>
                    5C          01    90 00002          MOVB    #1,PRE_PROCESS                                  ; 2028
      3B            0B 00000000G EF    CF 00005          CASEL   QTAB_OFFSET,#11,#59                            ; 2030
                           0000V        0000D          .DISPL  129$
                           0000V        0000F          .DISPL  132$
                           0000V        00011          .DISPL  135$
                           0000V        00013          .DISPL  138$
                           0000V        00015          .DISPL  138$
                           0000V        00017          .DISPL  17$
                           0000V        00019          .DISPL  21$
                           0000V        0001B          .DISPL  25$
                           0000V        0001D          .DISPL  64$
                           0000V        0001F          .DISPL  69$
                           0000V        00021          .DISPL  75$
                           0000V        00023          .DISPL  141$
                           0000V        00025          .DISPL  103$
                           0000V        00027          .DISPL  125$
                           0078         00029          .DISPL  120
                           0000V        0002B          .DISPL  81$
                           0000V        0002D          .DISPL  85$
                           0000V        0002F          .DISPL  47$
                           0000V        00031          .DISPL  39$
                           0000V        00033          .DISPL  51$
                           0078         00035          .DISPL  120
                           0000V        00037          .DISPL  56$
                           0000V        00039          .DISPL  183$
                           0000V        0003B          .DISPL  110$
                           0078         0003D          .DISPL  120
                           0000V        0003F          .DISPL  8$
                           0000V        00041          .DISPL  147$
                           0078         00043          .DISPL  120
                           0000V        00045          .DISPL  186$
                           0000V        00047          .DISPL  191$
                           0078         00049          .DISPL  120
                           0000V        0004B          .DISPL  229$
                           0000V        0004D          .DISPL  196$
                           0078         0004F          .DISPL  120
                           0078         00051          .DISPL  120
                           0000V        00053          .DISPL  91$
                           0078         00055          .DISPL  120
                           0000V        00057          .DISPL  92$
                           0078         00059          .DISPL  120
                           0000V        0005B          .DISPL  8$
                           0000V        0005D          .DISPL  29$
                           0000V        0005F          .DISPL  12$
                           0078         00061          .DISPL  120
                           0000V        00063          .DISPL  163$
                           0000V        00065          .DISPL  195$
                           0000V        00067          .DISPL  115$
                           0000V        00069          .DISPL  200$
                           0000V        0006B          .DISPL  205$
                           0000V        0006D          .DISPL  80$
                           0000V        0006F          .DISPL  55$
                           0078         00071          .DISPL  120
                           0000V        00073          .DISPL  178$
                           0078         00075          .DISPL  120
                           0000V        00077          .DISPL  223$
```

```
                                                    0078    00079         .DISPL  120
                                                    0078    0007B         .DISPL  120
                                                    0078    0007D         .DISPL  120
                                                   0000V    0007F         .DISPL  204$
                                                    0078    00081         .DISPL  120
                                                   0000V    00083         .DISPL  1$
                                                   0000V 31 00085         BRW     288$
                                                      50 94 00088 1$:     CLRB    R0                                        ; 2034
                         51 00000000G  EF             19 C5 0008A         MULL3   #25,QTAB_OFFSET,R1
                                       51 FFFFFFEF2GEF41 9E 00092         MOVAB   QTAB-270[R1],R1
                            00000100   8F             61 D1 0009A         CMPL    (R1),#256
                                                     00V 1E 000A1         BGEQU   3$
                         00VFFFFA561   EF             61 E1 000A3         BBC     (R1),C.ALY,3$
                                                      50 96 000AB         INCB    R0
                                                      52 94 000AD 3$:     CLRB    R2
                                          00000084G   EF D5 000AF         TSTL    IDATA+132
                                                     00V 13 000B5         BEQL    5$
                                                      52 96 000B7         INCB    R2
                                       52             50 8A 000B9 5$:     BICB2   R0,R2
                                       00V            52 E9 000BC         BLBC    R2,7$
                                       61             05 D0 000BF         MOVL    #5,(R1)                                   ; 2041
                                                   0000V 31 000C2 7$:     BRW     289$
                                          00000014G   EF D5 000C5 8$:     TSTL    IDATA+20                                  ; 2046
                                                     00V 12 000CB         BNEQ    10$
                            00000000G  EF 000186A0    8F D0 000CD         MOVL    #100000,DEF                               ; 2048
                                                   0000V 31 000D8         BRW     289$
              00000000G  EF 00000014G  EF             32 C5 000DB 10$:    MULL3   #50,IDATA+20,DEF                          ; 2052
                                                   0000V 31 000E7         BRW     289$
                                          000000E4G   EF D5 000EA 12$:    TSTL    IDATA+228                                 ; 2061
                                                     00V 13 000F0         BEQL    14$
000000E4G   EF      FF   8F            08             00 ED 000F2         CMPZV   #0,#8,#^XFF,IDATA+228
                                                     00V 18 000FC         BGEQ    15$
                            00000000G  EF      FF     8F 9A 000FE 14$:    MOVZBL  #255,MAX_KEY_SIZE                         ; 2067
                                                     00V 11 00106         BRB     16$
                            00000000G  EF 000000E4G   EF D0 00108 15$:    MOVL    IDATA+228,MAX_KEY_SIZE                    ; 2071
                         51 00000000G  EF             19 C5 00113 16$:    MULL3   #25,QTAB_OFFSET,RT                        ; 2073
              FFFFFEFAGEF41 00000000G  EF             04 28 0011B         MOVC3   #4,MAX_KEY_SIZE,QTAB-262[R1]
                         50 00000000G  EF             19 C5 00128         MULL3   #25,QTAB_OFFSET,R0                        ; 2074
              FFFFFF13GEF40 00000000G  EF             04 28 00130         MOVC3   #4,MAX_KEY_SIZE,QTAB-237[R0]
                         50 00000000G  EF             19 C5 0013D         MULL3   #25,QTAB_OFFSET,R0                        ; 2075
              FFFFFF0BGEF40 00000000G  EF             04 28 00145         MOVC3   #4,MAX_KEY_SIZE,QTAB-245[R0]
                                                   0000V 31 00152         BRW     289$
                                                      5C 94 00155 17$:    CLRB    PRE_PROCESS                               ; 2083
                                       50 00000000G   EF D0 00157         MOVL    QTAB_OFFSET,R0                            ; 2084
                                           00000000GEF40 D4 0015E         CLRL    IDATA[R0]
                         03 00000033G  EF             00 E0 00165         BBS     #0,VDATA+51,.+3                           ; 2086
                                                   0000V 31 0016D         BRW     289$
                                       02 000000F8G   EF D1 00170         CMPL    IDATA+248,#2
                                                      03 14 00177         BGTR    .+3
                                                   0000V 31 00179         BRW     289$
                                                01    8F 9F 0017C         PUSHAB  #1                                        ; 2092
                                          00000000    8F DF 0017F         PUSHAL  #0
                                                0B    8F 9F 00185         PUSHAB  #11
                                          00000084G   EF 9F 00188         PUSHAB  IDATA+132
                                                04    8F 9F 0018E         PUSHAB  #4
                                                01    8F 9F 00191         PUSHAB  #1
                                8103   CF             06 FB 00194         CALLS   #6,ALT_SOURCE
```

```
                     56             50  90 00199          MOVB    R0,RESULT
                                 0000V  31 0019C          BRW     289$
                                    5C  94 0019F   21$:   CLRB    PRE_PROCESS                               ; 2101
                  50 00000000G      EF  D0 001A1          MOVL    QTAB_OFFSET,R0                            ; 2102
                     00000000GEF40      D4 001A8          CLRL    IDATA[R0]
           03 00000033G    EF       00  E0 001AF          BBS     #0,VDATA+51,.+3                           ; 2104
                                 0000V  31 001B7          BRW     289$
                  02 000000F8G      EF  D1 001BA          CMPL    IDATA+248,#2
                                    03  14 001C1          BGTR    .+3
                                 0000V  31 001C3          BRW     289$
                            01      8F  9F 001C6          PUSHAB  #1                                        ; 2110
                      00000000      8F  DF 001C9          PUSHAL  #0
                            0C      8F  9F 001CF          PUSHAB  #12
                     00000084G      EF  9F 001D2          PUSHAB  IDATA+132
                            04      8F  9F 001D8          PUSHAB  #4
                            01      8F  9F 001DB          PUSHAB  #1
                8103       CF       06  FB 001DE          CALLS   #6,ALT_SOURCE
                           56       50  90 001E3          MOVB    R0,RESULT
                                 0000V  31 001E6          BRW     289$
                                    5C  94 001E9   25$:   CLRB    PRE_PROCESS                               ; 2119
                  50 00000000G      EF  D0 001EB          MOVL    QTAB_OFFSET,R0                            ; 2120
                     00000000GEF40      D4 001F2          CLRL    IDATA[R0]
           03 00000033G    EF       00  E0 001F9          BBS     #0,VDATA+51,.+3                           ; 2122
                                 0000V  31 00201          BRW     289$
                  02 000000F8G      EF  D1 00204          CMPL    IDATA+248,#2
                                    03  14 0020B          BGTR    .+3
                                 0000V  31 0020D          BRW     289$
                            01      8F  9F 00210          PUSHAB  #1                                        ; 2128
                      00000000      8F  DF 00213          PUSHAL  #0
                            12      8F  9F 00219          PUSHAB  #18
                     00000084G      EF  9F 0021C          PUSHAB  IDATA+132
                            04      8F  9F 00222          PUSHAB  #4
                            01      8F  9F 00225          PUSHAB  #1
                8103       CF       06  FB 00228          CALLS   #6,ALT_SOURCE
                           56       50  90 0022D          MOVB    R0,RESULT
                                 0000V  31 00230          BRW     289$
        00V00000013G       EF       00  E1 00233   29$:   BBC     #0,BDATA+19,34$                           ; 2140
                                    50  D4 0023B          CLRL    TEMP_KEY_SIZE                             ; 2144
                                    51  D4 0023D          CLRL    R1                                        ; 2146
           00000000G       EF       51  D0 0023F   31$:   MOVL    R1,TEMP_INT2
                           52 00000000G      EF  D0 00246 MOVL    TEMP_INT2,R2                              ; 2150
        00V00000000GEF42            00  E1 0024D          BBC     #0,SEGMENT_WANTED[R2],33$
                           52 00000000G      EF  D0 00256 MOVL    TEMP_INT2,R2                              ; 2152
                           50 00000000GEF42     C0 0025D  ADDL2   SEGMENT_LENGTH[R2],TEMP_KEY_SIZE
        D6                 51       07  F3 00265   33$:   AOBLEQ  #7,R1,31$
                                   00V  11 00269          BRB     35$
                  50 000000D8G      EF  D0 0026B   34$:   MOVL    IDATA+216,TEMP_KEY_SIZE                   ; 2161
                     000000E4G      EF  D5 00272   35$:   TSTL    IDATA+228                                 ; 2163
                                   00V  12 00278          BNEQ    37$
00000000G   EF 00000000G   EF       50  C3 0027A          SUBL3   TEMP_KEY_SIZE,CUR_MAX_REC,MAX_KEY_POSITION ; 2165
                                   00V  11 00286          BRB     38$
00000000G   EF 000000E4G   EF       50  C3 00288   37$:   SUBL3   TEMP_KEY_SIZE,IDATA+228,MAX_KEY_POSITION  ; 2169
            50 00000000G   EF       19  C5 00294   38$:   MULL3   #25,QTAB_OFFSET,R0                        ; 2173
FFFFFEFAGEF40 00000000G    EF       04  28 0029C          MOVC3   #4,MAX_KEY_POSITION,QTAB-262[R0]
                            00      8F  9F 002A9          PUSHAB  #0                                        ; 2175
                     00000000G      EF  9F 002AC          PUSHAB  SEGMENT_NUMBER
                            86      8F  9F 002B2          PUSHAB  #-122
                  00000084G  EF  9F 002B5          PUSHAB  IDATA+132
                         0B  8F  9F 002BB          PUSHAB  #11
                         01  8F  9F 002BE          PUSHAB  #1
        8103   CF            06  FB 002C1          CALLS   #6,ALT_SOURCE
               5C            50  90 002C6          MOVB    R0,PRE_PROCESS
                          0000V  31 002C9          BRW     289$
                  00000084G  EF  D5 002CC 39$:     TSTL    IDATA+132                                ; 2182
                            00V  13 002D2          BEQL    41$
 00v00000012G  EF            00  E0 002D4          BBS     #0,VDATA+18,45$
                  00000088G  EF  D5 002DC 41$:     TSTL    IDATA+136                                ; 2188
                            00V  15 002E2          BLEQ    43$
               5C            01  90 002E4          MOVB    #1,PRE_PROCESS                           ; 2190
                          0000V  31 002E7          BRW     289$
               50 00000000G  EF  D0 002EA 43$:     MOVL    QTAB_OFFSET,R0                           ; 2196
    FFFFFFF9GEF40            01  90 002F1          MOVB    #1,BDATA-7[R0]
                             5C  94 002F9          CLRB    PRE_PROCESS                              ; 2197
                          0000V  31 002FB          BRW     289$
                             5C  94 002FE 45$:     CLRB    PRE_PROCESS                              ; 2203
                          0000V  31 00300          BRW     289$
                  00000084G  EF  D5 00303 47$:     TSTL    IDATA+132                                ; 2207
                            00V  13 00309          BEQL    49$
                         00  8F  9F 0030B          PUSHAB  #0                                       ; 2209
                   00000000  8F  DF 0030E          PUSHAL  #0
                         77  8F  9F 00314          PUSHAB  #119
                  00000084G  EF  9F 00317          PUSHAB  IDATA+132
                         0B  8F  9F 0031D          PUSHAB  #11
                         01  8F  9F 00320          PUSHAB  #1
        8103   CF            06  FB 00323          CALLS   #6,ALT_SOURCE
               5C            50  90 00328          MOVB    R0,PRE_PROCESS
                          0000V  31 0032B          BRW     289$
                             5C  94 0032E 49$:     CLRB    PRE_PROCESS                              ; 2216
               50 00000000G  EF  D0 00330          MOVL    QTAB_OFFSET,R0                           ; 2217
                  FFFFFFF9GEF40  94 00337          CLRB    BDATA-7[R0]
                          0000V  31 0033E          BRW     289$
 50 00000000G  EF            19  C5 00341 51$:     MULL3   #25,QTAB_OFFSET,R0                       ; 2225
               50 FFFFFEF2GEF40  9E 00349          MOVAB   QTAB-270[R0],R0
                  00000084G  EF  D5 00351          TSTL    IDATA+132
                            00V  12 00357          BNEQ    53$
                             60  D4 00359          CLRL    (R0)                                     ; 2227
                            00V  11 0035B          BRB     54$
               60            01  D0 0035D 53$:     MOVL    #1,(R0)                                  ; 2231
                         00  8F  9F 00360 54$:     PUSHAB  #0                                       ; 2233
                   00000000  8F  DF 00363          PUSHAL  #0
                         7C  8F  9F 00369          PUSHAB  #124
                  00000084G  EF  9F 0036C          PUSHAB  IDATA+132
                         0B  8F  9F 00372          PUSHAB  #11
                         01  8F  9F 00375          PUSHAB  #1
        8103   CF            06  FB 00378          CALLS   #6,ALT_SOURCE
               5C            50  90 0037D          MOVB    R0,PRE_PROCESS
                          0000V  31 00380          BRW     289$
               50 00000000G  EF  92 00383 55$:     MCOMB   NUMBER_KEYS_SET,R0                       ; 2240
 5C 00000000G  EF            50  89 0038A          BISB3   R0,VISIBLE_QUESTION,PRE_PROCESS
                          0000V  31 00392          BRW     289$
 00v00000000G  EF            00  E1 00395 56$:     BBC     #0,OPTIMIZING,58$                        ; 2254
                         01  8F  9F 0039D          PUSHAB  #1                                       ; 2256
                   00000000  8F  DF 003A0          PUSHAL  #0
                         4B  8F  9F 003A6          PUSHAB  #75
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                    00000000   8F    DF 003A9          PUSHAL   #0
                          08   8F    9F 003AF          PUSHAB   #8
                          01   8F    9F 003B2          PUSHAB   #1
           8103   CF               06    FB 003B5          CALLS    #6,ALT_SOURCE
                  5C               50    90 003BA          MOVB     R0,PRE_PROCESS
                                  00V    11 003BD          BRB      63$
                    00000084G   EF    D5 003BF  58$:   TSTL     IDATA+132                            ; 2260
                                  00V    13 003C5          BEQL     60$
      00V00000017G   EF              00    E0 003C7          BBS      #0,VDATA+23,61$
                  5C               01    90 003CF  60$:   MOVB     #1,PRE_PROCESS
                                  00V    11 003D2          BRB      62$
                                   5C    94 003D4  61$:   CLRB     PRE_PROCESS
                                            003D6  62$:
                               0000V    31 003D6  63$:   BRW      289$
                                   5C    94 003D9  64$:   CLRB     PRE_PROCESS                          ; 2272
                  50 00000000G   EF    D0 003DB          MOVL     QTAB_OFFSET,R0                       ; 2273
                     FFFFFFF9GEF40    94 003E2          CLRB     BDATA-7[R0]
      00V00000033G   EF              00    E1 003E9          BBC      #0,VDATA+51,68$                      ; 2275
                  02 000000F8G   EF    D1 003F1          CMPL     IDATA+248,#2
                                  00V    15 003F8          BLEQ     68$
                  21 000000DCG   EF    D1 003FA          CMPL     IDATA+220,#33
                                  00V    12 00401          BNEQ     68$
                          00   8F    9F 00403          PUSHAB   #0                                   ; 2283
                    00000000   8F    DF 00406          PUSHAL   #0
                          7A   8F    9F 0040C          PUSHAB   #122
                    00000084G   EF    9F 0040F          PUSHAB   IDATA+132
                          0B   8F    9F 00415          PUSHAB   #11
                          01   8F    9F 00418          PUSHAB   #1
           8103   CF               06    FB 0041B          CALLS    #6,ALT_SOURCE
                  5C               50    90 00420          MOVB     R0,PRE_PROCESS
                               0000V    31 00423  68$:   BRW      289$
                                   5C    94 00426  69$:   CLRB     PRE_PROCESS                          ; 2292
                  50 00000000G   EF    D0 00428          MOVL     QTAB_OFFSET,R0                       ; 2293
                     FFFFFFF9GEF40    94 0042F          CLRB     BDATA-7[R0]
      03 00000033G   EF              00    E0 00436          BBS      #0,VDATA+51,.+3                      ; 2295
                               0000V    31 0043E          BRW      289$
                  02 000000F8G   EF    D1 00441          CMPL     IDATA+248,#2
                                   03    14 00448          BGTR     .+3
                               0000V    31 0044A          BRW      289$
                  21 000000DCG   EF    D1 0044D          CMPL     IDATA+220,#33
                                   03    13 00454          BEQL     .+3
                               0000V    31 00456          BRW      289$
                    00000084G   EF    D5 00459          TSTL     IDATA+132
                                   03    13 0045F          BEQL     .+3
                               0000V    31 00461          BRW      289$
                          00   8F    9F 00464          PUSHAB   #0                                   ; 2305
                    00000000   8F    DF 00467          PUSHAL   #0
                          7B   8F    9F 0046D          PUSHAB   #123
                    00000084G   EF    9F 00470          PUSHAB   IDATA+132
                          0B   8F    9F 00476          PUSHAB   #11
                          01   8F    9F 00479          PUSHAB   #1
           8103   CF               06    FB 0047C          CALLS    #6,ALT_SOURCE
                  5C               50    90 00481          MOVB     R0,PRE_PROCESS
                               0000V    31 00484          BRW      289$
                                   5C    94 00487  75$:   CLRB     PRE_PROCESS                          ; 2314
                  50 00000000G   EF    D0 00489          MOVL     QTAB_OFFSET,R0                       ; 2315
                     FFFFFFF9GEF40    94 00490          CLRB     BDATA-7[R0]
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```
00V00000033G  EF              00   E1 00497         BBC     #0,VDATA+51,79$                          ; 2317
              02 000000F8G   EF    D1 0049F         CMPL    IDATA+248,#2
                             00V   15 004A6         BLEQ    79$
              21 000000DCG   EF    D1 004A8         CMPL    IDATA+220,#33
                             00V   12 004AF         BNEQ    79$
                        00   8F    9F 004B1         PUSHAB  #0                                       ; 2325
                  00000000   8F    DF 004B4         PUSHAL  #0
                        7E   8F    9F 004BA         PUSHAB  #126
                 00000084G   EF    9F 004BD         PUSHAB  IDATA+132
                        0B   8F    9F 004C3         PUSHAB  #11
                        01   8F    9F 004C6         PUSHAB  #1
        8103  CF              06   FB 004C9         CALLS   #6,ALT_SOURCE
              5C              50   90 004CE         MOVB    R0,PRE_PROCESS
                           0000V   31 004D1  79$:   BRW     289$
                              5C   94 004D4  80$:   CLRB    PRE_PROCESS                              ; 2334
                 000000ECG   EF    D4 004D6         CLRL    IDATA+236                                ; 2335
                        01   8F    9F 004DC         PUSHAB  #1                                       ; 2337
                  00000000   8F    DF 004DF         PUSHAL  #0
                        11   8F    9F 004E5         PUSHAB  #17
                 00000084G   EF    9F 004E8         PUSHAB  IDATA+132
                        04   8F    9F 004EE         PUSHAB  #4
                        01   8F    9F 004F1         PUSHAB  #1
        8103  CF              06   FB 004F4         CALLS   #6,ALT_SOURCE
              56              50   90 004F9         MOVB    R0,RESULT
                           0000V   31 004FC         BRW     289$
                              50   D4 004FF  81$:   CLRL    R0                                       ; 2346
   00000000G  EF              50   D0 00501  82$:   MOVL    R0,TEMP_INT2
              51 00000000G   EF    D0 00508         MOVL    TEMP_INT2,R1                             ; 2350
                 00000000GEF41     94 0050F         CLRB    SEGMENT_WANTED[R1]
              51 00000000G   EF    D0 00516         MOVL    TEMP_INT2,R1                             ; 2351
                 00000000GEF41     D4 0051D         CLRL    SEGMENT_POSITION[R1]
              51 00000000G   EF    D0 00524         MOVL    TEMP_INT2,R1                             ; 2352
                 00000000GEF41     D4 0052B         CLRL    SEGMENT_LENGTH[R1]
CB            50              07   F3 00532         AOBLEQ  #7,R0,82$
              50 00000000G   EF    D0 00536         MOVL    QTAB_OFFSET,R0                           ; 2356
                 FFFFFFF9GEF40     94 0053D         CLRB    BDATA-7[R0]
              21 000000DCG   EF    D1 00544         CMPL    IDATA+220,#33                            ; 2358
                              03   12 0054B         BNEQ    .+3
                           0000V   31 0054D         BRW     289$
                              5C   94 00550         CLRB    PRE_PROCESS                              ; 2360
                           0000V   31 00552         BRW     289$
00V00000000G  EF              00   E1 00555  85$:   BBC     #0,OPTIMIZING,90$                        ; 2375
                  00000000   8F    DF 0055D         PUSHAL  #0                                       ; 2379
                        55   8F    9F 00563         PUSHAB  #85
                  00000000   8F    DF 00566         PUSHAL  #0
                        08   8F    9F 0056C         PUSHAB  #8
                        01   8F    9F 0056F         PUSHAB  #1
   00000000G  EF              05   FB 00572         CALLS   #5,FIND_OBJECT
              00V             50   E9 00579         BLBC    R0,88$
   00000000G  EF              01   D0 0057C         MOVL    #1,INPUT_VALUE                           ; 2381
                             00V   11 00583         BRB     89$
                 00000000G   EF    D4 00585  88$:   CLRL    INPUT_VALUE                              ; 2385
                              5C   94 0058B  89$:   CLRB    PRE_PROCESS                              ; 2387
                           0000V   31 0058D  90$:   BRW     289$
                              5C   94 00590  91$:   CLRB    PRE_PROCESS                              ; 2397
                        00   8F    9F 00592         PUSHAB  #0                                       ; 2398
                  00000000   8F    DF 00595         PUSHAL  #0
```

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                                    55  8F    9F 0059B         PUSHAB  #85
                             00000000   8F    DF 0059E         PUSHAL  #0
                                    08  8F    9F 005A4         PUSHAB  #8
                                    01  8F    9F 005A7         PUSHAB  #1
                     8103  CF           06    FB 005AA         CALLS   #6,ALT_SOURCE
                           56           50    90 005AF         MOVB    R0,RESULT
                                      0000V   31 005B2         BRW     289$
                             00000084G  EF    D5 005B5 92$:    TSTL    IDATA+132                                    ; 2410
                                        00V   13 005BB         BEQL    94$
                          50 00000000G  EF    D0 005BD         MOVL    QTAB_OFFSET,R0
            00VFFFFFFFF5GEF40           00    E0 005C4         BBS     #0,VDATA-11[R0],95$
                           5C           01    90 005CD 94$:    MOVB    #1,PRE_PROCESS
                                        00V   11 005D0         BRB     96$
                                        5C    94 005D2 95$:    CLRB    PRE_PROCESS
            00V00000000G   EF           00    E1 005D4 96$:    BBC     #0,OPTIMIZING,101$                           ; 2416
               00000000G   EF           00    FB 005DC         CALLS   #0,POINT_AT_ANALYSIS                         ; 2420
                             00000000   8F    DF 005E3         PUSHAL  #0                                           ; 2422
                                    0D  8F    9F 005E9         PUSHAB  #13
                             00000000   8F    DF 005EC         PUSHAL  #0
                                    04  8F    9F 005F2         PUSHAB  #4
                                    01  8F    9F 005F5         PUSHAB  #1
               00000000G   EF           05    FB 005F8         CALLS   #5,FIND_OBJECT
                          00V           50    E9 005FF         BLBC    R0,99$
                          50 00000000G  EF    D0 00602         MOVL    DEF_CURRENT,R0                               ; 2424
               00000000G   EF       27  A0    D0 00609         MOVL    39(R0),OLD_COUNT
                                        00V   11 00611         BRB     100$
                             00000000G  EF    D4 00613 99$:    CLRL    OLD_COUNT                                    ; 2428
               00000000G   EF           00    FB 00619 100$:   CALLS   #0,POINT_AT_DEFINITION                       ; 2430
            50 00000000G   EF           19    C5 00620         MULL3   #25,QTAB_OFFSET,R0                           ; 2432
               FFFFFFEF1GEF40           01    90 00628         MOVB    #1,QTAB-271[R0]
            50 00000000G   EF           19    C5 00630         MULL3   #25,QTAB_OFFSET,R0                           ; 2433
FFFFFFEF2GEF40 00000000G   EF           04    28 00638         MOVC3   #4,OLD_COUNT,QTAB-270[R0]
                                        00V   11 00645         BRB     102$
            50 00000000G   EF           19    C5 00647 101$:   MULL3   #25,QTAB_OFFSET,R0                           ; 2439
                             FFFFFFEF1GEF40   94 0064F         CLRB    QTAB-271[R0]
                                      0000V   31 00656 102$:   BRW     289$
                             000000C0G  EF    D5 00659 103$:   TSTL    IDATA+192                                    ; 2449
                                        00V   15 0065F         BLEQ    108$
                             000000E0G  EF    D5 00661         TSTL    IDATA+224
                                        00V   13 00667         BEQL    108$
                             00000084G  EF    D5 00669         TSTL    IDATA+132
                                        00V   13 0066F         BEQL    107$
            00V0000000CG   EF           00    E0 00671         BBS     #0,VDATA+12,108$
                           5C           01    90 00679 107$:   MOVB    #1,PRE_PROCESS
                                        00V   11 0067C         BRB     109$
                                        5C    94 0067E 108$:   CLRB    PRE_PROCESS
                                      0000V   31 00680 109$:   BRW     289$
                             00000084G  EF    D5 00683 110$:   TSTL    IDATA+132                                    ; 2467
                                        00V   13 00689         BEQL    112$
            00V00000017G   EF           00    E0 0068B         BBS     #0,VDATA+23,113$
                           5C           01    90 00693 112$:   MOVB    #1,PRE_PROCESS
                                      0000V   31 00696         BRW     289$
                                        5C    94 00699 113$:   CLRB    PRE_PROCESS
                                      0000V   31 0069B         BRW     289$
                             000000C0G  EF    D5 0069E 115$:   TSTL    IDATA+192                                    ; 2477
                                        00V   15 006A4         BLEQ    121$
                             00000084G  EF    D5 006A6         TSTL    IDATA+132                                    ; 2479
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```
                            00V   13 006AC          BEQL     118$
           50 00000000G     EF    D0 006AE          MOVL     QTAB_OFFSET,R0
   00VFFFFFFF5GEF40         00    E0 006B5          BBS      #0,VDATA-11[R0],119$
                  56        01    90 006BE  118$:   MOVB     #1,RESULT
                            00V   11 006C1          BRB      122$
                            56    94 006C3  119$:   CLRB     RESULT
                            00V   11 006C5          BRB      122$
           50 00000000G     EF    D0 006C7  121$:   MOVL     QTAB_OFFSET,R0                        ; 2492
     00000000GEF40          02    D0 006CE          MOVL     #2,IDATA[R0]
                            56    94 006D6          CLRB     RESULT                                ; 2493
         00V                56    E8 006D8  122$:   BLBS     RESULT,124$                           ; 2497
           50 00000000G     EF    D0 006DB          MOVL     QTAB_OFFSET,R0                        ; 2499
     00000000G  EF 00000000GEF40  D0 006E2          MOVL     IDATA[R0],INPUT_VALUE
                5C          56    90 006EE  124$:   MOVB     RESULT,PRE_PROCESS                    ; 2501
                          0000V   31 006F1          BRW      289$
           04 00000108G     EF    D1 006F4  125$:   CMPL     IDATA+264,#4                          ; 2509
                            00V   12 006FB          BNEQ     127$
                5C          01    90 006FD          MOVB     #1,PRE_PROCESS                        ; 2511
                          0000V   31 00700          BRW      289$
                            5C    94 00703  127$:   CLRB     PRE_PROCESS                           ; 2517
     00000000G  EF          01    D0 00705          MOVL     #1,INPUT_VALUE                        ; 2518
                          0000V   31 0070C          BRW      289$
     00000000G  EF     7E   8F    9A 0070F  129$:   MOVZBL   #126,MAX_STRING_ANSWER_LENGTH         ; 2528
           50 00000000G     EF    D0 00717          MOVL     QTAB_OFFSET,R0                        ; 2529
          FFFFFFF9GEF40     94    0071E             CLRB     BDATA-7[R0]
  03 00000000G  EF          00    E0 00725          BBS      #0,OPTIMIZING,.+3                     ; 2531
                          0000V   31 0072D          BRW      289$
                     00     8F    9F 00730          PUSHAB   #0                                    ; 2533
               00000000     8F    DF 00733          PUSHAL   #0
                     5E     8F    9F 00739          PUSHAB   #94
               00000000     8F    DF 0073C          PUSHAL   #0
                     08     8F    9F 00742          PUSHAB   #8
                     01     8F    9F 00745          PUSHAB   #1
          8103  CF          06    FB 00748          CALLS    #6,ALT_SOURCE
                5C          50    90 0074D          MOVB     R0,PRE_PROCESS
                          0000V   31 00750          BRW      289$
     00000000G  EF     7E   8F    9A 00753  132$:   MOVZBL   #126,MAX_STRING_ANSWER_LENGTH         ; 2542
           50 00000000G     EF    D0 0075B          MOVL     QTAB_OFFSET,R0                        ; 2543
          FFFFFFF9GEF40     94    00762             CLRB     BDATA-7[R0]
  00V00000000G  EF          00    E1 00769          BBC      #0,OPTIMIZING,134$                    ; 2545
                     00     8F    9F 00771          PUSHAB   #0                                    ; 2547
               00000000     8F    DF 00774          PUSHAL   #0
                     00     8F    9F 0077A          PUSHAB   #0
               00000000     8F    DF 0077D          PUSHAL   #0
                     0F     8F    9F 00783          PUSHAB   #15
                     00     8F    9F 00786          PUSHAB   #0
          8103  CF          06    FB 00789          CALLS    #6,ALT_SOURCE
                5C          50    90 0078E          MOVB     R0,PRE_PROCESS
                          0000V   31 00791  134$:   BRW      289$
     00000000G  EF          20    D0 00794  135$:   MOVL     #32,MAX_STRING_ANSWER_LENGTH          ; 2556
           50 00000000G     EF    D0 0079B          MOVL     QTAB_OFFSET,R0                        ; 2557
          FFFFFFF9GEF40     94    007A2             CLRB     BDATA-7[R0]
  03 00000000G  EF          00    E0 007A9          BBS      #0,OPTIMIZING,.+3                     ; 2559
                          0000V   31 007B1          BRW      289$
                     00     8F    9F 007B4          PUSHAB   #0                                    ; 2561
               00000000     8F    DF 007B7          PUSHAL   #0
                     81     8F    9F 007BD          PUSHAB   #-127
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                               00000084G    EF  9F 007C0         PUSHAB  IDATA+132
                                         0B 8F  9F 007C6         PUSHAB  #11
                                         01 8F  9F 007C9         PUSHAB  #1
                     8103   CF              06  FB 007CC         CALLS   #6,ALT_SOURCE
                            5C              50  90 007D1         MOVB    R0,PRE_PROCESS
                                         0000V  31 007D4         BRW     289$
                 00000000G  EF     7E       8F  9A 007D7 138$:   MOVZBL  #126,MAX_STRING_ANSWER_LENGTH                  ; 2571
                            50 00000000G    EF  D0 007DF         MOVL    QTAB_OFFSET,R0                                 ; 2572
                                 FFFFFFF9GEF40  94 007E6         CLRB    BDATA-7[R0]
              03 00000000G  EF              00  E0 007ED         BBS     #0,OPTIMIZING,.+3                              ; 2574
                                         0000V  31 007F5         BRW     289$
                                            5C  94 007F8         CLRB    PRE_PROCESS                                    ; 2576
                                         0000V  31 007FA         BRW     289$
                               00000088G    EF  D5 007FD 141$:   TSTL    IDATA+136                                      ; 2586
                                           00V  15 00803         BLEQ    145$
                               00000084G    EF  D5 00805         TSTL    IDATA+132
                                           00V  13 0080B         BEQL    144$
              00V0000000BG  EF              00  E0 0080D         BBS     #0,VDATA+11,145$
                            5C              01  90 00815 144$:   MOVB    #1,PRE_PROCESS
                                         0000V  31 00818         BRW     289$
                                            5C  94 0081B 145$:   CLRB    PRE_PROCESS
                                         0000V  31 0081D         BRW     289$
              50 00000000G  EF              19  C5 00820 147$:   MULL3   #25,QTAB_OFFSET,R0                             ; 2598
   FFFFFEF2GEF40 00000000G  EF              04  28 00828         MOVC3   #4,BUCKET_DEFAULT,QTAB-270[R0]
                               00000000     8F  DF 00835         PUSHAL  #0                                             ; 2604
                 00000000G  EF              01  FB 0083B         CALLS   #1,CALC_BUC_OVERHEAD
                 00000000G  EF              50  D0 00842         MOVL    R0,BUCKET_OVERHEAD
                               00000084G    EF  D5 00849         TSTL    IDATA+132                                      ; 2609
                                           00V  12 0084F         BNEQ    149$
                 00000000G  EF 000000E4G    EF  D0 00851         MOVL    IDATA+228,ENTRY_SIZE                           ; 2611
                                           00V  11 0085C         BRB     156$
              00V00000013G  EF              00  E1 0085E 149$:   BBC     #0,BDATA+19,154$                               ; 2617
                               00000000G    EF  D4 00866         CLRL    ENTRY_SIZE                                     ; 2621
                                            50  D4 0086C         CLRL    R0                                             ; 2623
                 00000000G  EF              50  D0 0086E 151$:   MOVL    R0,TEMP_INT2
                            51 00000000G    EF  D0 00875         MOVL    TEMP_INT2,R1                                   ; 2627
              00V00000000GEF41              00  E1 0087C         BBC     #0,SEGMENT_WANTED[R1],153$
                            51 00000000G    EF  D0 00885         MOVL    TEMP_INT2,R1                                   ; 2629
                 00000000G  EF   00000000GEF41  C0 0088C         ADDL2   SEGMENT_LENGTH[R1],ENTRY_SIZE
              D2            50              07  F3 00898 153$:   AOBLEQ  #7,R0,151$
                                           00V  11 0089C         BRB     156$
                 00000000G  EF 000000D8G    EF  D0 0089E 154$:   MOVL    IDATA+216,ENTRY_SIZE                           ; 2638
                               00000000     8F  DF 008A9 156$:   PUSHAL  #0                                             ; 2642
                 00000000G  EF              01  FB 008AF         CALLS   #1,CALC_REC_OVERHEAD
              51 00000000G  EF 00000000G    EF  C1 008B6         ADDL3   BUCKET_OVERHEAD,ENTRY_SIZE,R1                  ; 2644
                            51              50  C0 008C2         ADDL2   RECORD_OVERHEAD,R1
   00000000G  EF            51 00000200     8F  C7 008C5         DIVL3   #512,R1,MIN_BUCKET
              51 00000000G  EF 00000000G    EF  C1 008D1         ADDL3   BUCKET_OVERHEAD,ENTRY_SIZE,R1                  ; 2647
                            51              50  C0 008DD         ADDL2   RECORD_OVERHEAD,R1
51            51            00              00  7A 008E0         EMUL    #0,#0,R1,R1
51            51            51 00000200     8F  7B 008E5         EDIV    #512,R1,R1,R1
                                            51  D5 008EE         TSTL    R1
                                           00V  18 008F0         BGEQ    157$
                            51 00000200     8F  C0 008F2         ADDL2   #512,R1
                                            51  D5 008F9 157$:   TSTL    R1
                                           00V  12 008FB         BNEQ    159$
                               00000000G    EF  D5 008FD         TSTL    MIN_BUCKET
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```
                                                     00V  12 00903          BNEQ    160$
                                          00000000G   EF  D6 00905 159$:    INCL    MIN_BUCKET                                 ; 2653
                         51 00000000G  EF             19  C5 0090B 160$:    MULL3   #25,QTAB_OFFSET,R1                         ; 2655
              FFFFFEF6GEF41 00000000G  EF             04  28 00913          MOVC3   #4,MIN_BUCKET,QTAB-266[R1]
                         50 00000000G  EF             19  C5 00920          MULL3   #25,QTAB_OFFSET,R0                         ; 2657
                                       51  FFFFFEF2GEF40  9E 00928          MOVAB   QTAB-270[R0],R1
           50 FFFFFEF6GEF40            20             00  EE 00930          EXTV    #0,#32,QTAB-266[R0],R0
                                       50             61  D1 0093A          CMPL    (R1),R0
                                                      03  19 0093D          BLSS    .+3
                                                   0000V  31 0093F          BRW     289$
                                       61             50  D0 00942          MOVL    R0,(R1)                                    ; 2659
                                                   0000V  31 00945          BRW     289$
                         07            21 000000DCG   EF  CF 00948 163$:    CASEL   IDATA+220,#33,#7                           ; 2670
                                                   0000V     00950          .DISPL  168$
                                                   0000V     00952          .DISPL  164$
                                                   0000V     00954          .DISPL  164$
                                                   0000V     00956          .DISPL  165$
                                                   0000V     00958          .DISPL  165$
                                                   0000V     0095A          .DISPL  166$
                                                   0000V     0095C          .DISPL  166$
                                                   0000V     0095E          .DISPL  167$
                                                     00V  11 00960          BRB     169$
                            00000000G  EF             02  D0 00962 164$:    MOVL    #2,MAX_KEY_SIZE                            ; 2676
                            00000000G  EF             02  D0 00969          MOVL    #2,MIN_KEY_SIZE                            ; 2677
                                                     00V  11 00970          BRB     170$
                            00000000G  EF             04  D0 00972 165$:    MOVL    #4,MAX_KEY_SIZE                            ; 2685
                            00000000G  EF             04  D0 00979          MOVL    #4,MIN_KEY_SIZE                            ; 2686
                                                     00V  11 00980          BRB     170$
                            00000000G  EF             08  D0 00982 166$:    MOVL    #8,MAX_KEY_SIZE                            ; 2694
                            00000000G  EF             08  D0 00989          MOVL    #8,MIN_KEY_SIZE                            ; 2695
                                                     00V  11 00990          BRB     170$
                            00000000G  EF             10  D0 00992 167$:    MOVL    #16,MAX_KEY_SIZE                           ; 2703
                            00000000G  EF             01  D0 00999          MOVL    #1,MIN_KEY_SIZE                            ; 2704
                                                     00V  11 009A0          BRB     170$
                            00000000G  EF        FF   8F  9A 009A2 168$:    MOVZBL  #255,MAX_KEY_SIZE                          ; 2712
                            00000000G  EF             01  D0 009AA          MOVL    #1,MIN_KEY_SIZE                            ; 2713
                                                     00V  11 009B1          BRB     170$
                                                             009B3 169$:
                                          000000E4G   EF  D5 009B3 170$:    TSTL    IDATA+228                                  ; 2726
                                                     00V  13 009B9          BEQL    173$
                            00000000G  EF 000000E4G   EF  D1 009BB          CMPL    IDATA+228,MAX_KEY_SIZE
                                                     00V  18 009C6          BGEQ    173$
                            00000000G  EF 000000E4G   EF  D0 009C8          MOVL    IDATA+228,MAX_KEY_SIZE                     ; 2732
                         51 00000000G  EF             19  C5 009D3 173$:    MULL3   #25,QTAB_OFFSET,RT                         ; 2734
              FFFFFEF6GEF41 00000000G  EF             04  28 009DB          MOVC3   #4,MIN_KEY_SIZE,QTAB-266[R1]
                         50 00000000G  EF             19  C5 009E8          MULL3   #25,QTAB_OFFSET,R0                         ; 2735
              FFFFFEFAGEF40 00000000G  EF             04  28 009F0          MOVC3   #4,MAX_KEY_SIZE,QTAB-262[R0]
                                                 00   8F  9F 009FD          PUSHAB  #0                                         ; 2737
                                          00000000G   EF  9F 00A00          PUSHAB  SEGMENT_NUMBER
                                                 85   8F  9F 00A06          PUSHAB  #-123
                                          00000084G   EF  9F 00A09          PUSHAB  IDATA+132
                                                 0B   8F  9F 00A0F          PUSHAB  #11
                                                 01   8F  9F 00A12          PUSHAB  #1
                                 8103  CF             06  FB 00A15          CALLS   #6,ALT_SOURCE
                                       56             50  90 00A1A          MOVB    R0,RESULT
                                       5C             56  90 00A1D          MOVB    RESULT,PRE_PROCESS                         ; 2740
                                                      50  94 00A20          CLRB    R0                                         ; 2742
```

```
                   51 00000000G EF           19 C5 00A22          MULL3   #25,QTAB_OFFSET,R1
                               52 FFFFFEF6GEF41 9E 00A2A          MOVAB   QTAB-266[R1],R2
       62 FFFFFEFAGEF41         20           00 EC 00A32          CMPV    #0,#32,QTAB-262[R1],(R2)
                                            00V 13 00A3C          BEQL    175$
                                             50 96 00A3E          INCB    R0
                                56           50 8A 00A40 175$:    BICB2   R0,RESULT
                                00V          56 E9 00A43          BLBC    RESULT,177$
                                             5C 94 00A46          CLRB    PRE_PROCESS                           ; 2750
                      00000000G EF           62 D0 00A48          MOVL    (R2),INPUT_VALUE                      ; 2751
                                52 00000000G EF D0 00A4F          MOVL    QTAB_OFFSET,R2                        ; 2752
                     00000000GEF42 00000000G EF D0 00A56          MOVL    INPUT_VALUE,IDATA[R2]
                                52 00000000G EF D0 00A62          MOVL    SEGMENT_NUMBER,R2                     ; 2753
                     00000000GEF42 00000000G EF D0 00A69          MOVL    INPUT_VALUE,SEGMENT_LENGTH[R2]
                                          0000V 31 00A75 177$:    BRW     289$
                                   00000084G EF D5 00A78 178$:    TSTL    IDATA+132                             ; 2763
                                            00V 13 00A7E          BEQL    180$
                   00V00000033G EF           00 E0 00A80          BBS     #0,VDATA+51,181$
                                          00 8F 9F 00A88 180$:    PUSHAB  #0                                    ; 2769
                                    00000000 8F DF 00A8B          PUSHAL  #0
                                          84 8F 9F 00A91          PUSHAB  #-124
                                   00000084G EF 9F 00A94          PUSHAB  IDATA+132
                                          0B 8F 9F 00A9A          PUSHAB  #11
                                          01 8F 9F 00A9D          PUSHAB  #1
                           8103 CF           06 FB 00AA0          CALLS   #6,ALT_SOURCE
                                5C           50 90 00AA5          MOVB    R0,PRE_PROCESS
                                          0000V 31 00AA8          BRW     289$
                                             5C 94 00AAB 181$:    CLRB    PRE_PROCESS                           ; 2774
                                          0000V 31 00AAD          BRW     289$
                                          01 8F 9F 00AB0 183$:    PUSHAB  #1                                    ; 2785
                      00000000G EF           01 FB 00AB3          CALLS   #1,SCAN_DEFINITION
                   50 00000000G EF           19 C5 00ABA          MULL3   #25,QTAB_OFFSET,R0                    ; 2787
        FFFFFEF6GEF40 00000000G EF           04 28 00AC2          MOVC3   #4,LOW_KEY,QTAB-266[R0]
                   50 00000000G EF           19 C5 00ACF          MULL3   #25,QTAB_OFFSET,R0                    ; 2788
        FFFFFEFAGEF40 00000000G EF           04 28 00AD7          MOVC3   #4,HIGH_KEY,QTAB-262[R0]
                   50 00000000G EF           19 C5 00AE4          MULL3   #25,QTAB_OFFSET,R0                    ; 2790
                               52 FFFFFEF6GEF40 9E 00AEC          MOVAB   QTAB-266[R0],R2
       62 FFFFFEFAGEF40         20           00 EC 00AF4          CMPV    #0,#32,QTAB-262[R0],(R2)
                                             03 13 00AFE          BEQL    .+3
                                          0000V 31 00B00          BRW     289$
                                             5C 94 00B03          CLRB    PRE_PROCESS                           ; 2796
                      00000000G EF           62 D0 00B05          MOVL    (R2),INPUT_VALUE                      ; 2797
                                          0000V 31 00B0C          BRW     289$
                                   00000084G EF D5 00B0F 186$:    TSTL    IDATA+132                             ; 2811
                                            00V 13 00B15          BEQL    188$
                   00V0000001CG EF           00 E0 00B17          BBS     #0,VDATA+28,189$
                                          00 8F 9F 00B1F 188$:    PUSHAB  #0                                    ; 2817
                                    00000000 8F DF 00B22          PUSHAL  #0
                                          89 8F 9F 00B28          PUSHAB  #-119
                                    00000000 8F DF 00B2B          PUSHAL  #0
                                          0C 8F 9F 00B31          PUSHAB  #12
                                          01 8F 9F 00B34          PUSHAB  #1
                           8103 CF           06 FB 00B37          CALLS   #6,ALT_SOURCE
                                5C           50 90 00B3C          MOVB    R0,PRE_PROCESS
                                          0000V 31 00B3F          BRW     289$
                                             5C 94 00B42 189$:    CLRB    PRE_PROCESS                           ; 2822
                                          0000V 31 00B44          BRW     289$
                       00000100 8F 000000E8G EF D1 00B47 191$:    CMPL    IDATA+232,#256                        ; 2833
```

```
                                       00V  18 00B52         BGEQ    193$
              00000000G  EF 000000E8G  EF   D0 00B54         MOVL    IDATA+232,CUR_MAX_FIXED             ; 2835
                                       00V  11 00B5F         BRB     194$
              00000000G  EF        FF  8F   9A 00B61 193$:   MOVZBL  #255,CUR_MAX_FIXED                  ; 2839
           50 00000000G  EF            19   C5 00B69 194$:   MULL3   #25,QTAB_OFFSET,R0                  ; 2841
FFFFFEFAGEF40 00000000G  EF            04   28 00B71         MOVC3   #4,CUR_MAX_FIXED,QTAB-262[R0]
                                  00   8F   9F 00B7E         PUSHAB  #0                                  ; 2843
                            00000000   8F   DF 00B81         PUSHAL  #0
                                  8A   8F   9F 00B87         PUSHAB  #-118
                            00000000   8F   DF 00B8A         PUSHAL  #0
                                  0C   8F   9F 00B90         PUSHAB  #12
                                  01   8F   9F 00B93         PUSHAB  #1
                8103     CF            06   FB 00B96         CALLS   #6,ALT_SOURCE
                         5C            50   90 00B9B         MOVB    R0,PRE_PROCESS
                                     0000V  31 00B9E         BRW     289$
                                  00   8F   9F 00BA1 195$:   PUSHAB  #0                                  ; 2851
                            00000007   8F   DF 00BA4         PUSHAL  #7
                                  87   8F   9F 00BAA         PUSHAB  #-121
                            00000084G  EF   9F 00BAD         PUSHAB  IDATA+132
                                  0B   8F   9F 00BB3         PUSHAB  #11
                                  01   8F   9F 00BB6         PUSHAB  #1
                8103     CF            06   FB 00BB9         CALLS   #6,ALT_SOURCE
                         5C            50   90 00BBE         MOVB    R0,PRE_PROCESS
                                     0000V  31 00BC1         BRW     289$
                            000000C0G  EF   D5 00BC4 196$:   TSTL    IDATA+192                           ; 2863
                                       00V  15 00BCA         BLEQ    198$
                                  00   8F   9F 00BCC         PUSHAB  #0                                  ; 2867
                            00000000   8F   DF 00BCF         PUSHAL  #0
                                  79   8F   9F 00BD5         PUSHAB  #121
                            00000084G  EF   9F 00BD8         PUSHAB  IDATA+132
                                  0B   8F   9F 00BDE         PUSHAB  #11
                                  01   8F   9F 00BE1         PUSHAB  #1
                8103     CF            06   FB 00BE4         CALLS   #6,ALT_SOURCE
                         5C            50   90 00BE9         MOVB    R0,PRE_PROCESS
                                     0000V  31 00BEC         BRW     289$
              000000ACG  EF        64  8F   9A 00BEF 198$:   MOVZBL  #100,IDATA+172                      ; 2877
              00000000G  EF        64  8F   9A 00BF7         MOVZBL  #100,IDATA                          ; 2878
                                  5C        94 00BFF         CLRB    PRE_PROCESS                         ; 2879
                                     0000V  31 00C01         BRW     289$
              000000E8G  EF 00000000G  EF   D1 00C04 200$:   CMPL    CUR_MAX_REC,IDATA+232               ; 2894
                                       00V  18 00C0F         BGEQ    202$
              00000000G  EF 00000000G  EF   D0 00C11         MOVL    CUR_MAX_REC,LOWMAX                  ; 2896
                                       00V  11 00C1C         BRB     203$
              00000000G  EF 000000E8G  EF   D0 00C1E 202$:   MOVL    IDATA+232,LOWMAX                    ; 2900
           50 00000000G  EF            19   C5 00C29 203$:   MULL3   #25,QTAB_OFFSET,R0                  ; 2902
FFFFFEF6GEF40 00000000G  EF            04   28 00C31         MOVC3   #4,LOWMAX,QTAB-266[R0]
           50 00000000G  EF            19   C5 00C3E         MULL3   #25,QTAB_OFFSET,R0                  ; 2903
FFFFFEFAGEF40 00000000G  EF            04   28 00C46         MOVC3   #4,CUR_MAX_REC,QTAB-262[R0]
                                  00   8F   9F 00C53         PUSHAB  #0                                  ; 2905
                            00000000   8F   DF 00C56         PUSHAL  #0
                                  8C   8F   9F 00C5C         PUSHAB  #-116
                            00000000   8F   DF 00C5F         PUSHAL  #0
                                  0C   8F   9F 00C65         PUSHAB  #12
                                  01   8F   9F 00C68         PUSHAB  #1
                8103     CF            06   FB 00C6B         CALLS   #6,ALT_SOURCE
                         5C            50   90 00C70         MOVB    R0,PRE_PROCESS
                                     0000V  31 00C73         BRW     289$
```

```
                                00000000   8F   DF 00C76 204$:   PUSHAL  #0                                ; 2911
                  00000000G  EF            01   FB 00C7C         CALLS   #1,CALC_BUC_OVERHEAD
                             52            50   D0 00C83         MOVL    R0,R2
                                00000000   8F   DF 00C86         PUSHAL  #0
                  00000000G  EF            01   FB 00C8C         CALLS   #1,CALC_REC_OVERHEAD
                             50          6042   9E 00C93         MOVAB   (R0)[R2],R0
       00000000G  EF 00007E00  8F          50   C3 00C97         SUBL3   R0,#32256,CUR_MAX_REC
                                         0000V  31 00CA3         BRW     289$
                  06        00 00000108G   EF   CF 00CA6 205$:   CASEL   IDATA+264,#0,#6                   ; 2921
                                         0000V     00CAE         .DISPL  206$
                                         0000V     00CB0         .DISPL  206$
                                         0000V     00CB2         .DISPL  206$
                                         0000V     00CB4         .DISPL  208$
                                         0000V     00CB6         .DISPL  207$
                                         0000V     00CB8         .DISPL  206$
                                         0000V     00CBA         .DISPL  206$
                                           00V  11 00CBC         BRB     212$
                                00000000   8F   DF 00CBE 206$:   PUSHAL  #0                                ; 2928
                  00000000G  EF            01   FB 00CC4         CALLS   #1,CALC_BUC_OVERHEAD
                             52            50   D0 00CCB         MOVL    R0,R2
                                00000000   8F   DF 00CCE         PUSHAL  #0
                  00000000G  EF            01   FB 00CD4         CALLS   #1,CALC_REC_OVERHEAD
                             50          6042   9E 00CDB         MOVAB   (R0)[R2],R0
       00000000G  EF 00007E00  8F          50   C3 00CDF         SUBL3   R0,#32256,CUR_MAX_REC
                                           00V  11 00CEB         BRB     213$
                  00000000G  EF      7FFF  8F   3C 00CED 207$:   MOVZWL  #32767,CUR_MAX_REC                ; 2930
                                           00V  11 00CF6         BRB     213$
               00V00000000G  EF            00   E1 00CF8 208$:   BBC     #0,VARIABLE_RECORDS,210$          ; 2931
                  00000000G  EF      3FFD  8F   3C 00D00         MOVZWL  #16381,CUR_MAX_REC                ; 2933
                                           00V  11 00D09         BRB     211$
                  00000000G  EF      3FFF  8F   3C 00D0B 210$:   MOVZWL  #16383,CUR_MAX_REC                ; 2937
                                           00V  11 00D14 211$:   BRB     213$
                                                   00D16 212$:
                        04 00000108G       EF   D1 00D16 213$:   CMPL    IDATA+264,#4                      ; 2945
                                           00V  12 00D1D         BNEQ    219$
               00V00000011G  EF            00   E0 00D1F         BBS     #0,BDATA+17,219$
               00V00000000G  EF            00   E1 00D27         BBC     #0,VARIABLE_RECORDS,217$          ; 2951
                  00000000G  EF      01FE  8F   3C 00D2F         MOVZWL  #510,CUR_MAX_REC                  ; 2953
                                           00V  11 00D38         BRB     218$
                  00000000G  EF      0200  8F   3C 00D3A 217$:   MOVZWL  #512,CUR_MAX_REC                  ; 2957
                                                   00D43 218$:
               50 00000000G  EF            19   C5 00D43 219$:   MULL3   #25,QTAB_OFFSET,R0                ; 2959
       FFFFFEFAGEF40 00000000G  EF         04   28 00D4B         MOVC3   #4,CUR_MAX_REC,QTAB-262[R0]
               00V00000000G  EF            00   E1 00D58         BBC     #0,VARIABLE_RECORDS,221$          ; 2961
                                      01   8F   9F 00D60         PUSHAB  #1                                ; 2963
                                00000000   8F   DF 00D63         PUSHAL  #0
                                      16   8F   9F 00D69         PUSHAB  #22
                                00000000   8F   DF 00D6C         PUSHAL  #0
                                      04   8F   9F 00D72         PUSHAB  #4
                                      01   8F   9F 00D75         PUSHAB  #1
                        8103 CF            06   FB 00D78         CALLS   #6,ALT_SOURCE
                             5C            50   90 00D7D         MOVB    R0,PRE_PROCESS
                                           00V  11 00D80         BRB     222$
                                      00   8F   9F 00D82 221$:   PUSHAB  #0                                ; 2968
                                00000000   8F   DF 00D85         PUSHAL  #0
                                      8C   8F   9F 00D8B         PUSHAB  #-116
                                00000000   8F   DF 00D8E         PUSHAL  #0
```

```
                         0C     8F   9F 00D94         PUSHAB  #12
                         01     8F   9F 00D97         PUSHAB  #1
        8103  CF                06   FB 00D9A         CALLS   #6,ALT_SOURCE
              5C                50   90 00D9F         MOVB    R0,PRE_PROCESS
                             0000V   31 00DA2 222$:   BRW     289$
00V00000000G  EF                00   E1 00DA5 223$:   BBC     #0,ISAM_ORG,226$                      ; 2980
                  00000084G     EF   D5 00DAD         TSTL    IDATA+132
                               00V   13 00DB3         BEQL    226$
00V00000035G  EF                00   E0 00DB5         BBS     #0,VDATA+53,227$
                         00     8F   9F 00DBD 226$:   PUSHAB  #0                                    ; 2988
                   00000000     8F   DF 00DC0         PUSHAL  #0
                         8B     8F   9F 00DC6         PUSHAB  #-117
                   00000000     8F   DF 00DC9         PUSHAL  #0
                         0C     8F   9F 00DCF         PUSHAB  #12
                         01     8F   9F 00DD2         PUSHAB  #1
        8103  CF                06   FB 00DD5         CALLS   #6,ALT_SOURCE
              5C                50   90 00DDA         MOVB    R0,PRE_PROCESS
                             0000V   31 00DDD         BRW     289$
                                5C   94 00DE0 227$:   CLRB    PRE_PROCESS                           ; 2992
                             0000V   31 00DE2         BRW     289$
03 00000000G  EF                00   E1 00DE5 229$:   BBC     #0,AUTO_TUNE,.+3                      ; 3000
                             0000V   31 00DED         BRW     287$
                   00000001     8F   DF 00DF0         PUSHAL  #1                                    ; 3007
   00000000G  EF                01   FB 00DF6         CALLS   #1,CLEAR
00V00000000G  EF                00   E1 00DFD         BBC     #0,REGIS,234$                         ; 3012
                   FFFF9821     EF   9F 00E05         PUSHAB  C.ALZ                                 ; 3016
                                04   DD 00E0B         PUSHL   #4
                  00000000G     EF   9F 00E0D         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E13         CALLS   #3,PAS$WRITE_STRING
              05  00000118G     EF   D1 00E1A         CMPL    IDATA+280,#5                          ; 3018
                               00V   13 00E21         BEQL    233$
                   FFFF9807     EF   9F 00E23         PUSHAB  C.AMA                                 ; 3020
                   00000046     8F   DD 00E29         PUSHL   #70
                  00000000G     EF   9F 00E2F         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E35         CALLS   #3,PAS$WRITE_STRING
                   FFFF9836     EF   9F 00E3C 233$:   PUSHAB  C.AMB                                 ; 3023
                                13   DD 00E42         PUSHL   #19
                  00000000G     EF   9F 00E44         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E4A         CALLS   #3,PAS$WRITE_STRING
                  00000000G     EF   9F 00E51         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                01   FB 00E57         CALLS   #1,PAS$WRITELN2
                  00000000G     EF   9F 00E5E 234$:   PUSHAB  LOW_SHIFT                             ; 3027
                                03   DD 00E64         PUSHL   #3
                  00000000G     EF   9F 00E66         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E6C         CALLS   #3,PAS$WRITE_STRING
                                01   DD 00E73         PUSHL   #1
                                20   DD 00E75         PUSHL   #32
                  00000000G     EF   9F 00E77         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E7D         CALLS   #3,PAS$WRITE_CHAR
                   FFFF9802     EF   9F 00E84         PUSHAB  C.AMC                                 ; 3029
                                18   DD 00E8A         PUSHL   #24
                  00000000G     EF   9F 00E8C         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00E92         CALLS   #3,PAS$WRITE_STRING
                                01   DD 00E99         PUSHL   #1
                  000000F8G     EF   DD 00E9B         PUSHL   IDATA+248
                  00000000G     EF   9F 00EA1         PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 00EA7         CALLS   #3,PAS$WRITE_INTEGER
```

```
                             01    DD 00EAE           PUSHL    #1
                             20    DD 00EB0           PUSHL    #32
                  00000000G  EF    9F 00EB2           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00EB8           CALLS    #3,PAS$WRITE_CHAR
                  FFFF97DF   EF    9F 00EBF           PUSHAB   C.AMD                                  ; 3030
                             06    DD 00EC5           PUSHL    #6
                  00000000G  EF    9F 00EC7           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00ECD           CALLS    #3,PAS$WRITE_STRING
                             03    DD 00ED4           PUSHL    #3
                  00000084G  EF    DD 00ED6           PUSHL    IDATA+132
                  00000000G  EF    9F 00EDC           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00EE2           CALLS    #3,PAS$WRITE_INTEGER
                  FFFF97BD   EF    9F 00EE9           PUSHAB   C.AME
                             09    DD 00EEF           PUSHL    #9
                  00000000G  EF    9F 00EF1           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00EF7           CALLS    #3,PAS$WRITE_STRING
07             21 000000DCG  EF    CF 00EFE           CASEL    IDATA+220,#33,#7                       ; 3034
                       0000V          00F06           .DISPL   242$
                       0000V          00F08           .DISPL   239$
                       0000V          00F0A           .DISPL   235$
                       0000V          00F0C           .DISPL   240$
                       0000V          00F0E           .DISPL   236$
                       0000V          00F10           .DISPL   241$
                       0000V          00F12           .DISPL   237$
                       0000V          00F14           .DISPL   238$
                       0000V       31 00F16           BRW      243$
                  FFFF9799   EF    9F 00F19 235$:     PUSHAB   C.AMF                                  ; 3036
                             08    DD 00F1F           PUSHL    #8
                  00000000G  EF    9F 00F21           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F27           CALLS    #3,PAS$WRITE_STRING
                       0000V       31 00F2E           BRW      244$
                  FFFF9789   EF    9F 00F31 236$:     PUSHAB   C.AMG                                  ; 3037
                             08    DD 00F37           PUSHL    #8
                  00000000G  EF    9F 00F39           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F3F           CALLS    #3,PAS$WRITE_STRING
                       0000V       31 00F46           BRW      244$
                  FFFF9779   EF    9F 00F49 237$:     PUSHAB   C.AMH                                  ; 3038
                             08    DD 00F4F           PUSHL    #8
                  00000000G  EF    9F 00F51           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F57           CALLS    #3,PAS$WRITE_STRING
                            00V    11 00F5E           BRB      244$
                  FFFF976A   EF    9F 00F60 238$:     PUSHAB   C.AMI                                  ; 3039
                             08    DD 00F66           PUSHL    #8
                  00000000G  EF    9F 00F68           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F6E           CALLS    #3,PAS$WRITE_STRING
                            00V    11 00F75           BRB      244$
                  FFFF975B   EF    9F 00F77 239$:     PUSHAB   C.AMJ                                  ; 3040
                             08    DD 00F7D           PUSHL    #8
                  00000000G  EF    9F 00F7F           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F85           CALLS    #3,PAS$WRITE_STRING
                            00V    11 00F8C           BRB      244$
                  FFFF974C   EF    9F 00F8E 240$:     PUSHAB   C.AMK                                  ; 3041
                             08    DD 00F94           PUSHL    #8
                  00000000G  EF    9F 00F96           PUSHAB   PAS$FV_OUTPUT
      00000000G  EF          03    FB 00F9C           CALLS    #3,PAS$WRITE_STRING
                            00V    11 00FA3           BRB      244$
                  FFFF973D   EF    9F 00FA5 241$:     PUSHAB   C.AML                                  ; 3042
```

```
                                 08  DD 00FAB          PUSHL    #8
                     00000000G   EF  9F 00FAD          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FB3          CALLS    #3,PAS$WRITE_STRING
                                 00V 11 00FBA          BRB      244$
                     FFFF972E    EF  9F 00FBC 242$:    PUSHAB   C.AMM                              ; 3043
                                 08  DD 00FC2          PUSHL    #8
                     00000000G   EF  9F 00FC4          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FCA          CALLS    #3,PAS$WRITE_STRING
                                 00V 11 00FD1          BRB      244$
                                        00FD3 243$:
                     FFFF971F    EF  9F 00FD3 244$:    PUSHAB   C.AMN                              ; 3051
                                 0D  DD 00FD9          PUSHL    #13
                     00000000G   EF  9F 00FDB          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FE1          CALLS    #3,PAS$WRITE_STRING
                05   00000118G   EF  D1 00FE8          CMPL     IDATA+280,#5                       ; 3053
                                 00V 13 00FEF          BEQL     246$
                     FFFF9711    EF  9F 00FF1          PUSHAB   C.AMO                              ; 3055
                                 05  DD 00FF7          PUSHL    #5
                     00000000G   EF  9F 00FF9          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 00FFF          CALLS    #3,PAS$WRITE_STRING
                     00000098G   EF  D5 01006 246$:    TSTL     IDATA+152                          ; 3057
                                 00V 12 0100C          BNEQ     248$
                     FFFF96FC    EF  9F 0100E          PUSHAB   C.AMP                              ; 3059
                                 07  DD 01014          PUSHL    #7
                     00000000G   EF  9F 01016          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 0101C          CALLS    #3,PAS$WRITE_STRING
                                 00V 11 01023          BRB      249$
                     FFFF96ED    EF  9F 01025 248$:    PUSHAB   C.AMQ                              ; 3063
                                 07  DD 0102B          PUSHL    #7
                     00000000G   EF  9F 0102D          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 01033          CALLS    #3,PAS$WRITE_STRING
                05   00000118G   EF  D1 0103A 249$:    CMPL     IDATA+280,#5                       ; 3065
                                 00V 12 01041          BNEQ     251$
        00000000G  EF            00  FB 01043          CALLS    #0,NATURAL_DEPTH                   ; 3069
        00000000G  EF            50  D0 0104A          MOVL     R0,BUCKET_DEFAULT
                     FFFF96C9    EF  9F 01051          PUSHAB   C.AMR                              ; 3070
                                 02  DD 01057          PUSHL    #2
                     00000000G   EF  9F 01059          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 0105F          CALLS    #3,PAS$WRITE_STRING
                                 02  DD 01066          PUSHL    #2
                     00000000G   EF  DD 01068          PUSHL    BUCKET_DEFAULT
                     00000000G   EF  9F 0106E          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 01074          CALLS    #3,PAS$WRITE_INTEGER
                                 01  DD 0107B          PUSHL    #1
                                 29  DD 0107D          PUSHL    #41
                     00000000G   EF  9F 0107F          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 01085          CALLS    #3,PAS$WRITE_CHAR
                     00000000G   EF  9F 0108C 251$:    PUSHAB   PAS$FV_OUTPUT                      ; 3074
        00000000G  EF            01  FB 01092          CALLS    #1,PAS$WRITELN2
                     00000000G   EF  9F 01099          PUSHAB   LOW_SHIFT                          ; 3075
                                 03  DD 0109F          PUSHL    #3
                     00000000G   EF  9F 010A1          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 010A7          CALLS    #3,PAS$WRITE_STRING
                                 01  DD 010AE          PUSHL    #1
                                 20  DD 010B0          PUSHL    #32
                     00000000G   EF  9F 010B2          PUSHAB   PAS$FV_OUTPUT
        00000000G  EF            03  FB 010B8          CALLS    #3,PAS$WRITE_CHAR
```

```
                     FFFF965F  EF   9F 010BF           PUSHAB  C.AMS                           ; 3077
                               0A   DD 010C5           PUSHL   #10
                    00000000G  EF   9F 010C7           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 010CD           CALLS   #3,PAS$WRITE_STRING
                               03   DD 010D4           PUSHL   #3
                    00000084G  EF   DD 010D6           PUSHL   IDATA+132
                    00000000G  EF   9F 010DC           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 010E2           CALLS   #3,PAS$WRITE_INTEGER
                     FFFF9641  EF   9F 010E9           PUSHAB  C.AMT
                               09   DD 010EF           PUSHL   #9
                    00000000G  EF   9F 010F1           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 010F7           CALLS   #3,PAS$WRITE_STRING
00v00000017G  EF               00   E1 010FE           BBC     #0,BDATA+23,253$                ; 3081
                     FFFF9630  EF   9F 01106           PUSHAB  C.AMU                           ; 3083
                               04   DD 0110C           PUSHL   #4
                    00000000G  EF   9F 0110E           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 01114           CALLS   #3,PAS$WRITE_STRING
                               00v  11 0111B           BRB     254$
                     FFFF961D  EF   9F 0111D 253$:     PUSHAB  C.AMV                           ; 3087
                               04   DD 01123           PUSHL   #4
                    00000000G  EF   9F 01125           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 0112B           CALLS   #3,PAS$WRITE_STRING
                 05 00000118G  EF   D1 01132 254$:     CMPL    IDATA+280,#5                    ; 3089
                               00v  13 01139           BEQL    256$
                 04 00000118G  EF   D1 0113B           CMPL    IDATA+280,#4
                               00v  13 01142           BEQL    257$
                     FFFF95FA  EF   9F 01144 256$:     PUSHAB  C.AMW                           ; 3092
                               06   DD 0114A           PUSHL   #6
                    00000000G  EF   9F 0114C           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 01152           CALLS   #3,PAS$WRITE_STRING
                               03   DD 01159           PUSHL   #3
                    00000084G  EF   DD 0115B           PUSHL   IDATA+132
                    00000000G  EF   9F 01161           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 01167           CALLS   #3,PAS$WRITE_INTEGER
                     FFFF95D8  EF   9F 0116E           PUSHAB  C.AMX
                               0D   DD 01174           PUSHL   #13
                    00000000G  EF   9F 01176           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 0117C           CALLS   #3,PAS$WRITE_STRING
                               03   DD 01183           PUSHL   #3
                    000000D8G  EF   DD 01185           PUSHL   IDATA+216
                    00000000G  EF   9F 0118B           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 01191           CALLS   #3,PAS$WRITE_INTEGER
                               01   DD 01198           PUSHL   #1
                               20   DD 0119A           PUSHL   #32
                    00000000G  EF   9F 0119C           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 011A2           CALLS   #3,PAS$WRITE_CHAR
                     FFFF95AD  EF   9F 011A9 257$:     PUSHAB  C.AMY                           ; 3095
                               06   DD 011AF           PUSHL   #6
                    00000000G  EF   9F 011B1           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 011B7           CALLS   #3,PAS$WRITE_STRING
                               03   DD 011BE           PUSHL   #3
                    00000084G  EF   DD 011C0           PUSHL   IDATA+132
                    00000000G  EF   9F 011C6           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF               03   FB 011CC           CALLS   #3,PAS$WRITE_INTEGER
                     FFFF958B  EF   9F 011D3           PUSHAB  C.AMZ
                               0B   DD 011D9           PUSHL   #11
                    00000000G  EF   9F 011DB           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 011E1    CALLS   #3,PAS$WRITE_STRING
                                05   DD 011E8    PUSHL   #5
                  000000CCG     EF   DD 011EA    PUSHL   IDATA+204
                  00000000G     EF   9F 011F0    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 011F6    CALLS   #3,PAS$WRITE_INTEGER
                                01   DD 011FD    PUSHL   #1
                                20   DD 011FF    PUSHL   #32
                  00000000G     EF   9F 01201    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 01207    CALLS   #3,PAS$WRITE_CHAR
                  00000000G     EF   9F 0120E    PUSHAB  PAS$FV_OUTPUT                     ; 3098
   00000000G  EF                01   FB 01214    CALLS   #1,PAS$WRITELN2
                  00000000G     EF   9F 0121B    PUSHAB  LOW_SHIFT                         ; 3099
                                03   DD 01221    PUSHL   #3
                  00000000G     EF   9F 01223    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 01229    CALLS   #3,PAS$WRITE_STRING
                                01   DD 01230    PUSHL   #1
                                20   DD 01232    PUSHL   #32
                  00000000G     EF   9F 01234    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 0123A    CALLS   #3,PAS$WRITE_CHAR
              02  000000F8G     EF   D1 01241    CMPL    IDATA+248,#2                      ; 3101
                                03   14 01248    BGTR    .+3
                              0000V  31 0124A    BRW     259$
                  FFFF951D      EF   9F 0124D    PUSHAB  C.ANA                             ; 3105
                                15   DD 01253    PUSHL   #21
                  00000000G     EF   9F 01255    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 0125B    CALLS   #3,PAS$WRITE_STRING
                                03   DD 01262    PUSHL   #3
50 00000024G  EF  000043C8      8F   45 01264    MULF3   #^F100.0,RDATA+36,R0
              7E                50   4A 01270    CVTFL   R0,-(SP)
                  00000000G     EF   9F 01273    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 01279    CALLS   #3,PAS$WRITE_INTEGER
                  FFFF9500      EF   9F 01280    PUSHAB  C.ANB
                                02   DD 01286    PUSHL   #2
                  00000000G     EF   9F 01288    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 0128E    CALLS   #3,PAS$WRITE_STRING
                  FFFF94ED      EF   9F 01295    PUSHAB  C.ANC                             ; 3107
                                15   DD 0129B    PUSHL   #21
                  00000000G     EF   9F 0129D    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 012A3    CALLS   #3,PAS$WRITE_STRING
                                03   DD 012AA    PUSHL   #3
50 00000020G  EF  000043C8      8F   45 012AC    MULF3   #^F100.0,RDATA+32,R0
              7E                50   4A 012B8    CVTFL   R0,-(SP)
                  00000000G     EF   9F 012BB    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 012C1    CALLS   #3,PAS$WRITE_INTEGER
                  FFFF94D0      EF   9F 012C8    PUSHAB  C.AND
                                02   DD 012CE    PUSHL   #2
                  00000000G     EF   9F 012D0    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 012D6    CALLS   #3,PAS$WRITE_STRING
                  FFFF94BD      EF   9F 012DD    PUSHAB  C.ANE                             ; 3109
                                15   DD 012E3    PUSHL   #21
                  00000000G     EF   9F 012E5    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 012EB    CALLS   #3,PAS$WRITE_STRING
                                03   DD 012F2    PUSHL   #3
50 00000028G  EF  000043C8      8F   45 012F4    MULF3   #^F100.0,RDATA+40,R0
              7E                50   4A 01300    CVTFL   R0,-(SP)
                  00000000G     EF   9F 01303    PUSHAB  PAS$FV_OUTPUT
   00000000G  EF                03   FB 01309    CALLS   #3,PAS$WRITE_INTEGER
```

```
                    FFFF94A0   EF    9F 01310          PUSHAB  C.ANF
                               02    DD 01316          PUSHL   #2
                    00000000G  EF    9F 01318          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 0131E          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF    9F 01325          PUSHAB  PAS$FV_OUTPUT                          ; 3112
    00000000G  EF              01    FB 0132B          CALLS   #1,PAS$WRITELN2
                    00000000G  EF    9F 01332          PUSHAB  LOW_SHIFT                              ; 3113
                               03    DD 01338          PUSHL   #3
                    00000000G  EF    9F 0133A          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 01340          CALLS   #3,PAS$WRITE_STRING
                               01    DD 01347          PUSHL   #1
                               20    DD 01349          PUSHL   #32
                    00000000G  EF    9F 0134B          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 01351          CALLS   #3,PAS$WRITE_CHAR
               05   00000118G  EF    D1 01358  259$:   CMPL    IDATA+280,#5                           ; 3117
                              00V    13 0135F          BEQL    261$
                    00000118G  EF    D5 01361          TSTL    IDATA+280
                              00V    13 01367          BEQL    262$
                    FFFF9449   EF    9F 01369  261$:   PUSHAB  C.ANG                                  ; 3120
                               15    DD 0136F          PUSHL   #21
                    00000000G  EF    9F 01371          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 01377          CALLS   #3,PAS$WRITE_STRING
                               03    DD 0137E          PUSHL   #3
                    000000ACG  EF    DD 01380          PUSHL   IDATA+172
                    00000000G  EF    9F 01386          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 0138C          CALLS   #3,PAS$WRITE_INTEGER
                    FFFF9435   EF    9F 01393          PUSHAB  C.ANH
                               02    DD 01399          PUSHL   #2
                    00000000G  EF    9F 0139B          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 013A1          CALLS   #3,PAS$WRITE_STRING
                    FFFF9422   EF    9F 013A8  262$:   PUSHAB  C.ANI                                  ; 3122
                               11    DD 013AE          PUSHL   #17
                    00000000G  EF    9F 013B0          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 013B6          CALLS   #3,PAS$WRITE_STRING
 00V00000000G  EF              00    E1 013BD          BBC     #0,VARIABLE_RECORDS,264$               ; 3124
                    FFFF9419   EF    9F 013C5          PUSHAB  C.ANJ                                  ; 3126
                               09    DD 013CB          PUSHL   #9
                    00000000G  EF    9F 013CD          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 013D3          CALLS   #3,PAS$WRITE_STRING
                              00V    11 013DA          BRB     265$
                    FFFF940E   EF    9F 013DC  264$:   PUSHAB  C.ANK                                  ; 3130
                               09    DD 013E2          PUSHL   #9
                    00000000G  EF    9F 013E4          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 013EA          CALLS   #3,PAS$WRITE_STRING
               05   00000118G  EF    D1 013F1  265$:   CMPL    IDATA+280,#5                           ; 3132
                              00V    13 013F3          BEQL    267$
               01   00000118G  EF    D1 013FA          CMPL    IDATA+280,#1
                              00V    13 01401          BEQL    271$
                    FFFF93F3   EF    9F 01403  267$:   PUSHAB  C.ANL                                  ; 3137
                               03    DD 01409          PUSHL   #3
                    00000000G  EF    9F 0140B          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 01411          CALLS   #3,PAS$WRITE_STRING
 00V00000000G  EF              00    E1 01418          BBC     #0,VARIABLE_RECORDS,269$               ; 3139
                    FFFF93DA   EF    9F 01420          PUSHAB  C.ANM                                  ; 3141
                               11    DD 01426          PUSHL   #17
                    00000000G  EF    9F 01428          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF              03    FB 0142E          CALLS   #3,PAS$WRITE_STRING
```

```
                                      00V 11 01435        BRB     270$
                           FFFF93D7    EF 9F 01437 269$:  PUSHAB  C.ANN                             ; 3145
                                       11 DD 0143D        PUSHL   #17
                          00000000G    EF 9F 0143F        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 01445        CALLS   #3,PAS$WRITE_STRING
                                       05 DD 0144C 270$:  PUSHL   #5                                ; 3147
                          000000E8G    EF DD 0144E        PUSHL   IDATA+232
                          00000000G    EF 9F 01454        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 0145A        CALLS   #3,PAS$WRITE_INTEGER
                                       01 DD 01461        PUSHL   #1
                                       20 DD 01463        PUSHL   #32
                          00000000G    EF 9F 01465        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 0146B        CALLS   #3,PAS$WRITE_CHAR
                          00000000G    EF 9F 01472 271$:  PUSHAB  PAS$FV_OUTPUT                     ; 3152
            00000000G  EF              01 FB 01478        CALLS   #1,PAS$WRITELN2
                          00000000G    EF 9F 0147F        PUSHAB  LOW_SHIFT                         ; 3153
                                       03 DD 01485        PUSHL   #3
                          00000000G    EF 9F 01487        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 0148D        CALLS   #3,PAS$WRITE_STRING
                                       01 DD 01494        PUSHL   #1
                                       20 DD 01496        PUSHL   #32
                          00000000G    EF 9F 01498        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 0149E        CALLS   #3,PAS$WRITE_CHAR
                           FFFF937D    EF 9F 014A5        PUSHAB  C.ANO                             ; 3155
                                       0F DD 014AB        PUSHL   #15
                          00000000G    EF 9F 014AD        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 014B3        CALLS   #3,PAS$WRITE_STRING
          02           00 000000E0G    EF CF 014BA        CASEL   IDATA+224,#0,#2                   ; 3157
                                    0000V    014C2        .DISPL  272$
                                    0000V    014C4        .DISPL  273$
                                    0000V    014C6        .DISPL  274$
                                      00V 11 014C8        BRB     275$
                           FFFF9368    EF 9F 014CA 272$:  PUSHAB  C.ANP                             ; 3159
                                       0B DD 014D0        PUSHL   #11
                          00000000G    EF 9F 014D2        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 014D8        CALLS   #3,PAS$WRITE_STRING
                                      00V 11 014DF        BRB     276$
                           FFFF935D    EF 9F 014E1 273$:  PUSHAB  C.ANQ                             ; 3160
                                       0B DD 014E7        PUSHL   #11
                          00000000G    EF 9F 014E9        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 014EF        CALLS   #3,PAS$WRITE_STRING
                                      00V 11 014F6        BRB     276$
                           FFFF9352    EF 9F 014F8 274$:  PUSHAB  C.ANR                             ; 3161
                                       0B DD 014FE        PUSHL   #11
                          00000000G    EF 9F 01500        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 01506        CALLS   #3,PAS$WRITE_STRING
                                      00V 11 0150D        BRB     276$
                                             0150F 275$:
                       05 00000118G    EF D1 0150F 276$:  CMPL    IDATA+280,#5                      ; 3169
                                      00V 13 01516        BEQL    278$
                       02 00000118G    EF D1 01518        CMPL    IDATA+280,#2
                                      00V 13 0151F        BEQL    279$
                           FFFF9335    EF 9F 01521 278$:  PUSHAB  C.ANS                             ; 3172
                                       10 DD 01527        PUSHL   #16
                          00000000G    EF 9F 01529        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF              03 FB 0152F        CALLS   #3,PAS$WRITE_STRING
                                       09 DD 01536        PUSHL   #9
```

```
                                     000000C0G  EF   DD 01538         PUSHL   IDATA+192
                                     00000000G  EF   9F 0153E         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 01544         CALLS   #3,PAS$WRITE_INTEGER
                                                01   DD 0154B         PUSHL   #1
                                                20   DD 0154D         PUSHL   #32
                                     00000000G  EF   9F 0154F         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 01555         CALLS   #3,PAS$WRITE_CHAR
                                  05 00000118G  EF   D1 0155C 279$:   CMPL    IDATA+280,#5                  ; 3174
                                                00V  13 01563         BEQL    281$
                                  03 00000118G  EF   D1 01565         CMPL    IDATA+280,#3
                                                00V  13 0156C         BEQL    282$
                                     FFFF92F8   EF   9F 0156E 281$:   PUSHAB  C.ANT                         ; 3177
                                                10   DD 01574         PUSHL   #16
                                     00000000G  EF   9F 01576         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 0157C         CALLS   #3,PAS$WRITE_STRING
                                                09   DD 01583         PUSHL   #9
                                     00000088G  EF   DD 01585         PUSHL   IDATA+136
                                     00000000G  EF   9F 0158B         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 01591         CALLS   #3,PAS$WRITE_INTEGER
                                                01   DD 01598         PUSHL   #1
                                                20   DD 0159A         PUSHL   #32
                                     00000000G  EF   9F 0159C         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 015A2         CALLS   #3,PAS$WRITE_CHAR
                    00V00000000G   EF           00   E1 015A9 282$:   BBC     #0,REGIS,284$                 ; 3182
                                     FFFF92C5   EF   9F 015B1         PUSHAB  C.ANU                         ; 3184
                                                04   DD 015B7         PUSHL   #4
                                     00000000G  EF   9F 015B9         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 015BF         CALLS   #3,PAS$WRITE_STRING
                                     00000000G  EF   9F 015C6         PUSHAB  CRLF
                                                02   DD 015CC         PUSHL   #2
                                     00000000G  EF   9F 015CE         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 015D4         CALLS   #3,PAS$WRITE_STRING
                                     00000000G  EF   9F 015DB         PUSHAB  CRLF
                                                02   DD 015E1         PUSHL   #2
                                     00000000G  EF   9F 015E3         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           03   FB 015E9         CALLS   #3,PAS$WRITE_STRING
                                     00000000G  EF   9F 015F0         PUSHAB  PAS$FV_OUTPUT
                       00000000G   EF           01   FB 015F6         CALLS   #1,PAS$WRITELN2
                                     00000000G  EF   9F 015FD 284$:   PUSHAB  PAS$FV_OUTPUT                 ; 3186
                       00000000G   EF           01   FB 01603         CALLS   #1,PAS$WRITELN2
                                  03 000000F8G  EF   D1 0160A         CMPL    IDATA+248,#3                  ; 3191
                                                00V  18 01611         BGEQ    287$
                                     00000000G  EF   9F 01613         PUSHAB  PAS$FV_OUTPUT                 ; 3193
                       0C000000G   EF           01   FB 01619         CALLS   #1,PAS$WRITELN2
                                                00V  11 01620 287$:   BRB     289$
                                                        01622 288$:
                                  50            5C   90 01622 289$:   MOVB    PRE_PROCESS,R0                ; 3205
                                                     04 01625         RET

; Routine Size: 5670 bytes,    Routine Base: $CODE + 083FC

                                                        00000 VERIFY_PROCESS:                               ; 3250
                                                   003C 00000         .WORD   ^M<R2,R3,R4,R5>
                                  5C            01   90 00002         MOVB    #1,VERIFY_PROCESS             ; 3257
                    3C            0B 00000000G  EF   CF 00005         CASEL   QTAB_OFFSET,#11,#60           ; 3259
                                              0000V     0000D         .DISPL  1$
                                              0000V     0000F         .DISPL  1$
```

```
0000V     00011      .DISPL  1$
0000V     00013      .DISPL  1$
0000V     00015      .DISPL  1$
007A      00017      .DISPL  122
007A      00019      .DISPL  122
007A      0001B      .DISPL  122
007A      0001D      .DISPL  122
007A      0001F      .DISPL  122
007A      00021      .DISPL  122
007A      00023      .DISPL  122
007A      00025      .DISPL  122
007A      00027      .DISPL  122
007A      00029      .DISPL  122
007A      0002B      .DISPL  122
007A      0002D      .DISPL  122
007A      0002F      .DISPL  122
007A      00031      .DISPL  122
007A      00033      .DISPL  122
007A      00035      .DISPL  122
007A      00037      .DISPL  122
007A      00039      .DISPL  122
007A      0003B      .DISPL  122
007A      0003D      .DISPL  122
007A      0003F      .DISPL  122
007A      00041      .DISPL  122
007A      00043      .DISPL  122
007A      00045      .DISPL  122
007A      00047      .DISPL  122
007A      00049      .DISPL  122
0000V     0004B      .DISPL  16$
0000V     0004D      .DISPL  11$
0000V     0004F      .DISPL  11$
0000V     00051      .DISPL  11$
007A      00053      .DISPL  122
007A      00055      .DISPL  122
007A      00057      .DISPL  122
007A      00059      .DISPL  122
007A      0005B      .DISPL  122
007A      0005D      .DISPL  122
007A      0005F      .DISPL  122
007A      00061      .DISPL  122
007A      00063      .DISPL  122
007A      00065      .DISPL  122
007A      00067      .DISPL  122
007A      00069      .DISPL  122
007A      0006B      .DISPL  122
007A      0006D      .DISPL  122
007A      0006F      .DISPL  122
007A      00071      .DISPL  122
007A      00073      .DISPL  122
007A      00075      .DISPL  122
0000V     00077      .DISPL  51$
007A      00079      .DISPL  122
007A      0007B      .DISPL  122
007A      0007D      .DISPL  122
007A      0007F      .DISPL  122
007A      00081      .DISPL  122
```

```
                                                  0000V    00083        .DISPL  45$
                                                  0000V    00085        .DISPL  57$
                                                  0000V 31 00087        BRW     93$
                                     50 00000000G  EF   D0 0008A 1$:    MOVL    QTAB_OFFSET,R0                              ; 3269
                                       50 FFFFFFB0GEF40 7E 00091        MOVAQ   SDATA-80[R0],R0
                                                     60 B5 00099        TSTW    (R0)
                                                    00V 12 0009B        BNEQ    3$
                                     51 00000000G  EF   D0 0009D        MOVL    QTAB_OFFSET,R1                              ; 3273
                                          FFFFFFF9GEF41 94 000A4        CLRB    BDATA-7[R1]
                                                  0000V 31 000AB        BRW     94$
00000000G   EF           60           10             00 ED 000AE 3$:    CMPZV   #0,#16,(R0),MAX_STRING_ANSWER_LENGTH        ; 3281
                                                    00V 15 000B7        BLEQ    8$
                        00V00000000G  EF             00 E1 000B9        BBC     #0,OPTIMIZING,6$                            ; 3287
                                     60 00000000G  EF   B0 000C1        MOVW    MAX_STRING_ANSWER_LENGTH,(R0)               ; 3291
                                     51 00000000G  EF   D0 000C8        MOVL    QTAB_OFFSET,R1                              ; 3293
                           FFFFFFF9GEF41             01 90 000CF        MOVB    #1,BDATA-7[R1]
                                                  0000V 31 000D7        BRW     94$
                                                     50 DD 000DA 6$:    PUSHL   R0                                          ; 3301
                           00000000G  EF             01 FB 000DC        CALLS   #1,STR$FREE1_DX
                                                     5C 94 000E3        CLRB    VERIFY_PROCESS                              ; 3302
                                                  0000V 31 000E5        BRW     94$
                                     50 00000000G  EF   D0 000E8 8$:    MOVL    QTAB_OFFSET,R0                              ; 3310
                           FFFFFFF9GEF40             01 90 000EF        MOVB    #1,BDATA-7[R0]
                                                  0000V 31 000F7        BRW     94$
                                     50 00000000G  EF   D0 000FA 11$:   MOVL    QTAB_OFFSET,R0                              ; 3320
                                       50 00000000GEF40 DE 00101        MOVAL   IDATA[R0],R0
                                     32              60 D1 00109        CMPL    (R0),#50
                                                    00V 18 0010C        BGEQ    15$
                                     60              32 D0 0010E        MOVL    #50,(R0)                                    ; 3324
                        00V00000000G  EF             00 E0 00111        BBS     #0,AUTO_TUNE,14$                            ; 3326
                                        00000000G  EF   9F 00119        PUSHAB  SHIFT                                       ; 3330
                                                     04 DD 0011F        PUSHL   #4
                                        00000000G  EF   9F 00121        PUSHAB  PAS$FV_OUTPUT
                           00000000G  EF             03 FB 00127        CALLS   #3,PAS$WRITE_STRING
                                        FFFF9126   EF   9F 0012E        PUSHAB  C.ANV
                                                     1B DD 00134        PUSHL   #27
                                        00000000G  EF   9F 00136        PUSHAB  PAS$FV_OUTPUT
                           00000000G  EF             03 FB 0013C        CALLS   #3,PAS$WRITE_STRING
                                        00000000G  EF   9F 00143        PUSHAB  PAS$FV_OUTPUT
                           00000000G  EF             01 FB 00149        CALLS   #1,PAS$WRITELN2
                                        00004140   8F   DF 00150        PUSHAF  #^F3.0                                      ; 3331
                           00000000G  EF             01 FB 00156        CALLS   #1,LIB$WAIT
                                                           0015D 14$:
                                                  0000V 31 0015D 15$:   BRW     94$
                                     05 00000118G  EF   D1 00160 16$:   CMPL    IDATA+280,#5                                ; 3344
                                                    00V 13 00167        BEQL    31$
                                        00000118G  EF   D5 00169        TSTL    IDATA+280                                   ; 3346
                                                    00V 12 0016F        BNEQ    19$
                                     2B 00000000G  EF   D1 00171        CMPL    INPUT_VALUE,#43
                                                    00V 13 00178        BEQL    29$
                                     02 00000118G  EF   D1 0017A 19$:   CMPL    IDATA+280,#2
                                                    00V 12 00181        BNEQ    21$
                                     30 00000000G  EF   D1 00183        CMPL    INPUT_VALUE,#48
                                                    00V 13 0018A        BEQL    29$
                                     03 00000118G  EF   D1 0018C 21$:   CMPL    IDATA+280,#3
                                                    00V 12 00193        BNEQ    23$
                                     22 00000000G  EF   D1 00195        CMPL    INPUT_VALUE,#34
                                     00V   13 0019C          BEQL     29$
                 01 00000118G        EF    D1 0019E 23$:     CMPL     IDATA+280,#1
                                     00V   12 001A5          BNEQ     25$
                 3A 00000000G        EF    D1 001A7          CMPL     INPUT_VALUE,#58
                                     00V   13 001AE          BEQL     29$
                 04 00000118G        EF    D1 001B0 25$:     CMPL     IDATA+280,#4
                                     00V   12 001B7          BNEQ     27$
                 36 00000000G        EF    D1 001B9          CMPL     INPUT_VALUE,#54
                                     00V   13 001C0          BEQL     29$
       00000100  8F 000000DCG        EF    D1 001C2 27$:     CMPL     IDATA+220,#256
                                     00V   1E 001CD          BGEQU    28$
     00VFFFF909B EF 000000DCG        EF    E0 001CF          BBS      IDATA+220,C.ANW,31$
                 36 00000000G        EF    D1 001DB 28$:     CMPL     INPUT_VALUE,#54
                                     00V   12 001E2          BNEQ     31$
                                     5C    94 001E4 29$:     CLRB     VERIFY_PROCESS                          ; 3368
                    00000084G        EF    D5 001E6 31$:     TSTL     IDATA+132                               ; 3374
                                     00V   13 001EC          BEQL     34$
       00000100  8F 00000000G        EF    D1 001EE          CMPL     INPUT_VALUE,#256
                                     00V   1E 001F9          BGEQU    34$
     00VFFFF908F EF 00000000G        EF    E1 001FB          BBC      INPUT_VALUE,C.ANX,34$
                                     5C    94 00207          CLRB     VERIFY_PROCESS                          ; 3379
                 03 000000F8G        EF    D1 00209 34$:     CMPL     IDATA+248,#3                            ; 3381
                                     00V   18 00210          BGEQ     37$
       00000100  8F 00000000G        EF    D1 00212          CMPL     INPUT_VALUE,#256
                                     00V   1E 0021D          BGEQU    37$
     00VFFFF908B EF 00000000G        EF    E1 0021F          BBC      INPUT_VALUE,C.ANY,37$
                                     5C    94 0022B          CLRB     VERIFY_PROCESS                          ; 3386
                 01 000000C0G        EF    D1 0022D 37$:     CMPL     IDATA+192,#1                            ; 3388
                                     00V   18 00234          BGEQ     40$
                 38 00000000G        EF    D1 00236          CMPL     INPUT_VALUE,#56
                                     00V   12 0023D          BNEQ     40$
                                     5C    94 0023F          CLRB     VERIFY_PROCESS                          ; 3391
                 01 000000C0G        EF    D1 00241 40$:     CMPL     IDATA+192,#1                            ; 3393
                                     00V   18 00248          BGEQ     44$
                 2B 00000000G        EF    D1 0024A          CMPL     INPUT_VALUE,#43
                                     00V   12 00251          BNEQ     44$
    00V00000000G EF                  00    E0 00253          BBS      #0,AUTO_TUNE,44$
                    00000000G        EF    9F 0025B          PUSHAB   SHIFT                                   ; 3403
                                     04    DD 00261          PUSHL    #4
                    00000000G        EF    9F 00263          PUSHAB   PAS$FV_OUTPUT
       00000000G EF                  03    FB 00269          CALLS    #3,PAS$WRITE_STRING
                    00000000G        EF    9F 00270          PUSHAB   ANSI_REVERSE
                                     04    DD 00276          PUSHL    #4
                    00000000G        EF    9F 00278          PUSHAB   PAS$FV_OUTPUT
       00000000G EF                  03    FB 0027E          CALLS    #3,PAS$WRITE_STRING
                    FFFF904B         EF    9F 00285          PUSHAB   C.ANZ
                                     35    DD 0028B          PUSHL    #53
                    00000000G        EF    9F 0028D          PUSHAB   PAS$FV_OUTPUT
       00000000G EF                  03    FB 00293          CALLS    #3,PAS$WRITE_STRING
                    00000000G        EF    9F 0029A          PUSHAB   ANSI_RESET
                                     04    DD 002A0          PUSHL    #4
                    00000000G        EF    9F 002A2          PUSHAB   PAS$FV_OUTPUT
       00000000G EF                  03    FB 002A8          CALLS    #3,PAS$WRITE_STRING
                    00000000G        EF    9F 002AF          PUSHAB   PAS$FV_OUTPUT
       00000000G EF                  01    FB 002B5          CALLS    #1,PAS$WRITELN2
                    00004140         8F    DF 002BC          PUSHAF   #^F3.0                                  ; 3406
       00000000G EF                  01    FB 002C2          CALLS    #1,LIB$WAIT
```

```
                                       0000V 31 002C9 44$:   BRW     94$
                             00000084G    EF D5 002CC 45$:   TSTL    IDATA+132                                ; 3419
                                         00V 13 002D2        BEQL    50$
                          01 00000000G    EF D1 002D4        CMPL    INPUT_VALUE,#1
                                         00V 13 002DB        BEQL    49$
                          02 00000000G    EF D1 002DD        CMPL    INPUT_VALUE,#2
                                         00V 13 002E4        BEQL    49$
                          03 00000000G    EF D1 002E6        CMPL    INPUT_VALUE,#3
                                         00V 12 002ED        BNEQ    50$
                                          5C 94 002EF 49$:   CLRB    VERIFY_PROCESS                           ; 3431
                                       0000V 31 002F1 50$:   BRW     94$
               00000100G  EF 00000000G    EF D0 002F4 51$:   MOVL    INPUT_VALUE,IDATA+256                    ; 3439
            00V00000000G  EF              00 E1 002FF        BBC     #0,ISAM_ORG,53$                          ; 3445
                00000100  8F 00000100G    EF D1 00307        CMPL    IDATA+256,#256
                                         00V 1E 00312        BGEQU   55$
             00VFFFF8FEE  EF 00000100G    EF E1 00314        BBC     IDATA+256,C.AOA,55$
                          03 00000108G    EF D1 00320 53$:   CMPL    IDATA+264,#3
                                          03 13 00327        BEQL    .+3
                                       0000V 31 00329        BRW     94$
                00000100  8F 00000100G    EF D1 0032C        CMPL    IDATA+256,#256
                                          03 1F 00337        BLSSU   .+3
                                       0000V 31 00339        BRW     94$
             03 FFFF8FE6  EF 00000100G    EF E0 0033C        BBS     IDATA+256,C.AOB,.+3
                                       0000V 31 00348        BRW     94$
                                          5C 94 0034B 55$:   CLRB    VERIFY_PROCESS                           ; 3459
                                       0000V 31 0034D        BRW     94$
                             00000000G    EF 94 00350 57$:   CLRB    TEST                                     ; 3467
               00000019G  EF 00000000G    EF 90 00356        MOVB    INPUT_VALUE,TEST+25                      ; 3468
               0000001AG  EF 00000000G    EF D0 00361        MOVL    INPUT_NUMBER,TEST+26                     ; 3469
               00000000G  EF 00000000G    EF D0 0036C        MOVL    INPUT_NUMBER,DEFAULT_PRINUM              ; 3470
               00000000G  EF 00000019G    EF 90 00377        MOVB    TEST+25,ACTIVE_PRIMARY                   ; 3471
               00000000G  EF 00000000G    EF 90 00382        MOVB    ACTIVE_PRIMARY,DEFAULT_PRIMARY           ; 3472
            50 00000000G  EF              19 C5 0038D        MULL3   #25,QTAB_OFFSET,R0                       ; 3473
 FFFFFEF2GEF40 00000000G  EF              04 28 00395        MOVC3   #4,INPUT_VALUE,QTAB-270[R0]
                          05 00000019G    EF 91 003A2        CMPB    TEST+25,#5                               ; 3475
                                         00V 13 003A9        BEQL    59$
                          0B 00000019G    EF 91 003AB        CMPB    TEST+25,#11
                                          03 13 003B2        BEQL    .+3
                                       0000V 31 003B4        BRW     78$
0000001AG  EF    FE   8F  08              00 ED 003B7 59$:   CMPZV   #0,#8,#^XFE,TEST+26                      ; 3483
                                         00V 18 003C1        BGEQ    61$
                                          5C 94 003C3        CLRB    VERIFY_PROCESS                           ; 3485
                                    01    8F 9F 003C5 61$:   PUSHAB  #1                                       ; 3487
               00000000G  EF              01 FB 003C8        CALLS   #1,SCAN_DEFINITION
            00V00000000G  EF              00 E1 003CF        BBC     #0,FOUND_AREA,65$                        ; 3489
                          05 00000019G    EF 91 003D7        CMPB    TEST+25,#5
                                         00V 12 003DE        BNEQ    65$
            50 0000001AG  EF 00000000G    EF C3 003E0        SUBL3   HIGH_AREA,TEST+26,R0
                          01              50 D1 003EC        CMPL    R0,#1
                                         00V 15 003EF        BLEQ    65$
                                          5C 94 003F1        CLRB    VERIFY_PROCESS                           ; 3497
            00V00000000G  EF              00 E1 003F3 65$:   BBC     #0,FOUND_KEY,69$                         ; 3499
                          0B 00000019G    EF 91 003FB        CMPB    TEST+25,#11
                                         00V 12 00402        BNEQ    69$
            50 0000001AG  EF 00000000G    EF C3 00404        SUBL3   HIGH_KEY,TEST+26,R0
                          01              50 D1 00410        CMPL    R0,#1
                                         00V 15 00413        BLEQ    69$
```

```
                                     5C    94 00415         CLRB     VERIFY_PROCESS                                 ; 3507
             00v00000000G  EF        00    E0 00417 69$:    BBS      #0,FOUND_AREA,73$                              ; 3509
                           05 00000019G    EF    91 0041F   CMPB     TEST+25,#5
                                     00v   12 00426         BNEQ     73$
                              0000001AG    EF    D5 00428   TSTL     TEST+26
                                     00v   15 0042E         BLEQ     73$
                                     5C    94 00430         CLRB     VERIFY_PROCESS                                 ; 3517
             00v00000000G  EF        00    E0 00432 73$:    BBS      #0,FOUND_KEY,79$                               ; 3519
                           0B 00000019G    EF    91 0043A   CMPB     TEST+25,#11
                                     00v   12 00441         BNEQ     79$
                              0000001AG    EF    D5 00443   TSTL     TEST+26
                                     00v   15 00449         BLEQ     79$
                                     5C    94 0044B         CLRB     VERIFY_PROCESS                                 ; 3527
                                     00v   11 0044D         BRB      79$
                              0000001AG    EF    D4 0044F 78$:  CLRL TEST+26                                        ; 3533
             00v00000000G  EF        00    E0 00455 79$:    BBS      #0,FULL_CHOICE,94$                             ; 3538
                00000000G  EF 00000000G    EF    D0 0045D   MOVL     DEF_HEAD,DEF_CURRENT                           ; 3542
                                     00    8F    9F 00468 81$:  PUSHAB #0                                           ; 3546
                              00000000G    EF    9F 0046B   PUSHAB   TEST
                00000000G  EF        02    FB 00471         CALLS    #2,CURRENT_EQ_TEST
                           00v       50    E8 00478         BLBS     R0,83$
                00000000G  EF        00    FB 0047B         CALLS    #0,INCR_CURRENT                                ; 3548
                                     00    8F    9F 00482 83$:  PUSHAB #0
                              00000000G    EF    9F 00485   PUSHAB   TEST
                00000000G  EF        02    FB 0048B         CALLS    #2,CURRENT_EQ_TEST
                                     51    94 00492         CLRB     R1
                           52 00000000G    EF    D0 00494   MOVL     DEF_CURRENT,R2
                                     01    A2    D5 0049B   TSTL     1(R2)
                                     00v   12 0049E         BNEQ     85$
                                     51    96 004A0         INCB     R1
                           51        50    88 004A2 85$:    BISB2    R0,R1
                           C0        51    E9 004A5         BLBC     R1,81$
                              00000000G    EF    D5 004A8   TSTL     DEF_CURRENT                                    ; 3552
                                     00v   13 004AE         BEQL     90$
                                     00    8F    9F 004B0   PUSHAB   #0                                             ; 3556
                              00000000G    EF    9F 004B3   PUSHAB   TEST
                00000000G  EF        02    FB 004B9         CALLS    #2,CURRENT_EQ_TEST
                           00v       50    E8 004C0         BLBS     R0,94$
                                     5C    94 004C3         CLRB     VERIFY_PROCESS                                 ; 3558
                                     00v   11 004C5         BRB      94$
                                     5C    94 004C7 90$:    CLRB     VERIFY_PROCESS                                 ; 3564
                                     00v   11 004C9         BRB      94$
                                             004CB 93$:
                           50        5C    90 004CB 94$:    MOVB     VERIFY_PROCESS,R0                              ; 3576
                                           04 004CE         RET

; Routine Size: 1231 bytes,    Routine Base: $CODE + 09A22

                                             00000 POST_PROCESS:                                                    ; 3621
                                      003C   00000          .WORD    ^M<R2,R3,R4,R5>
                           5E        04    C2 00002         SUBL2    #4,SP
                           5C        01    90 00005         MOVB     #1,POST_PROCESS                                ; 3631
        00000042    8F     05 00000000G    EF    CF 00008   CASEL    QTAB_OFFSET,#5,#66                             ; 3633
                                   0000v     00014          .DISPL   8$
                                   0086      00016          .DISPL   134
                                   0086      00018          .DISPL   134
                                   0086      0001A          .DISPL   134
                                   0086      0001C      .DISPL  134
                                   0086      0001E      .DISPL  134
                                   0086      00020      .DISPL  134
                                   0086      00022      .DISPL  134
                                   0086      00024      .DISPL  134
                                   0000V     00026      .DISPL  6$
                                   0086      00028      .DISPL  134
                                   0000V     0002A      .DISPL  16$
                                   0000V     0002C      .DISPL  16$
                                   0000V     0002E      .DISPL  16$
                                   0000V     00030      .DISPL  1$
                                   0000V     00032      .DISPL  1$
                                   0000V     00034      .DISPL  1$
                                   0000V     00036      .DISPL  1$
                                   0000V     00038      .DISPL  1$
                                   0000V     0003A      .DISPL  1$
                                   0000V     0003C      .DISPL  1$
                                   0000V     0003E      .DISPL  1$
                                   0000V     00040      .DISPL  1$
                                   0086      00042      .DISPL  134
                                   0086      00044      .DISPL  134
                                   0000V     00046      .DISPL  1$
                                   0000V     00048      .DISPL  20$
                                   0086      0004A      .DISPL  134
                                   0086      0004C      .DISPL  134
                                   0086      0004E      .DISPL  134
                                   0000V     00050      .DISPL  48$
                                   0000V     00052      .DISPL  49$
                                   0086      00054      .DISPL  134
                                   0000V     00056      .DISPL  5$
                                   0000V     00058      .DISPL  4$
                                   0000V     0005A      .DISPL  41$
                                   0000V     0005C      .DISPL  56$
                                   0000V     0005E      .DISPL  4$
                                   0000V     00060      .DISPL  55$
                                   0000V     00062      .DISPL  48$
                                   0000V     00064      .DISPL  49$
                                   0000V     00066      .DISPL  26$
                                   0000V     00068      .DISPL  4$
                                   0086      0006A      .DISPL  134
                                   0000V     0006C      .DISPL  48$
                                   0000V     0006E      .DISPL  49$
                                   0000V     00070      .DISPL  37$
                                   0000V     00072      .DISPL  48$
                                   0000V     00074      .DISPL  49$
                                   0000V     00076      .DISPL  38$
                                   0000V     00078      .DISPL  4$
                                   0000V     0007A      .DISPL  4$
                                   0086      0007C      .DISPL  134
                                   0086      0007E      .DISPL  134
                                   0000V     00080      .DISPL  42$
                                   0000V     00082      .DISPL  5$
                                   0000V     00084      .DISPL  36$
                                   0000V     00086      .DISPL  45$
                                   0000V     00088      .DISPL  10$
                                   0000V     0008A      .DISPL  57$
                                   0000V     0008C      .DISPL  4$
```

```
                                        0000V     0008E         .DISPL  13$
                                        0000V     00090         .DISPL  4$
                                        0000V     00092         .DISPL  48$
                                        0000V     00094         .DISPL  49$
                                        0000V     00096         .DISPL  5$
                                        0000V     00098         .DISPL  61$
                                        0000V  31 0009A         BRW     67$
                                           50  94 0009D 1$:     CLRB    R0                                          ; 3651
                            01 00000000G   EF  D1 0009F         CMPL    INPUT_VALUE,#1
                                          00V  12 000A6         BNEQ    3$
                                           50  96 000A8         INCB    R0
                 00000000G  EF             50  90 000AA 3$:     MOVB    R0,QUERY_FLAG
                            50 00000000G   EF  D0 000B1         MOVL    QTAB_OFFSET,R0                              ; 3652
                 FFFFFFF9GEF40 00000000G   EF  90 000B8         MOVB    QUERY_FLAG,BDATA-7[R0]
                                        0000V  31 000C4         BRW     68$
                            50 00000000G   EF  D0 000C7 4$:     MOVL    QTAB_OFFSET,R0                              ; 3667
                 00000000GEF40 00000000G   EF  D0 000CE         MOVL    INPUT_VALUE,IDATA[R0]
                                        0000V  31 000DA         BRW     68$
                            50 00000000G   EF  D0 000DD 5$:     MOVL    QTAB_OFFSET,R0                              ; 3678
                 00000000GEF40 00000000G   EF  D0 000E4         MOVL    INPUT_VALUE,IDATA[R0]
              50 00000000G  EF             19  C5 000F0         MULL3   #25,QTAB_OFFSET,R0                          ; 3679
   FFFFFEF2GEF40 00000000G  EF             04  28 000F8         MOVC3   #4,INPUT_VALUE,QTAB-270[R0]
                                        0000V  31 00105         BRW     68$
                 00000000G  EF 00000000G   EF  7D 00108 6$:     MOVQ    NULL_STRING,ANALYSIS_FILENAME_DESC          ; 3687
                               00000000G   EF  9F 00113         PUSHAB  ANALYSIS_FILENAME_DESC                      ; 3688
                               00000020G   EF  9F 00119         PUSHAB  SDATA+32
                 00000000G  EF             02  FB 0011F         CALLS   #2,LIB$SCOPY_DXDX
                 00000000G  EF             01  90 00126         MOVB    #1,ANALYSIS_SPECIFIED                       ; 3689
                                        0000V  31 0012D         BRW     68$
                 00000000G  EF 00000000G   EF  7D 00130 8$:     MOVQ    NULL_STRING,OUTPUT_FILENAME_DESC            ; 3697
                               00000000G   EF  9F 0013B         PUSHAB  OUTPUT_FILENAME_DESC                        ; 3698
                               00000028G   EF  9F 00141         PUSHAB  SDATA+40
                 00000000G  EF             02  FB 00147         CALLS   #2,LIB$SCOPY_DXDX
                                        0000V  31 0014E         BRW     68$
                            50 00000000G   EF  D0 00151 10$:    MOVL    QTAB_OFFSET,R0                              ; 3706
                 00000000GEF40 00000000G   EF  D0 00158         MOVL    INPUT_VALUE,IDATA[R0]
                                           50  94 00164         CLRB    R0                                          ; 3707
                               00000000G   EF  D5 00166         TSTL    INPUT_VALUE
                                          00V  12 0016C         BNEQ    12$
                                           50  96 0016E         INCB    R0
                 00000000G  EF             50  90 00170 12$:    MOVB    R0,FULL_PROMPT
                                        0000V  31 00177         BRW     68$
                            50 00000000G   EF  D0 0017A 13$:    MOVL    QTAB_OFFSET,R0                              ; 3715
                 00000000GEF40 00000000G   EF  D0 00181         MOVL    INPUT_VALUE,IDATA[R0]
                                           50  94 0018D         CLRB    R0                                          ; 3717
                 00000100   8F 00000000G   EF  D1 0018F         CMPL    INPUT_VALUE,#256
                                          00V  1E 0019A         BGEQU   15$
              00VFFFF8CD7   EF 00000000G   EF  E1 0019C         BBC     INPUT_VALUE,C.AOC,15$
                                           50  96 001A8         INCB    R0
                 00000000G  EF             50  90 001AA 15$:    MOVB    R0,ISAM_ORG
                                        0000V  31 001B1         BRW     68$
                            50 00000000G   EF  D0 001B4 16$:    MOVL    QTAB_OFFSET,R0                              ; 3735
                            50 00000000GEF40   DE 001BB         MOVAL   IDATA[R0],R0
                            51             60  D0 001C3         MOVL    (R0),R1
                                          00V  18 001C6         BGEQ    17$
                            51             51  CE 001C8         MNEGL   R1,R1
51        63  8F            07             00  ED 001CB 17$:    CMPZV   #0,#7,#^X63,R1
```

```
                                         00V  18 001D1        BGEQ     19$
                                          60  D4 001D3        CLRL     (R0)                                    ; 3737
                           50 00000000G   EF  D0 001D5 19$:   MOVL     QTAB_OFFSET,R0                          ; 3739
                           51 00000000G   EF  D0 001DC        MOVL     QTAB_OFFSET,R1
                FFFFFFE0GEF40  00000000GEF41  4E 001E3        CVTLF    IDATA[R1],RDATA-32[R0]
                           50 00000000G   EF  D0 001F0        MOVL     QTAB_OFFSET,R0                          ; 3740
                           50  FFFFFFE0GEF40  DE 001F7        MOVAL    RDATA-32[R0],R0
                           60 000043C8    8F  46 001FF        DIVF2    #^F100.0,(R0)
                                       0000V  31 00206        BRW      68$
            03 00000000G   EF             00  E1 00209 20$:   BBC      #0,AUTO_TUNE,.+3                        ; 3748
                                       0000V  31 00211        BRW      68$
            00V00000000G   EF             00  E1 00214        BBC      #0,REGIS,23$                            ; 3755
                              FFFF8C7D    EF  9F 0021C        PUSHAB   C.AOD                                   ; 3757
                                          0B  DD 00222        PUSHL    #11
                              00000000G   EF  9F 00224        PUSHAB   PAS$FV_OUTPUT
               00000000G   EF             03  FB 0022A        CALLS    #3,PAS$WRITE_STRING
                              00000000G   EF  9F 00231        PUSHAB   PAS$FV_OUTPUT
               00000000G   EF             01  FB 00237        CALLS    #1,PAS$WRITELN2
                              00000000G   EF  9F 0023E 23$:   PUSHAB   COL_ONE                                 ; 3759
                              00000000G   EF  9F 00244        PUSHAB   LINE_ONE
               00000000G   EF             02  FB 0024A        CALLS    #2,LIB$ERASE_PAGE
                                       0000V  31 00251        BRW      68$
            00V00000000G   EF             00  E0 00254 26$:   BBS      #0,GLOBAL_SET,33$                       ; 3773
                              00000000G   EF  D4 0025C        CLRL     PRIMARY_INDEX_BUCKETS                   ; 3784
                           50             01  D0 00262        MOVL     #1,R0                                   ; 3786
                           51             50  D0 00265 28$:   MOVL     R0,I
                           52  00000000GEF41  DE 00268        MOVAL    INIT_PRIMARY_BUCKETS[I],R2              ; 3790
               00000200    8F             62  D1 00270        CMPL     (R2),#512
                                         00V  15 00277        BLEQ     30$
                           62      0200   8F  3C 00279        MOVZWL   #512,(R2)                               ; 3792
                           53  00000000GEF41  DE 0027E 30$:   MOVAL    ADDED_PRIMARY_BUCKETS[I],R3             ; 3794
               00000200    8F             63  D1 00286        CMPL     (R3),#512
                                         00V  15 0028D        BLEQ     32$
                           63      0200   8F  3C 0028F        MOVZWL   #512,(R3)                               ; 3796
           52 00000000G    EF             62  C1 00294 32$:   ADDL3    (R2),PRIMARY_INDEX_BUCKETS,R2           ; 3798
00000000G   EF             63             52  C1 0029C        ADDL3    R2,(R3),PRIMARY_INDEX_BUCKETS
            BD             50             1F  F3 002A4        AOBLEQ   #31,R0,28$
                           50 00000000G   EF  D0 002A8        MOVL     PRIMARY_INDEX_BUCKETS,R0                ; 3808
                           51 000000F0G   EF  D0 002AF        MOVL     IDATA+240,R1
               000000B8G   EF        04 A140  9E 002B6        MOVAB    4(R1)[R0],IDATA+184
               00007FFF    8F 000000B8G   EF  D1 002BF 33$:   CMPL     IDATA+184,#32767                        ; 3816
                                          03  14 002CA        BGTR     .+3
                                       0000V  31 002CC        BRW      68$
               000000B8G   EF      7FFF   8F  3C 002CF        MOVZWL   #32767,IDATA+184                        ; 3818
                                       0000V  31 002D8        BRW      68$
                           51 00000000G   EF  D0 002DB 36$:   MOVL     QTAB_OFFSET,R1                          ; 3824
               000000C0G   EF  00000000GEF41  D0 002E2        MOVL     IDATA[R1],IDATA+192
                                       0000V  31 002EE        BRW      68$
                           51 00000000G   EF  D0 002F1 37$:   MOVL     SEGMENT_NUMBER,R1                       ; 3828
                           50 00000000G   EF  D0 002F8        MOVL     QTAB_OFFSET,R0
                00000000GEF41  00000000GEF40  D0 002FF        MOVL     IDATA[R0],SEGMENT_POSITION[R1]
                                       0000V  31 0030C        BRW      68$
                           51 00000000G   EF  D0 0030F 38$:   MOVL     SEGMENT_NUMBER,R1                       ; 3834
                                          50  94 00316        CLRB     R0
                              000000D8G   EF  D5 00318        TSTL     IDATA+216
                                         00V  15 0031E        BLEQ     40$
                                          50  96 00320        INCB     R0
```

```
        00000000GEF41             50  90 00322 40$:   MOVB    R0,SEGMENT_WANTED[R1]
                   51 00000000G   EF  D0 0032A        MOVL    SEGMENT_NUMBER,R1                              ; 3835
                   50 00000000G   EF  D0 00331        MOVL    QTAB_OFFSET,R0
        00000000GEF41 00000000GEF40   D0 00338        MOVL    IDATA[R0],SEGMENT_LENGTH[R1]
                               0000V  31 00345        BRW     68$
                   51 00000000G   EF  D0 00348 41$:   MOVL    QTAB_OFFSET,R1                                 ; 3841
        00000000G   EF 00000000GEF41  C2 0034F        SUBL2   IDATA[R1],CUR_MAX_REC
                               0000V  31 0035B        BRW     68$
                   51 00000000G   EF  D0 0035E 42$:   MOVL    QTAB_OFFSET,R1                                 ; 3845
                   51 00000000GEF41   DE 00365        MOVAL   IDATA[R1],R1
                                  61  D5 0036D        TSTL    (R1)
                                  03  19 0036F        BLSS    .+3
                               0000V  31 00371        BRW     68$
                                  61  D4 00374        CLRL    (R1)                                           ; 3847
                               0000V  31 00376        BRW     68$
                   03 000000F8G   EF  D1 00379 45$:   CMPL    IDATA+248,#3                                   ; 3853
                                  03  19 00380        BLSS    .+3
                               0000V  31 00382        BRW     68$
                      00000024G   EF  D4 00385        CLRF    RDATA+36                                       ; 3857
                      00000020G   EF  D4 0038B        CLRF    RDATA+32                                       ; 3858
                      00000028G   EF  D4 00391        CLRF    RDATA+40                                       ; 3859
                               0000V  31 00397        BRW     68$
                   51 00000000G   EF  D0 0039A 48$:   MOVL    QTAB_OFFSET,R1                                 ; 3873
        00000014G   EF 00000000GEF41  D0 003A1        MOVL    IDATA[R1],IDATA+20
     51 00000000G   EF            19  C5 003AD        MULL3   #25,QTAB_OFFSET,R1                             ; 3874
                   50 00000000G   EF  D0 003B5        MOVL    QTAB_OFFSET,R0
               FC   AD 00000000GEF40  DE 003BC        MOVAL   IDATA[R0],-4(FP)
FFFFFF0FGEF41  FC   BD            04  28 003C5        MOVC3   #4,@-4(FP),QTAB-241[R1]
                               0000V  31 003CF        BRW     68$
                   50 00000000G   EF  D0 003D2 49$:   MOVL    QTAB_OFFSET,R0                                 ; 3886
        00000010G   EF 00000000GEF40  D0 003D9        MOVL    IDATA[R0],IDATA+16
     21             24 00000000G  EF  CF 003E5        CASEL   QTAB_OFFSET,#36,#33                            ; 3888
                               0000V     003ED        .DISPL  52$
                               0044      003EF        .DISPL  68
                               0044      003F1        .DISPL  68
                               0044      003F3        .DISPL  68
                               0044      003F5        .DISPL  68
                               0044      003F7        .DISPL  68
                               0044      003F9        .DISPL  68
                               0044      003FB        .DISPL  68
                               0044      003FD        .DISPL  68
                               0000V     003FF        .DISPL  50$
                               0044      00401        .DISPL  68
                               0044      00403        .DISPL  68
                               0044      00405        .DISPL  68
                               0044      00407        .DISPL  68
                               0000V     00409        .DISPL  52$
                               0044      0040B        .DISPL  68
                               0044      0040D        .DISPL  68
                               0000V     0040F        .DISPL  52$
                               0044      00411        .DISPL  68
                               0044      00413        .DISPL  68
                               0044      00415        .DISPL  68
                               0044      00417        .DISPL  68
                               0044      00419        .DISPL  68
                               0044      0041B        .DISPL  68
                               0044      0041D        .DISPL  68
                      0044    0041F        .DISPL  68
                      0044    00421        .DISPL  68
                      0044    00423        .DISPL  68
                      0044    00425        .DISPL  68
                      0044    00427        .DISPL  68
                      0044    00429        .DISPL  68
                      0044    0042B        .DISPL  68
                      0044    0042D        .DISPL  68
                      0000V   0042F        .DISPL  51$
                       00V 11 00431        BRB     53$
             00000064  8F  DF 00433 50$:   PUSHAL  #100                                   ; 3890
             00000032  8F  DF 00439        PUSHAL  #50
     7FC1 CF           02  FB 0043F        CALLS   #2,SPREAD_LOW_HIGH
                       00V 11 00444        BRB     54$
             00000000G EF  9F 00446 51$:   PUSHAB  CUR_MAX_REC                            ; 3892
             00000001  8F  DF 0044C        PUSHAL  #1
     7FC1 CF           02  FB 00452        CALLS   #2,SPREAD_LOW_HIGH
                       00V 11 00457        BRB     54$
             7FFFFFFE  8F  DF 00459 52$:   PUSHAL  #2147483646                            ; 3896
             00000001  8F  DF 0045F        PUSHAL  #1
     7FC1 CF           02  FB 00465        CALLS   #2,SPREAD_LOW_HIGH
                       00V 11 0046A        BRB     54$
                              0046C 53$:
                       00V 11 0046C 54$:   BRB     68$
00000000G EF 000000ACG EF  D0 0046E 55$:   MOVL    IDATA+172,IDATA                        ; 3908
                       00V 11 00479        BRB     68$
          50 00000000G EF  D0 0047B 56$:   MOVL    QTAB_OFFSET,R0                         ; 3914
00000000GEF40 00000000G EF  D0 00482        MOVL    INPUT_VALUE,IDATA[R0]
00000108G EF           07  D0 0048E        MOVL    #7,IDATA+264                           ; 3919
             00000000G EF  94 00495        CLRB    MAIN_LEVEL                             ; 3924
                       00V 11 0049B        BRB     68$
                       50  94 0049D 57$:   CLRB    R0                                     ; 3939
          0D 00000100G EF  D1 0049F        CMPL    IDATA+256,#13
                       00V 13 004A6        BEQL    60$
          0C 00000100G EF  D1 004A8        CMPL    IDATA+256,#12
                       00V 13 004AF        BEQL    60$
                       50  96 004B1        INCB    R0
00000000G EF           50  90 004B3 60$:   MOVB    R0,VARIABLE_RECORDS
                       00V 11 004BA        BRB     68$
          05 00000000G EF  91 004BC 61$:   CMPB    ACTIVE_PRIMARY,#5                      ; 3951
                       00V 12 004C3        BNEQ    63$
00000000G EF 00000000G EF  D0 004C5        MOVL    INPUT_NUMBER,ACTIVE_AREA               ; 3953
                       00V 11 004D0        BRB     68$
          0B 00000000G EF  91 004D2 63$:   CMPB    ACTIVE_PRIMARY,#11                     ; 3955
                       00V 12 004D9        BNEQ    68$
00000084G EF 00000000G EF  D0 004DB        MOVL    INPUT_NUMBER,IDATA+132                 ; 3957
                       00V 11 004E6        BRB     68$
                              004E8 67$:
          50           5C  90 004E8 68$:   MOVB    POST_PROCESS,R0                        ; 3967
                           04 004EB        RET

; Routine Size: 1260 bytes,    Routine Base: $CODE + 09EF1

                         0000 00000        .ENTRY  QUERY,^M<>                             ; 4016
          5C        04 BC  D0 00002        MOVL    @4(R12),OFFSET
00000000G EF           5C  D0 00006        MOVL    OFFSET,QTAB_OFFSET                     ; 4260
     83FC CF           00  FB 0000D        CALLS   #0,PRE_PROCESS                         ; 4262
```

```
                                         00V            50   E9 00012          BLBC     R0,4$
                                     00V  AF            00   FB 00015 2$:      CALLS    #0,THE_QUESTION                              ; 4271
                        F4 00000000G      EF            00   E0 00019          BBS      #0,SYS$INPUT_ERROR,2$
                                             00000000G  EF   9F 00021          PUSHAB   INPUT_DESC                                   ; 4275
                           00000000G      EF            01   FB 00027          CALLS    #1,STR$FREE1_DX
                                   9EF1   CF            00   FB 0002E 4$:      CALLS    #0,POST_PROCESS                              ; 4282
                                         00V            50   E9 00033          BLBC     R0,6$
                                         50  00000000G  EF   D0 00036          MOVL     QTAB_OFFSET,R0                               ; 4284
                              FFFFFFF5GEF40             01   90 0003D          MOVB     #1,VDATA-11[R0]
                                         50  00000000G  EF   90 00045 6$:      MOVB     QUERY_FLAG,QUERY                             ; 4289
                                                             04 0004C          RET                                                   ; 4291

; Routine Size: 77 bytes,     Routine Base: $CODE + 0A3DD

                                                                00000 THE_QUESTION:                                                  ; 4018
                                                           000C 00000          .WORD    ^M<R2,R3>
                                         5E             10   C2 00002          SUBL2    #16,SP
                                                   F8   AD   D4 00005          CLRL     -8(FP)
                                         6D  00000000G  EF   9E 00008          MOVAB    PAS$HANDLER,(FP)
                                         29  00000000G  EF   D1 0000F          CMPL     QTAB_OFFSET,#41                              ; 4025
                                                       00V   12 00016          BNEQ     2$
                           00000000G      EF            01   90 00018          MOVB     #1,MAIN_LEVEL                                ; 4029
                                             00000000G  EF   94 0001F          CLRB     MAIN_CTRLZ                                   ; 4030
                                             00000000G  EF   94 00025          CLRB     CONTROL_ZEE_TYPED                            ; 4031
                                             00000000G  EF   94 0002B 2$:      CLRB     SYS$INPUT_ERROR                              ; 4038
                                      F8  AD 00000000G  EF   9E 00031          MOVAB    SYS$INPUT_COND_HANDLER,FP-8                  ; 4039
                        00V00000000G      EF            00   E0 00039          BBS      #0,AUTO_TUNE,6$                              ; 4041
                        00V00000000G      EF            00   E1 00041          BBC      #0,TEMP_FULL_PROMPT,5$                       ; 4045
                                   3E9F   CF            00   FB 00049          CALLS    #0,WRITE_HELP                                ; 4047
                                   49C2   CF            00   FB 0004E 5$:      CALLS    #0,WRITE_QUESTION                            ; 4049
                        5C 00000000G      EF            19   C5 00053 6$:      MULL3    #25,QTAB_OFFSET,R12                          ; 4053
          50 FFFFFEEDGEF4C                20            00   EE 0005B          EXTV     #0,#32,QTAB-275[R12],R0
                        06                00            50   CF 00065          CASEL    R0,#0,#6
                                                      0000V     00069          .DISPL   7$
                                                      0000V     0006B          .DISPL   26$
                                                      0000V     0006D          .DISPL   46$
                                                      0000V     0006F          .DISPL   26$
                                                      0000V     00071          .DISPL   46$
                                                      0000V     00073          .DISPL   47$
                                                      0000V     00075          .DISPL   56$
                                                      0000V  31 00077          BRW      57$
                                         50  00000000G  EF   D0 0007A 7$:      MOVL     QTAB_OFFSET,R0                               ; 4059
                              FFFFFFB0GEF40  00000000G  EF   7D 00081          MOVQ     NULL_STRING,SDATA-80[R0]
                        00V00000000G      EF            00   E1 0008D          BBC      #0,TAKE_DEFAULTS,9$                          ; 4061
                                             00000104G  EF   D5 00095          TSTL     IDATA+260
                                                       00V   13 0009B          BEQL     10$
                        00V00000000G      EF            00   E1 0009D 9$:      BBC      #0,AUTO_TUNE,13$
                        03 00000000G      EF            00   E1 000A5 10$:     BBC      #0,AUTO_TUNE,.+3                             ; 4073
                                                      0000V  31 000AD          BRW      18$
                                             33334033   8F   DF 000B0          PUSHAF   #^F0.7                                       ; 4075
                           00000000G      EF            01   FB 000B6          CALLS    #1,LIB$WAIT
                                                      0000V  31 000BD          BRW      18$
                        00V00000000G      EF            30   E0 000C0 13$:     BBS      #48,PAS$FV_INPUT,14$                         ; 4083
                                             00000000G  EF   9F 000C8          PUSHAB   PAS$FV_INPUT
                           00000000G      EF            01   FB 000CE          CALLS    #1,PAS$LOOK_AHEAD
                        00V00000000G      EF            31   E0 000D5 14$:     BBS      #49,PAS$FV_INPUT,16$
                                             00000000G  EF   9F 000DD          PUSHAB   PAS$FV_INPUT                                 ; 4087
```

```
      00000000G  EF              01    FB 000E3          CALLS    #1,PAS$RESET2
                                 00    DD 000EA          PUSHL    #0                                   ; 4088
                                 00    DD 000EC          PUSHL    #0
                                 00    DD 000EE          PUSHL    #0
                      00B3804B   8F    DD 000F0          PUSHL    #11763787
      00000000G  EF              04    FB 000F6          CALLS    #4,LIB$SIGNAL
                      000000FF   8F    DD 000FD 16$:     PUSHL    #255                                 ; 4092
                     00000000G   EF    9F 00103          PUSHAB   PAS$FV_INPUT
                     00000000G   EF    9F 00109          PUSHAB   TEMP_STRING255
      00000000G  EF              03    FB 0010F          CALLS    #3,PAS$READ_STRING
                     00000000G   EF    9F 00116          PUSHAB   PAS$FV_INPUT
      00000000G  EF              01    FB 0011C          CALLS    #1,PAS$READLN2
             F0  AD   010E00FF   8F    D0 00123          MOVL     #17694975,-16(FP)                    ; 4093
             F4  AD  00000000G   EF    9E 0012B          MOVAB    TEMP_STRING255,-12(FP)
                            F0   AD    9F 00133          PUSHAB   -16(FP)
                 50  00000000G   EF    D0 00136          MOVL     QTAB_OFFSET,R0
                     FFFFFFB0GEF40     7F 0013D          PUSHAQ   SDATA-80[R0]
      00000000G  EF              02    FB 00144          CALLS    #2,STR$TRIM
                     00000000G   EF    9F 0014B          PUSHAB   INPUT_DESC                           ; 4094
                 50  00000000G   EF    D0 00151          MOVL     QTAB_OFFSET,R0
                     FFFFFFB0GEF40     7F 00158          PUSHAQ   SDATA-80[R0]
      00000000G  EF              02    FB 0015F          CALLS    #2,LIB$SCOPY_DXDX
      00000014G  EF  00000004G   EF    D0 00166          MOVL     INPUT_DESC+4,PARAM_BLOCK+20          ; 4095
      00000010G  EF  00000000G   EF    3C 00171          MOVZWL   INPUT_DESC,PARAM_BLOCK+16            ; 4096
    00V00000000G  EF             00    E0 0017C 18$:     BBS      #0,AUTO_TUNE,20$                     ; 4100
                     00000000G   EF    9F 00184          PUSHAB   CRLF                                 ; 4102
                                 02    DD 0018A          PUSHL    #2
                     00000000G   EF    9F 0018C          PUSHAB   PAS$FV_OUTPUT
      00000000G  EF              03    FB 00192          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF    9F 00199          PUSHAB   PAS$FV_OUTPUT
      00000000G  EF              01    FB 0019F          CALLS    #1,PAS$WRITELN2
   03 00000000G  EF              00    E0 001A6 20$:     BBS      #0,JOURNAL_ENABLED,.+3               ; 4108
                             0000V     31 001AE          BRW      58$
                 50  00000000G   EF    D0 001B1          MOVL     QTAB_OFFSET,R0                       ; 4110
                 50  FFFFFFB0GEF40     7E 001B8          MOVAQ    SDATA-80[R0],R0
                                 60    B5 001C0          TSTW     (R0)
                                00V    1B 001C2          BLEQU    23$
                 7E              60    3C 001C4          MOVZWL   (R0),-(SP)                           ; 4112
                                 00    DD 001C7          PUSHL    #0
                 51  00000000G   EF    D0 001C9          MOVL     QTAB_OFFSET,R1
                 51  FFFFFFB4GEF41     7E 001D0          MOVAQ    SDATA-76[R1],R1
                            00   B1    9F 001D8          PUSHAB   @0(R1)
                      000000FF   8F    DD 001DB          PUSHL    #255
                     00000000G   EF    9F 001E1          PUSHAB   JOURNAL_FILE
      00000000G  EF              05    FB 001E7          CALLS    #5,PAS$QRITE_STRING
                     00000000G   EF    9F 001EE          PUSHAB   JOURNAL_FILE
      00000000G  EF              01    FB 001F4          CALLS    #1,PAS$QRITELN2
                             0000V     31 001FB          BRW      58$
                     00000000G   EF    9F 001FE 23$:     PUSHAB   JOURNAL_FILE                         ; 4120
      00000000G  EF              01    FB 00204          CALLS    #1,PAS$QRITELN2
                             0000V     31 0020B          BRW      58$
                     FFFFFEF2GEF4C     9F 0020E 26$:     PUSHAB   QTAB-270[R12]                        ; 4129
                     FFFFFEF1GEF4C     9F 00215          PUSHAB   QTAB-271[R12]
                 50  00000000G   EF    D0 0021C          MOVL     QTAB_OFFSET,R0
                     00000000GEF40     DF 00223          PUSHAL   IDATA[R0]
      00000000G  EF              03    FB 0022A          CALLS    #3,NUMBER_INPUT
                                 50    94 00231          CLRB     R0                                   ; 4138
```

```
                          51 00000000G  EF      D0 00233          MOVL    QTAB_OFFSET,R1
                          51 00000000GEF41      D0 0023A          MOVL    IDATA[R1],R1
                                         00V    13 00242          BEQL    28$
                                          50    96 00244          INCB    R0
                                          52    94 00246 28$:     CLRB    R2
                          39 00000000G  EF      D1 00248          CMPL    QTAB_OFFSET,#57
                                         00V    12 0024F          BNEQ    31$
                          03 00000108G  EF      D1 00251          CMPL    IDATA+264,#3
                                         00V    13 00258          BEQL    31$
                                          52    96 0025A          INCB    R2
                          52              50    8A 0025C 31$:     BICB2   R0,R2
                                          50    94 0025F          CLRB    R0
                 00V00000013G   EF        00    E1 00261          BBC     #0,BDATA+19,36$
                             00000000G  EF      D5 00269          TSTL    SEGMENT_NUMBER
                                         00V    13 0026F          BEQL    36$
                          36 00000000G  EF      D1 00271          CMPL    QTAB_OFFSET,#54
                                         00V    12 00278          BNEQ    36$
                                          51    D5 0027A          TSTL    R1
                                         00V    12 0027C          BNEQ    36$
                                          50    96 0027E          INCB    R0
                          50              52    88 00280 36$:     BISB2   R2,R0
                         00V              50    E8 00283          BLBS    R0,45$
                                          50    94 00286          CLRB    R0                                          ; 4168
                    52 00000000G  EF      19    C5 00288          MULL3   #25,QTAB_OFFSET,R2
   51 FFFFFEF6GEF42               20      00    EC 00290          CMPV    #0,#32,QTAB-266[R2],R1
                                         00V    15 0029A          BLEQ    40$
                                          50    96 0029C          INCB    R0
                                          53    94 0029E 40$:     CLRB    R3
   51 FFFFFEFAGEF42               20      00    EC 002A0          CMPV    #0,#32,QTAB-262[R2],R1
                                         00V    18 002AA          BGEQ    42$
                                          53    96 002AC          INCB    R3
                          53              50    88 002AE 42$:     BISB2   R0,R3
                         00V              53    E9 002B1          BLBC    R3,45$
                                          00    DD 002B4          PUSHL   #0                                          ; 4174
                                          00    DD 002B6          PUSHL   #0
                                          00    DD 002B8          PUSHL   #0
                             00B38038     8F    DD 002BA          PUSHL   #11763768
                 00000000G   EF           04    FB 002C0          CALLS   #4,LIB$SIGNAL
                                       0000V    31 002C7 45$:     BRW     58$
                             FFFFFEF2GEF4C      9F 002CA 46$:     PUSHAB  QTAB-270[R12]                               ; 4185
                             FFFFFEF1GEF4C      9F 002D1          PUSHAB  QTAB-271[R12]
                             FFFFFF02GEF4C      9F 002D8          PUSHAB  QTAB-254[R12]
                             FFFFFEFEGEF4C      9F 002DF          PUSHAB  QTAB-258[R12]
                 00000000G   EF           04    FB 002E6          CALLS   #4,PARSE_INPUT
                                         00V    11 002ED          BRB     58$
                 00V00000000G   EF        00    E0 002EF 47$:     BBS     #0,AUTO_TUNE,58$                            ; 4200
                 00V00000000G   EF        30    E0 002F7          BBS     #48,PAS$FV_INPUT,50$                        ; 4212
                             00000000G  EF      9F 002FF          PUSHAB  PAS$FV_INPUT
                 00000000G   EF           01    FB 00305          CALLS   #1,PAS$LOOK_AHEAD
                 00V00000000G   EF        31    E0 0030C 50$:     BBS     #49,PAS$FV_INPUT,52$
                             00000000G  EF      9F 00314          PUSHAB  PAS$FV_INPUT                                ; 4216
                 00000000G   EF           01    FB 0031A          CALLS   #1,PAS$RESET2
                                          00    DD 00321          PUSHL   #0                                          ; 4217
                                          00    DD 00323          PUSHL   #0
                                          00    DD 00325          PUSHL   #0
                             00B3804B     8F    DD 00327          PUSHL   #11763787
                 00000000G   EF           04    FB 0032D          CALLS   #4,LIB$SIGNAL
```

```
                          00000000G  EF      9F 00334 52$:      PUSHAB  PAS$FV_INPUT                                  ; 4221
              00000000G  EF          01      FB 0033A           CALLS   #1,PAS$READLN2
           00V00000000G  EF          00      E1 00341           BBC     #0,JOURNAL_ENABLED,58$                        ; 4223
                          00000000G  EF      9F 00349           PUSHAB  JOURNAL_FILE                                  ; 4225
              00000000G  EF          01      FB 0034F           CALLS   #1,PAS$WRITELN2
                                     00V     11 00356           BRB     58$
                                     00V     11 00358 56$:      BRB     58$
                                                0035A 57$:
                   9A22  CF          00      FB 0035A 58$:      CALLS   #0,VERIFY_PROCESS                             ; 4244
                         00V         50      E8 0035F           BLBS    R0,60$
                                     00      DD 00362           PUSHL   #0                                            ; 4246
                                     00      DD 00364           PUSHL   #0
                                     00      DD 00366           PUSHL   #0
                          00B38038   8F      DD 00368           PUSHL   #11763768
              00000000G  EF          04      FB 0036E           CALLS   #4,LIB$SIGNAL
                          00000000G  EF      94 00375 60$:      CLRB    TEMP_FULL_PROMPT                              ; 4251
                                     04         0037B           RET                                                   ; 4253

; Routine Size: 892 bytes,    Routine Base: $CODE + 0A42A

                                                00000 ASK_KEY_DUPS:                                                   ; 4340
                                          0000  00000           .WORD   ^M<>
                          0000001E   8F      DF 00002           PUSHAL  #30                                           ; 4344
                   A3DD  CF          01      FB 00008           CALLS   #1,QUERY
                         00V         50      E9 0000D           BLBC    R0,3$
                          0000003B   8F      DF 00010           PUSHAL  #59                                           ; 4346
                   A3DD  CF          01      FB 00016           CALLS   #1,QUERY
                                     00V     11 0001B           BRB     4$
                          000000ECG  EF      D4 0001D 3$:       CLRL    IDATA+236                                     ; 4350
                                     04         00023 4$:       RET                                                   ; 4352

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7A6

                                                00000 ASK_GLOBAL_WANTED:                                              ; 4401
                                          0000  00000           .WORD   ^M<>
                          0000001B   8F      DF 00002           PUSHAL  #27                                           ; 4408
                   A3DD  CF          01      FB 00008           CALLS   #1,QUERY
                         00V         50      E9 0000D           BLBC    R0,3$
                          0000002E   8F      DF 00010           PUSHAL  #46                                           ; 4410
                   A3DD  CF          01      FB 00016           CALLS   #1,QUERY
                                     00V     11 0001B           BRB     4$
                          000000B8G  EF      D4 0001D 3$:       CLRL    IDATA+184                                     ; 4414
                                     04         00023 4$:       RET                                                   ; 4416

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7CA

                                                00000 ASK_KEY_COMP:                                                   ; 4465
                                          0000  00000           .WORD   ^M<>
                          00000013   8F      DF 00002           PUSHAL  #19                                           ; 4472
                   A3DD  CF          01      FB 00008           CALLS   #1,QUERY
                         00V         50      E9 0000D           BLBC    R0,3$
                          00000010   8F      DF 00010           PUSHAL  #16                                           ; 4474
                   A3DD  CF          01      FB 00016           CALLS   #1,QUERY
                                     00V     11 0001B           BRB     4$
                          00000020G  EF      D4 0001D 3$:       CLRF    RDATA+32                                      ; 4478
                                     04         00023 4$:       RET                                                   ; 4480
```

```
; Routine Size: 36 bytes,    Routine Base: $CODE + 0A7EE

                                    00000 ASK_REC_COMP:                                        ; 4529
                               0000 00000       .WORD   ^M<>
                  00000014  8F   DF 00002       PUSHAL  #20                                    ; 4536
        A3DD  CF            01   FB 00008       CALLS   #1,QUERY
             00V            50   E9 0000D       BLBC    R0,3$
                  00000011  8F   DF 00010       PUSHAL  #17                                    ; 4538
        A3DD  CF            01   FB 00016       CALLS   #1,QUERY
                           00V   11 0001B       BRB     4$
                 00000024G  EF   D4 0001D 3$:   CLRF    RDATA+36                               ; 4542
                                 04 00023 4$:   RET                                            ; 4544

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A812

                                    00000 ASK_IDX_COMP:                                        ; 4593
                               0000 00000       .WORD   ^M<>
                  00000015  8F   DF 00002       PUSHAL  #21                                    ; 4600
        A3DD  CF            01   FB 00008       CALLS   #1,QUERY
             00V            50   E9 0000D       BLBC    R0,3$
                  00000012  8F   DF 00010       PUSHAL  #18                                    ; 4602
        A3DD  CF            01   FB 00016       CALLS   #1,QUERY
                           00V   11 0001B       BRB     4$
                 00000028G  EF   D4 0001D 3$:   CLRF    RDATA+40                               ; 4606
                                 04 00023 4$:   RET                                            ; 4608

; Routine Size: 36 bytes,    Routine Base: $CODE + 0A836

                                    00000 ASK_MEAN_RECORD_SIZE:                                ; 4655
                               0000 00000       .WORD   ^M<>
00V00000000G  EF            00   E1 00002       BBC     #0,ISAM_ORG,4$                         ; 4663
00V00000000G  EF            00   E1 0000A       BBC     #0,ISAM_ORG,3$
                 00000084G  EF   D5 00012       TSTL    IDATA+132
                           00V   13 00018       BEQL    4$
00V0000002FG  EF            00   E0 0001A 3$:   BBS     #0,VDATA+47,13$
                  0000003A  8F   DF 00022 4$:   PUSHAL  #58                                    ; 4676
        A3DD  CF            01   FB 00028       CALLS   #1,QUERY
              0F 00000100G  EF   D1 0002D       CMPL    IDATA+256,#15                          ; 4685
                           00V   12 00034       BNEQ    8$
                  00000028  8F   DF 00036       PUSHAL  #40                                    ; 4687
        A3DD  CF            01   FB 0003C       CALLS   #1,QUERY
00V00000000G  EF            00   E1 00041 8$:   BBC     #0,VARIABLE_RECORDS,11$                ; 4689
                  00000039  8F   DF 00049       PUSHAL  #57                                    ; 4691
        A3DD  CF            01   FB 0004F       CALLS   #1,QUERY
                           00V   11 00054       BRB     13$
   000000E4G  EF 000000E8G  EF   D0 00056 11$:  MOVL    IDATA+232,IDATA+228                    ; 4695
                                 04 00061 13$:  RET                                            ; 4699

; Routine Size: 98 bytes,    Routine Base: $CODE + 0A85A

                                    00000 ASK_KEY_SIZE:                                        ; 4747
                               0000 00000       .WORD   ^M<>
00V00000013G  EF            00   E1 00002       BBC     #0,BDATA+19,10$                        ; 4754
                 00000000G  EF   D4 0000A       CLRL    SEGMENT_NUMBER                         ; 4758
                  00000036  8F   DF 00010 2$:   PUSHAL  #54                                    ; 4762
        A3DD  CF            01   FB 00016       CALLS   #1,QUERY
                 00000000G  EF   D6 0001B       INCL    SEGMENT_NUMBER                         ; 4764
```

```
                                   000000D8G   EF     D5 00021          TSTL    IDATA+216
                                               00V    13 00027          BEQL    5$
                                07 00000000G   EF     D1 00029          CMPL    SEGMENT_NUMBER,#7
                                               DE     15 00030          BLEQ    2$
                                   000000D8G   EF     D5 00032 5$:      TSTL    IDATA+216                          ; 4768
                                               00V    12 00038          BNEQ    9$
                                50 00000000G   EF     D0 0003A          MOVL    SEGMENT_NUMBER,R0                  ; 4772
                                07             50     D1 00041          CMPL    R0,#7
                                               00V    14 00044          BGTR    9$
                                51             50     D0 00046 7$:      MOVL    R0,I
                                   00000000GEF41      94 00049          CLRB    SEGMENT_WANTED[I]                  ; 4774
                 F2             50             07     F3 00050          AOBLEQ  #7,R0,7$
                   000000D8G    EF 00000000G   EF     D0 00054 9$:      MOVL    SEGMENT_LENGTH,IDATA+216           ; 4778
                                               00V    11 0005F          BRB     12$
                                   00000036    8F     DF 00061 10$:     PUSHAL  #54                                ; 4784
                      A3DD      CF             01     FB 00067          CALLS   #1,QUERY
                                                      04 0006C 12$:     RET                                        ; 4786

; Routine Size: 109 bytes,    Routine Base: $CODE + 0A8BC

                                                         00000 ASK_KEY_POSITION:                                   ; 4834
                                                    0000 00000          .WORD   ^M<>
                 00V00000013G   EF             00     E1 00002          BBC     #0,BDATA+19,6$                     ; 4838
                                               5C     D4 0000A          CLRL    R12                                ; 4842
                   00000000G    EF             5C     D0 0000C 2$:      MOVL    R12,SEGMENT_NUMBER
                                50 00000000G   EF     D0 00013          MOVL    SEGMENT_NUMBER,R0                  ; 4846
                 00V00000000GEF40              00     E1 0001A          BBC     #0,SEGMENT_WANTED[R0],5$
                                   00000033    8F     DF 00023          PUSHAL  #51                                ; 4848
                      A3DD      CF             01     FB 00029          CALLS   #1,QUERY
                 DA             5C             07     F3 0002E 5$:      AOBLEQ  #7,R12,2$
                   000000CCG    EF 00000000G   EF     D0 00032          MOVL    SEGMENT_POSITION,IDATA+204         ; 4852
                                               00V    11 0003D          BRB     8$
                                   00000033    8F     DF 0003F 6$:      PUSHAL  #51                                ; 4858
                      A3DD      CF             01     FB 00045          CALLS   #1,QUERY
                                                      04 0004A 8$:      RET                                        ; 4860

; Routine Size: 75 bytes,    Routine Base: $CODE + 0A929

                                                         00000 ASK_TEST_SECONDARY:                                 ; 4909
                                                    0000 00000          .WORD   ^M<>
                       00V      AF             00     FB 00002 1$:      CALLS   #0,THE_QUESTION                    ; 6003
                 F4 00000000G   EF             00     E0 00006          BBS     #0,SYS$INPUT_ERROR,1$
                                   00000000G   EF     9F 0000E          PUSHAB  INPUT_DESC                         ; 6007
                   00000000G    EF             01     FB 00014          CALLS   #1,STR$FREE1_DX
                                                      04 0001B          RET                                        ; 6009

; Routine Size: 28 bytes,    Routine Base: $CODE + 0A974

                                                         00000 THE_QUESTION:                                       ; 4911
                                                    0000 00000          .WORD   ^M<>
                                5E             10     C2 00002          SUBL2   #16,SP
                            F8  AD                    D4 00005          CLRL    -8(FP)
                                6D 00000000G   EF     9E 00008          MOVAB   PAS$HANDLER,(FP)
                                   00000000G   EF     D4 0000F          CLRL    EDF$GL_SECNUM                      ; 4918
                                   00000000G   EF     94 00015          CLRB    SYS$INPUT_ERROR                    ; 4919
                        F8      AD 00000000G   EF     9E 0001B          MOVAB   SYS$INPUT_COND_HANDLER,FP-8        ; 4920
                                50 00000000G   EF     9A 00023          MOVZBL  ACTIVE_PRIMARY,R0                  ; 4922
```

```
0E            01            50   8F 0002A         CASEB  R0,#1,#14
                         0000V      0002E         .DISPL 3$
                          001E      00030         .DISPL 30
                         0000V      00032         .DISPL 15$
                         0000V      00034         .DISPL 16$
                         0000V      00036         .DISPL 17$
                         0000V      00038         .DISPL 29$
                         0000V      0003A         .DISPL 41$
                         0000V      0003C         .DISPL 53$
                         0000V      0003E         .DISPL 1$
                         0000V      00040         .DISPL 65$
                         0000V      00042         .DISPL 77$
                         0000V      00044         .DISPL 89$
                         0000V      00046         .DISPL 101$
                         0000V      00048         .DISPL 113$
                         0000V      0004A         .DISPL 2$
                         0000V   31 0004C         BRW    125$
                 00000000G  EF   D4 0004F 1$:     CLRL   INPUT_VALUE                                   ; 4926
                         0000V   31 00055         BRW    126$
                 00000000G  EF   D4 00058 2$:     CLRL   INPUT_VALUE                                   ; 4930
                         0000V   31 0005E         BRW    126$
03 00000000G  EF            00   E0 00061 3$:     BBS    #0,FULL_CHOICE,.+3                            ; 4936
                         0000V   31 00069         BRW    9$
                 00000000   8F   DF 0006C         PUSHAL #0                                            ; 4940
   00000000G  EF            01   FB 00072         CALLS  #1,CLEAR
00V00000000G  EF            00   E0 00079         BBS    #0,FULL_PROMPT,6$                             ; 4942
03 00000000G  EF            00   E0 00081         BBS    #0,TEMP_FULL_PROMPT,.+3
                         0000V   31 00089         BRW    7$
                 00000000G  EF   9F 0008C 6$:     PUSHAB SHIFT                                         ; 4946
                            04   DD 00092         PUSHL  #4
                 00000000G  EF   9F 00094         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 0009A         CALLS  #3,PAS$WRITE_STRING
                 FFFF8365   EF   9F 000A1         PUSHAB C.AOE
                            02   DD 000A7         PUSHL  #2
                 00000000G  EF   9F 000A9         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 000AF         CALLS  #3,PAS$WRITE_STRING
                 00000000G  EF   9F 000B6         PUSHAB ANSI_REVERSE
                            04   DD 000BC         PUSHL  #4
                 00000000G  EF   9F 000BE         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 000C4         CALLS  #3,PAS$WRITE_STRING
                 FFFF833F   EF   9F 000CB         PUSHAB C.AOF
                            0D   DD 000D1         PUSHL  #13
                 00000000G  EF   9F 000D3         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 000D9         CALLS  #3,PAS$WRITE_STRING
                 00000000G  EF   9F 000E0         PUSHAB SEC_ATTR
                            16   DD 000E6         PUSHL  #22
                 00000000G  EF   9F 000E8         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 000EE         CALLS  #3,PAS$WRITE_STRING
                 00000000G  EF   9F 000F5         PUSHAB ANSI_RESET
                            04   DD 000FB         PUSHL  #4
                 00000000G  EF   9F 000FD         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 00103         CALLS  #3,PAS$WRITE_STRING
                 00000000G  EF   9F 0010A         PUSHAB CRLF
                            02   DD 00110         PUSHL  #2
                 00000000G  EF   9F 00112         PUSHAB PAS$FV_OUTPUT
   00000000G  EF            03   FB 00118         CALLS  #3,PAS$WRITE_STRING
                 00000000G  EF   9F 0011F         PUSHAB CRLF_SHIFT
```

```
                             06  DD 00125      PUSHL   #6
               00000000G     EF  9F 00127      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0012D      CALLS   #3,PAS$WRITE_STRING
               FFFF82E6      EF  9F 00134      PUSHAB  C.AOG
                             10  DD 0013A      PUSHL   #16
               00000000G     EF  9F 0013C      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00142      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 00149      PUSHAB  CRLF_SHIFT
                             06  DD 0014F      PUSHL   #6
               00000000G     EF  9F 00151      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00157      CALLS   #3,PAS$WRITE_STRING
               FFFF82CC      EF  9F 0015E      PUSHAB  C.AOH
                             0F  DD 00164      PUSHL   #15
               00000000G     EF  9F 00166      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0016C      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 00173      PUSHAB  CRLF_SHIFT
                             06  DD 00179      PUSHL   #6
               00000000G     EF  9F 0017B      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00181      CALLS   #3,PAS$WRITE_STRING
               FFFF82B2      EF  9F 00188      PUSHAB  C.AOI
                             0C  DD 0018E      PUSHL   #12
               00000000G     EF  9F 00190      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00196      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 0019D      PUSHAB  CRLF_SHIFT
                             06  DD 001A3      PUSHL   #6
               00000000G     EF  9F 001A5      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001AB      CALLS   #3,PAS$WRITE_STRING
               FFFF8294      EF  9F 001B2      PUSHAB  C.AOJ
                             0C  DD 001B8      PUSHL   #12
               00000000G     EF  9F 001BA      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001C0      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 001C7      PUSHAB  CRLF_SHIFT
                             06  DD 001CD      PUSHL   #6
               00000000G     EF  9F 001CF      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001D5      CALLS   #3,PAS$WRITE_STRING
               FFFF8276      EF  9F 001DC      PUSHAB  C.AOK
                             11  DD 001E2      PUSHL   #17
               00000000G     EF  9F 001E4      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001EA      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 001F1      PUSHAB  CRLF_SHIFT
                             06  DD 001F7      PUSHL   #6
               00000000G     EF  9F 001F9      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 001FF      CALLS   #3,PAS$WRITE_STRING
               FFFF8260      EF  9F 00206      PUSHAB  C.AOL
                             10  DD 0020C      PUSHL   #16
               00000000G     EF  9F 0020E      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00214      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 0021B      PUSHAB  CRLF_SHIFT
                             06  DD 00221      PUSHL   #6
               00000000G     EF  9F 00223      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 00229      CALLS   #3,PAS$WRITE_STRING
               FFFF8246      EF  9F 00230      PUSHAB  C.AOM
                             0F  DD 00236      PUSHL   #15
               00000000G     EF  9F 00238      PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0023E      CALLS   #3,PAS$WRITE_STRING
               00000000G     EF  9F 00245      PUSHAB  CRLF
                             02  DD 0024B      PUSHL   #2
```

```
                          00000000G   EF     9F 0024D          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 00253          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 0025A          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                01   FB 00260          CALLS   #1,PAS$WRITELN2
                                   0000V     31 00267          BRW     14$
                          00000000G   EF     9F 0026A 7$:      PUSHAB  SHIFT                                        ; 4969
                                      04     DD 00270          PUSHL   #4
                          00000000G   EF     9F 00272          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 00278          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 0027F          PUSHAB  QUES_HINT
                                      1F     DD 00285          PUSHL   #31
                          00000000G   EF     9F 00287          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 0028D          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 00294          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                01   FB 0029A          CALLS   #1,PAS$WRITELN2
                                   0000V     31 002A1          BRW     14$
                          00000000    8F     DF 002A4 9$:      PUSHAL  #0                                           ; 4977
          00000000G   EF                01   FB 002AA          CALLS   #1,CLEAR
        00V00000000G  EF                00   E0 002B1          BBS     #0,FULL_PROMPT,11$                           ; 4979
       03 00000000G   EF                00   E0 002B9          BBS     #0,TEMP_FULL_PROMPT,.+3
                                   0000V     31 002C1          BRW     12$
                          00000000G   EF     9F 002C4 11$:     PUSHAB  SHIFT                                        ; 4983
                                      04     DD 002CA          PUSHL   #4
                          00000000G   EF     9F 002CC          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 002D2          CALLS   #3,PAS$WRITE_STRING
                          FFFF81AD    EF     9F 002D9          PUSHAB  C.AON
                                      02     DD 002DF          PUSHL   #2
                          00000000G   EF     9F 002E1          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 002E7          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 002EE          PUSHAB  ANSI_REVERSE
                                      04     DD 002F4          PUSHL   #4
                          00000000G   EF     9F 002F6          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 002FC          CALLS   #3,PAS$WRITE_STRING
                          FFFF8187    EF     9F 00303          PUSHAB  C.A00
                                      0F     DD 00309          PUSHL   #15
                          00000000G   EF     9F 0030B          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 00311          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 00318          PUSHAB  SEC_ATTR
                                      16     DD 0031E          PUSHL   #22
                          00000000G   EF     9F 00320          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 00326          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 0032D          PUSHAB  ANSI_RESET
                                      04     DD 00333          PUSHL   #4
                          00000000G   EF     9F 00335          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 0033B          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 00342          PUSHAB  CRLF
                                      02     DD 00348          PUSHL   #2
                          00000000G   EF     9F 0034A          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                03   FB 00350          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF     9F 00357          PUSHAB  PAS$FV_OUTPUT
          00000000G   EF                01   FB 0035D          CALLS   #1,PAS$WRITELN2
                          000000FC    8F     DD 00364          PUSHL   #252                                         ; 4990
                                      07     DD 0036A          PUSHL   #7
                                      04     DD 0036C          PUSHL   #4
                          00000000G   EF     9F 0036E          PUSHAB  SYS$OUTPUT_NAME
                                      0B     DD 00374          PUSHL   #11
                                      01     DD 00376          PUSHL   #1
                          00000000G   EF   9F 00378         PUSHAB  FDL_DEST
        00000000G   EF               07    FB 0037E         CALLS   #7,PAS$OPEN2
                          00000000G   EF   9F 00385         PUSHAB  FDL_DEST                                ; 4992
        00000000G   EF               01    FB 0038B         CALLS   #1,PAS$REWRITE2
                          00000000G   EF   9F 00392         PUSHAB  TEST                                    ; 4994
        00000000G   EF               01    FB 00398         CALLS   #1,SHOW_PRIMARY_SECTION
                          00000000G   EF   9F 0039F         PUSHAB  FDL_DEST                                ; 4996
        00000000G   EF               01    FB 003A5         CALLS   #1,PAS$CLOSE2
                                    00V    11 003AC         BRB     14$
                          00000000G   EF   9F 003AE  12$:   PUSHAB  SHIFT                                   ; 5002
                                     04    DD 003B4         PUSHL   #4
                          00000000G   EF   9F 003B6         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 003BC         CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF   9F 003C3         PUSHAB  QUES_HINT
                                     1F    DD 003C9         PUSHL   #31
                          00000000G   EF   9F 003CB         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 003D1         CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF   9F 003D8         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               01    FB 003DE         CALLS   #1,PAS$WRITELN2
                          00000000G   EF   9F 003E5  14$:   PUSHAB  SHIFT                                   ; 5006
                                     04    DD 003EB         PUSHL   #4
                          00000000G   EF   9F 003ED         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 003F3         CALLS   #3,PAS$WRITE_STRING
                          FFFF80A0    EF   9F 003FA         PUSHAB  C.AOP
                                     21    DD 00400         PUSHL   #33
                          00000000G   EF   9F 00402         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 00408         CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF   9F 0040F         PUSHAB  ANSI_REVERSE
                                     04    DD 00415         PUSHL   #4
                          00000000G   EF   9F 00417         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 0041D         CALLS   #3,PAS$WRITE_STRING
                          FFFF809A    EF   9F 00424         PUSHAB  C.AOQ
                                     03    DD 0042A         PUSHL   #3
                          00000000G   EF   9F 0042C         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 00432         CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF   9F 00439         PUSHAB  ANSI_RESET
                                     04    DD 0043F         PUSHL   #4
                          00000000G   EF   9F 00441         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 00447         CALLS   #3,PAS$WRITE_STRING
                          FFFF8074    EF   9F 0044E         PUSHAB  C.AOR
                                     03    DD 00454         PUSHL   #3
                          00000000G   EF   9F 00456         PUSHAB  PAS$FV_OUTPUT
        00000000G   EF               03    FB 0045C         CALLS   #3,PAS$WRITE_STRING
                          00000000    8F   DF 00463         PUSHAL  #0                                      ; 5008
                                00    8F   9F 00469         PUSHAB  #0
              F4    AD    00000000G   EF   9E 0046C         MOVAB   EDF$AB_ACCESS_TABLE_STA,-12(FP)
                                F4    AD   9F 00474         PUSHAB  -12(FP)
              F0    AD    00000000G   EF   9E 00477         MOVAB   EDF$AB_ACCESS_TABLE_KEY,-16(FP)
                                F0    AD   9F 0047F         PUSHAB  -16(FP)
        00000000G   EF               04    FB 00482         CALLS   #4,PARSE_INPUT
                                  0000V    31 00489         BRW     126$
                          00000000G   EF   D4 0048C  15$:   CLRL    INPUT_VALUE                             ; 5099
                                  0000V    31 00492         BRW     126$
                          00000000G   EF   D4 00495  16$:   CLRL    INPUT_VALUE                             ; 5103
                                  0000V    31 0049B         BRW     126$
     03 00000000G   EF               00    E0 0049E  17$:   BBS     #0,FULL_CHOICE,.+3                      ; 5109
                                  0000V    31 004A6         BRW     23$
```

```
                            00000000   8F   DF 004A9          PUSHAL   #0                                        ; 5113
         00000000G   EF                01   FB 004AF          CALLS    #1,CLEAR
       00V00000000G  EF                00   E0 004B6          BBS      #0,FULL_PROMPT,20$                        ; 5115
       03 00000000G  EF                00   E0 004BE          BBS      #0,TEMP_FULL_PROMPT,.+3
                                    0000V   31 004C6          BRW      21$
                            00000000G  EF   9F 004C9  20$:    PUSHAB   SHIFT                                     ; 5119
                                       04   DD 004CF          PUSHL    #4
                            00000000G  EF   9F 004D1          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 004D7          CALLS    #3,PAS$WRITE_STRING
                            FFFF7FE8   EF   9F 004DE          PUSHAB   C.AOS
                                       02   DD 004E4          PUSHL    #2
                            00000000G  EF   9F 004E6          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 004EC          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 004F3          PUSHAB   ANSI_REVERSE
                                       04   DD 004F9          PUSHL    #4
                            00000000G  EF   9F 004FB          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 00501          CALLS    #3,PAS$WRITE_STRING
                            FFFF7FC2   EF   9F 00508          PUSHAB   C.AOT
                                       0C   DD 0050E          PUSHL    #12
                            00000000G  EF   9F 00510          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 00516          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 0051D          PUSHAB   ACTIVE_AREA
         00000000G   EF                01   FB 00523          CALLS    #1,NUM_LEN
                                       50   DD 0052A          PUSHL    R0
                            00000000G  EF   DD 0052C          PUSHL    ACTIVE_AREA
                            00000000G  EF   9F 00532          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 00538          CALLS    #3,PAS$WRITE_INTEGER
                            00000000G  EF   9F 0053F          PUSHAB   SEC_ATTR
                                       16   DD 00545          PUSHL    #22
                            00000000G  EF   9F 00547          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 0054D          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 00554          PUSHAB   ANSI_RESET
                                       04   DD 0055A          PUSHL    #4
                            00000000G  EF   9F 0055C          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 00562          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 00569          PUSHAB   CRLF
                                       02   DD 0056F          PUSHL    #2
                            00000000G  EF   9F 00571          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 00577          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 0057E          PUSHAB   CRLF_SHIFT
                                       06   DD 00584          PUSHL    #6
                            00000000G  EF   9F 00586          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 0058C          CALLS    #3,PAS$WRITE_STRING
                            FFFF7F43   EF   9F 00593          PUSHAB   C.AOU
                                       12   DD 00599          PUSHL    #18
                            00000000G  EF   9F 0059B          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 005A1          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 005A8          PUSHAB   CRLF_SHIFT
                                       06   DD 005AE          PUSHL    #6
                            00000000G  EF   9F 005B0          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 005B6          CALLS    #3,PAS$WRITE_STRING
                            FFFF7F2D   EF   9F 005BD          PUSHAB   C.AOV
                                       1A   DD 005C3          PUSHL    #26
                            00000000G  EF   9F 005C5          PUSHAB   PAS$FV_OUTPUT
         00000000G   EF                03   FB 005CB          CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF   9F 005D2          PUSHAB   CRLF_SHIFT
                                       06   DD 005D8          PUSHL    #6
```

```
                          00000000G   EF    9F  005DA          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  005E0          CALLS   #3,PAS$WRITE_STRING
                          FFFF7F1F    EF    9F  005E7          PUSHAB  C.AOW
                                      13    DD  005ED          PUSHL   #19
                          00000000G   EF    9F  005EF          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  005F5          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  005FC          PUSHAB  CRLF_SHIFT
                                      06    DD  00602          PUSHL   #6
                          00000000G   EF    9F  00604          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  0060A          CALLS   #3,PAS$WRITE_STRING
                          FFFF7F09    EF    9F  00611          PUSHAB  C.AOX
                                      12    DD  00617          PUSHL   #18
                          00000000G   EF    9F  00619          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  0061F          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  00626          PUSHAB  CRLF_SHIFT
                                      06    DD  0062C          PUSHL   #6
                          00000000G   EF    9F  0062E          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  00634          CALLS   #3,PAS$WRITE_STRING
                          FFFF7EF3    EF    9F  0063B          PUSHAB  C.AOY
                                      18    DD  00641          PUSHL   #24
                          00000000G   EF    9F  00643          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  00649          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  00650          PUSHAB  CRLF_SHIFT
                                      06    DD  00656          PUSHL   #6
                          00000000G   EF    9F  00658          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  0065E          CALLS   #3,PAS$WRITE_STRING
                          FFFF7EE1    EF    9F  00665          PUSHAB  C.AOZ
                                      11    DD  0066B          PUSHL   #17
                          00000000G   EF    9F  0066D          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  00673          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  0067A          PUSHAB  CRLF_SHIFT
                                      06    DD  00680          PUSHL   #6
                          00000000G   EF    9F  00682          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  00688          CALLS   #3,PAS$WRITE_STRING
                          FFFF7ECB    EF    9F  0068F          PUSHAB  C.APA
                                      1C    DD  00695          PUSHL   #28
                          00000000G   EF    9F  00697          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  0069D          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  006A4          PUSHAB  CRLF_SHIFT
                                      06    DD  006AA          PUSHL   #6
                          00000000G   EF    9F  006AC          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  006B2          CALLS   #3,PAS$WRITE_STRING
                          FFFF7EBD    EF    9F  006B9          PUSHAB  C.APB
                                      0F    DD  006BF          PUSHL   #15
                          00000000G   EF    9F  006C1          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  006C7          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  006CE          PUSHAB  CRLF
                                      02    DD  006D4          PUSHL   #2
                          00000000G   EF    9F  006D6          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  006DC          CALLS   #3,PAS$WRITE_STRING
                          00000000G   EF    9F  006E3          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  01    FB  006E9          CALLS   #1,PAS$WRITELN2
                                      00V   11  006F0          BRB     22$
                          00000000G   EF    9F  006F2  21$:    PUSHAB  SHIFT                                        ; 5145
                                      04    DD  006F8          PUSHL   #4
                          00000000G   EF    9F  006FA          PUSHAB  PAS$FV_OUTPUT
      00000000G   EF                  03    FB  00700          CALLS   #3,PAS$WRITE_STRING
```

```
                    00000000G   EF     9F 00707          PUSHAB  QUES_HINT
                                1F     DD 0070D          PUSHL   #31
                    00000000G   EF     9F 0070F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 00715          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 0071C          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            01     FB 00722          CALLS   #1,PAS$WRITELN2
                        0000V   31        00729  22$:    BRW     28$
                    00000000    8F     DF 0072C  23$:    PUSHAL  #0                                   ; 5153
       00000000G  EF            01     FB 00732          CALLS   #1,CLEAR
     00V00000000G EF            00     E0 00739          BBS     #0,FULL_PROMPT,25$                   ; 5155
     03 00000000G EF            00     E0 00741          BBS     #0,TEMP_FULL_PROMPT,.+3
                        0000V   31        00749          BRW     26$
                    00000000G   EF     9F 0074C  25$:    PUSHAB  SHIFT                                ; 5159
                                04     DD 00752          PUSHL   #4
                    00000000G   EF     9F 00754          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 0075A          CALLS   #3,PAS$WRITE_STRING
                    FFFF7E25    EF     9F 00761          PUSHAB  C.APC
                                02     DD 00767          PUSHL   #2
                    00000000G   EF     9F 00769          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 0076F          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 00776          PUSHAB  ANSI_REVERSE
                                04     DD 0077C          PUSHL   #4
                    00000000G   EF     9F 0077E          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 00784          CALLS   #3,PAS$WRITE_STRING
                    FFFF7DFF    EF     9F 0078B          PUSHAB  C.APD
                                0E     DD 00791          PUSHL   #14
                    00000000G   EF     9F 00793          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 00799          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 007A0          PUSHAB  ACTIVE_AREA
       00000000G  EF            01     FB 007A6          CALLS   #1,NUM_LEN
                                50     DD 007AD          PUSHL   R0
                    00000000G   EF     DD 007AF          PUSHL   ACTIVE_AREA
                    00000000G   EF     9F 007B5          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 007BB          CALLS   #3,PAS$WRITE_INTEGER
                    00000000G   EF     9F 007C2          PUSHAB  SEC_ATTR
                                16     DD 007C8          PUSHL   #22
                    00000000G   EF     9F 007CA          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 007D0          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 007D7          PUSHAB  ANSI_RESET
                                04     DD 007DD          PUSHL   #4
                    00000000G   EF     9F 007DF          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 007E5          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 007EC          PUSHAB  CRLF
                                02     DD 007F2          PUSHL   #2
                    00000000G   EF     9F 007F4          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            03     FB 007FA          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF     9F 00801          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF            01     FB 00807          CALLS   #1,PAS$WRITELN2
                    000000FC    8F     DD 0080E          PUSHL   #252                                 ; 5168
                                07     DD 00814          PUSHL   #7
                                04     DD 00816          PUSHL   #4
                    00000000G   EF     9F 00818          PUSHAB  SYS$OUTPUT_NAME
                                0B     DD 0081E          PUSHL   #11
                                01     DD 00820          PUSHL   #1
                    00000000G   EF     9F 00822          PUSHAB  FDL_DEST
       00000000G  EF            07     FB 00828          CALLS   #7,PAS$OPEN2
                    00000000G   EF     9F 0082F          PUSHAB  FDL_DEST                             ; 5170
```

```
00000000G  EF             01  FB 00835          CALLS   #1,PAS$REWRITE2
           00000000G  EF  9F 0083C              PUSHAB  TEST                              ; 5172
00000000G  EF             01  FB 00842          CALLS   #1,SHOW_PRIMARY_SECTION
           00000000G  EF  9F 00849              PUSHAB  FDL_DEST                          ; 5174
00000000G  EF             01  FB 0084F          CALLS   #1,PAS$CLOSE2
                          00V 11 00856          BRB     28$
           00000000G  EF  9F 00858  26$:        PUSHAB  SHIFT                             ; 5180
                          04  DD 0085E          PUSHL   #4
           00000000G  EF  9F 00860              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 00866          CALLS   #3,PAS$WRITE_STRING
           00000000G  EF  9F 0086D              PUSHAB  QUES_HINT
                          1F  DD 00873          PUSHL   #31
           00000000G  EF  9F 00875              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0087B          CALLS   #3,PAS$WRITE_STRING
           00000000G  EF  9F 00882              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             01  FB 00888          CALLS   #1,PAS$WRITELN2
           00000000G  EF  9F 0088F  28$:        PUSHAB  SHIFT                             ; 5184
                          04  DD 00895          PUSHL   #4
           00000000G  EF  9F 00897              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0089D          CALLS   #3,PAS$WRITE_STRING
           FFFF7CF6   EF  9F 008A4              PUSHAB  C.APE
                          0B  DD 008AA          PUSHL   #11
           00000000G  EF  9F 008AC              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 008B2          CALLS   #3,PAS$WRITE_STRING
           00000000G  EF  9F 008B9              PUSHAB  ACTIVE_AREA
00000000G  EF             01  FB 008BF          CALLS   #1,NUM_LEN
                          50  DD 008C6          PUSHL   R0
           00000000G  EF  DD 008C8              PUSHL   ACTIVE_AREA
           00000000G  EF  9F 008CE              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 008D4          CALLS   #3,PAS$WRITE_INTEGER
           FFFF7CCB   EF  9F 008DB              PUSHAB  C.APF
                          15  DD 008E1          PUSHL   #21
           00000000G  EF  9F 008E3              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 008E9          CALLS   #3,PAS$WRITE_STRING
           00000000G  EF  9F 008F0              PUSHAB  ANSI_REVERSE
                          04  DD 008F6          PUSHL   #4
           00000000G  EF  9F 008F8              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 008FE          CALLS   #3,PAS$WRITE_STRING
           FFFF7CB9   EF  9F 00905              PUSHAB  C.APG
                          03  DD 0090B          PUSHL   #3
           00000000G  EF  9F 0090D              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 00913          CALLS   #3,PAS$WRITE_STRING
           00000000G  EF  9F 0091A              PUSHAB  ANSI_RESET
                          04  DD 00920          PUSHL   #4
           00000000G  EF  9F 00922              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 00928          CALLS   #3,PAS$WRITE_STRING
           FFFF7C93   EF  9F 0092F              PUSHAB  C.APH
                          03  DD 00935          PUSHL   #3
           00000000G  EF  9F 00937              PUSHAB  PAS$FV_OUTPUT
00000000G  EF             03  FB 0093D          CALLS   #3,PAS$WRITE_STRING
           00000000   8F  DF 00944              PUSHAL  #0                                ; 5187
                  00  8F  9F 0094A              PUSHAB  #0
       F4  AD 00000000G   EF  9E 0094D          MOVAB   EDF$AB_AREA_TABLE_STA,-12(FP)
                  F4  AD  9F 00955              PUSHAB  -12(FP)
       F0  AD 00000000G   EF  9E 00958          MOVAB   EDF$AB_AREA_TABLE_KEY,-16(FP)
                  F0  AD  9F 00960              PUSHAB  -16(FP)
00000000G  EF             04  FB 00963          CALLS   #4,PARSE_INPUT
```

```
                                    0000V  31 0096A        BRW     126$
          03 00000000G  EF             00  E0 0096D 29$:   BBS     #0,FULL_CHOICE,.+3                          ; 5200
                                    0000V  31 00975        BRW     35$
                          00000000     8F  DF 00978        PUSHAL  #0                                          ; 5204
             00000000G  EF             01  FB 0097E        CALLS   #1,CLEAR
          00V00000000G  EF             00  E0 00985        BBS     #0,FULL_PROMPT,32$                          ; 5206
          03 00000000G  EF             00  E0 0098D        BBS     #0,TEMP_FULL_PROMPT,.+3
                                    0000V  31 00995        BRW     33$
                          00000000G    EF  9F 00998 32$:   PUSHAB  SHIFT                                       ; 5210
                                       04  DD 0099E        PUSHL   #4
                          00000000G    EF  9F 009A0        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 009A6        CALLS   #3,PAS$WRITE_STRING
                          FFFF7C19     EF  9F 009AD        PUSHAB  C.API
                                       02  DD 009B3        PUSHL   #2
                          00000000G    EF  9F 009B5        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 009BB        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 009C2        PUSHAB  ANSI_REVERSE
                                       04  DD 009C8        PUSHL   #4
                          00000000G    EF  9F 009CA        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 009D0        CALLS   #3,PAS$WRITE_STRING
                          FFFF7BF3     EF  9F 009D7        PUSHAB  C.APJ
                                       0E  DD 009DD        PUSHL   #14
                          00000000G    EF  9F 009DF        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 009E5        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 009EC        PUSHAB  SEC_ATTR
                                       16  DD 009F2        PUSHL   #22
                          00000000G    EF  9F 009F4        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 009FA        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 00A01        PUSHAB  ANSI_RESET
                                       04  DD 00A07        PUSHL   #4
                          00000000G    EF  9F 00A09        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A0F        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 00A16        PUSHAB  CRLF
                                       02  DD 00A1C        PUSHL   #2
                          00000000G    EF  9F 00A1E        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A24        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 00A2B        PUSHAB  CRLF_SHIFT
                                       06  DD 00A31        PUSHL   #6
                          00000000G    EF  9F 00A33        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A39        CALLS   #3,PAS$WRITE_STRING
                          FFFF7B9A     EF  9F 00A40        PUSHAB  C.APK
                                       24  DD 00A46        PUSHL   #36
                          00000000G    EF  9F 00A48        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A4E        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 00A55        PUSHAB  CRLF_SHIFT
                                       06  DD 00A5B        PUSHL   #6
                          00000000G    EF  9F 00A5D        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A63        CALLS   #3,PAS$WRITE_STRING
                          FFFF7B94     EF  9F 00A6A        PUSHAB  C.APL
                                       2A  DD 00A70        PUSHL   #42
                          00000000G    EF  9F 00A72        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A78        CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 00A7F        PUSHAB  CRLF_SHIFT
                                       06  DD 00A85        PUSHL   #6
                          00000000G    EF  9F 00A87        PUSHAB  PAS$FV_OUTPUT
             00000000G  EF             03  FB 00A8D        CALLS   #3,PAS$WRITE_STRING
                          FFFF7B96     EF  9F 00A94        PUSHAB  C.APM
```

```
                              26   DD 00A9A          PUSHL   #38
                  00000000G   EF   9F 00A9C          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00AA2          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00AA9          PUSHAB  CRLF_SHIFT
                              06   DD 00AAF          PUSHL   #6
                  00000000G   EF   9F 00AB1          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00AB7          CALLS   #3,PAS$WRITE_STRING
                  FFFF7B94    EF   9F 00ABE          PUSHAB  C.APN
                              28   DD 00AC4          PUSHL   #40
                  00000000G   EF   9F 00AC6          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00ACC          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00AD3          PUSHAB  CRLF_SHIFT
                              06   DD 00AD9          PUSHL   #6
                  00000000G   EF   9F 00ADB          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00AE1          CALLS   #3,PAS$WRITE_STRING
                  FFFF7B92    EF   9F 00AE8          PUSHAB  C.APO
                              2A   DD 00AEE          PUSHL   #42
                  00000000G   EF   9F 00AF0          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00AF6          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00AFD          PUSHAB  CRLF_SHIFT
                              06   DD 00B03          PUSHL   #6
                  00000000G   EF   9F 00B05          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B0B          CALLS   #3,PAS$WRITE_STRING
                  FFFF7B94    EF   9F 00B12          PUSHAB  C.APP
                              2A   DD 00B18          PUSHL   #42
                  00000000G   EF   9F 00B1A          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B20          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00B27          PUSHAB  CRLF_SHIFT
                              06   DD 00B2D          PUSHL   #6
                  00000000G   EF   9F 00B2F          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B35          CALLS   #3,PAS$WRITE_STRING
                  FFFF7B96    EF   9F 00B3C          PUSHAB  C.APQ
                              2C   DD 00B42          PUSHL   #44
                  00000000G   EF   9F 00B44          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B4A          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00B51          PUSHAB  CRLF_SHIFT
                              06   DD 00B57          PUSHL   #6
                  00000000G   EF   9F 00B59          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B5F          CALLS   #3,PAS$WRITE_STRING
                  FFFF7B98    EF   9F 00B66          PUSHAB  C.APR
                              33   DD 00B6C          PUSHL   #51
                  00000000G   EF   9F 00B6E          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B74          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00B7B          PUSHAB  CRLF_SHIFT
                              06   DD 00B81          PUSHL   #6
                  00000000G   EF   9F 00B83          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B89          CALLS   #3,PAS$WRITE_STRING
                  FFFF7BA2    EF   9F 00B90          PUSHAB  C.APS
                              29   DD 00B96          PUSHL   #41
                  00000000G   EF   9F 00B98          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00B9E          CALLS   #3,PAS$WRITE_STRING
                  00000000G   EF   9F 00BA5          PUSHAB  CRLF_SHIFT
                              06   DD 00BAB          PUSHL   #6
                  00000000G   EF   9F 00BAD          PUSHAB  PAS$FV_OUTPUT
    00000000G  EF             03   FB 00BB3          CALLS   #3,PAS$WRITE_STRING
                  FFFF7BA4    EF   9F 00BBA          PUSHAB  C.APT
                              2C   DD 00BC0          PUSHL   #44
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                    00000000G  EF   9F 00BC2          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00BC8          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00BCF          PUSHAB  CRLF_SHIFT
                               06   DD 00BD5          PUSHL   #6
                    00000000G  EF   9F 00BD7          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00BDD          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BA6   EF   9F 00BE4          PUSHAB  C.APU
                               2E   DD 00BEA          PUSHL   #46
                    00000000G  EF   9F 00BEC          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00BF2          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00BF9          PUSHAB  CRLF_SHIFT
                               06   DD 00BFF          PUSHL   #6
                    00000000G  EF   9F 00C01          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C07          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BAC   EF   9F 00C0E          PUSHAB  C.APV
                               2B   DD 00C14          PUSHL   #43
                    00000000G  EF   9F 00C16          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C1C          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00C23          PUSHAB  CRLF_SHIFT
                               06   DD 00C29          PUSHL   #6
                    00000000G  EF   9F 00C2B          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C31          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BAE   EF   9F 00C38          PUSHAB  C.APW
                               2C   DD 00C3E          PUSHL   #44
                    00000000G  EF   9F 00C40          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C46          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00C4D          PUSHAB  CRLF_SHIFT
                               06   DD 00C53          PUSHL   #6
                    00000000G  EF   9F 00C55          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C5B          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BB0   EF   9F 00C62          PUSHAB  C.APX
                               27   DD 00C68          PUSHL   #39
                    00000000G  EF   9F 00C6A          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C70          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00C77          PUSHAB  CRLF_SHIFT
                               06   DD 00C7D          PUSHL   #6
                    00000000G  EF   9F 00C7F          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C85          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BAE   EF   9F 00C8C          PUSHAB  C.APY
                               2F   DD 00C92          PUSHL   #47
                    00000000G  EF   9F 00C94          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00C9A          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00CA1          PUSHAB  CRLF_SHIFT
                               06   DD 00CA7          PUSHL   #6
                    00000000G  EF   9F 00CA9          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00CAF          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BB4   EF   9F 00CB6          PUSHAB  C.APZ
                               2C   DD 00CBC          PUSHL   #44
                    00000000G  EF   9F 00CBE          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00CC4          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00CCB          PUSHAB  CRLF_SHIFT
                               06   DD 00CD1          PUSHL   #6
                    00000000G  EF   9F 00CD3          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF            03   FB 00CD9          CALLS   #3,PAS$WRITE_STRING
                    FFFF7BB6   EF   9F 00CE0          PUSHAB  C.AQA
                               18   DD 00CE6          PUSHL   #24
                    00000000G  EF   9F 00CE8          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00CEE          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00CF5          PUSHAB  CRLF
                                 02  DD 00CFB          PUSHL   #2
                     00000000G   EF  9F 00CFD          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00D03          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00D0A          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01  FB 00D10          CALLS   #1,PAS$WRITELN2
                             0000V   31 00D17          BRW     40$
                     00000000G   EF  9F 00D1A 33$:     PUSHAB  SHIFT                                 ; 5254
                                 04  DD 00D20          PUSHL   #4
                     00000000G   EF  9F 00D22          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00D28          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00D2F          PUSHAB  QUES_HINT
                                 1F  DD 00D35          PUSHL   #31
                     00000000G   EF  9F 00D37          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00D3D          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00D44          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01  FB 00D4A          CALLS   #1,PAS$WRITELN2
                             0000V   31 00D51          BRW     40$
                     00000000    8F  DF 00D54 35$:     PUSHAL  #0                                    ; 5262
      00000000G  EF              01  FB 00D5A          CALLS   #1,CLEAR
    00V00000000G  EF             00  E0 00D61          BBS     #0,FULL_PROMPT,37$                    ; 5264
     03 00000000G  EF            00  E0 00D69          BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 00D71          BRW     38$
                     00000000G   EF  9F 00D74 37$:     PUSHAB  SHIFT                                 ; 5268
                                 04  DD 00D7A          PUSHL   #4
                     00000000G   EF  9F 00D7C          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00D82          CALLS   #3,PAS$WRITE_STRING
                     FFFF7B25    EF  9F 00D89          PUSHAB  C.AQB
                                 02  DD 00D8F          PUSHL   #2
                     00000000G   EF  9F 00D91          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00D97          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00D9E          PUSHAB  ANSI_REVERSE
                                 04  DD 00DA4          PUSHL   #4
                     00000000G   EF  9F 00DA6          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00DAC          CALLS   #3,PAS$WRITE_STRING
                     FFFF7AFF    EF  9F 00DB3          PUSHAB  C.AQC
                                 10  DD 00DB9          PUSHL   #16
                     00000000G   EF  9F 00DBB          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00DC1          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00DC8          PUSHAB  SEC_ATTR
                                 16  DD 00DCE          PUSHL   #22
                     00000000G   EF  9F 00DD0          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00DD6          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00DDD          PUSHAB  ANSI_RESET
                                 04  DD 00DE3          PUSHL   #4
                     00000000G   EF  9F 00DE5          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00DEB          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00DF2          PUSHAB  CRLF
                                 02  DD 00DF8          PUSHL   #2
                     00000000G   EF  9F 00DFA          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              03  FB 00E00          CALLS   #3,PAS$WRITE_STRING
                     00000000G   EF  9F 00E07          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF              01  FB 00E0D          CALLS   #1,PAS$WRITELN2
                     000000FC    8F  DD 00E14          PUSHL   #252                                  ; 5275
                                 07  DD 00E1A          PUSHL   #7
                                 04  DD 00E1C          PUSHL   #4
```

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                    00000000G  EF   9F 00E1E         PUSHAB   SYS$OUTPUT_NAME
                               0B   DD 00E24         PUSHL    #11
                               01   DD 00E26         PUSHL    #1
                    00000000G  EF   9F 00E28         PUSHAB   FDL_DEST
00000000G  EF                  07   FB 00E2E         CALLS    #7,PAS$OPEN2
                    00000000G  EF   9F 00E35         PUSHAB   FDL_DEST                              ; 5277
00000000G  EF                  01   FB 00E3B         CALLS    #1,PAS$REWRITE2
                    00000000G  EF   9F 00E42         PUSHAB   TEST                                  ; 5279
00000000G  EF                  01   FB 00E48         CALLS    #1,SHOW_PRIMARY_SECTION
                    00000000G  EF   9F 00E4F         PUSHAB   FDL_DEST                              ; 5281
00000000G  EF                  01   FB 00E55         CALLS    #1,PAS$CLOSE2
                               00V  11 00E5C         BRB      40$
                    00000000G  EF   9F 00E5E  38$:   PUSHAB   SHIFT                                 ; 5287
                               04   DD 00E64         PUSHL    #4
                    00000000G  EF   9F 00E66         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00E6C         CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00E73         PUSHAB   QUES_HINT
                               1F   DD 00E79         PUSHL    #31
                    00000000G  EF   9F 00E7B         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00E81         CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00E88         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  01   FB 00E8E         CALLS    #1,PAS$WRITELN2
                    00000000G  EF   9F 00E95  40$:   PUSHAB   SHIFT                                 ; 5291
                               04   DD 00E9B         PUSHL    #4
                    00000000G  EF   9F 00E9D         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EA3         CALLS    #3,PAS$WRITE_STRING
                    FFFF7A18   EF   9F 00EAA         PUSHAB   C.AQD
                               22   DD 00EB0         PUSHL    #34
                    00000000G  EF   9F 00EB2         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EB8         CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00EBF         PUSHAB   ANSI_REVERSE
                               04   DD 00EC5         PUSHL    #4
                    00000000G  EF   9F 00EC7         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00ECD         CALLS    #3,PAS$WRITE_STRING
                    FFFF7A12   EF   9F 00ED4         PUSHAB   C.AQE
                               03   DD 00EDA         PUSHL    #3
                    00000000G  EF   9F 00EDC         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EE2         CALLS    #3,PAS$WRITE_STRING
                    00000000G  EF   9F 00EE9         PUSHAB   ANSI_RESET
                               04   DD 00EEF         PUSHL    #4
                    00000000G  EF   9F 00EF1         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00EF7         CALLS    #3,PAS$WRITE_STRING
                    FFFF79EC   EF   9F 00EFE         PUSHAB   C.AQF
                               03   DD 00F04         PUSHL    #3
                    00000000G  EF   9F 00F06         PUSHAB   PAS$FV_OUTPUT
00000000G  EF                  03   FB 00F0C         CALLS    #3,PAS$WRITE_STRING
                    00000000   8F   DF 00F13         PUSHAL   #0                                    ; 5293
                          00   8F   9F 00F19         PUSHAB   #0
       F4  AD       00000000G  EF   9E 00F1C         MOVAB    EDF$AB_CONNECT_TABLE_STA,-12(FP)
                          F4   AD   9F 00F24         PUSHAB   -12(FP)
       F0  AD       00000000G  EF   9E 00F27         MOVAB    EDF$AB_CONNECT_TABLE_KEY,-16(FP)
                          F0   AD   9F 00F2F         PUSHAB   -16(FP)
00000000G  EF                  04   FB 00F32         CALLS    #4,PARSE_INPUT
                             0000V  31 00F39         BRW      126$
03 00000000G  EF               00   E0 00F3C  41$:   BBS      #0,FULL_CHOICE,.+3                    ; 5306
                             0000V  31 00F44         BRW      47$
                    00000000   8F   DF 00F47         PUSHAL   #0                                    ; 5310
       00000000G  EF                01  FB 00F4D          CALLS   #1,CLEAR
    00V00000000G  EF                00  E0 00F54          BBS     #0,FULL_PROMPT,44$                   ; 5312
    03 00000000G  EF                00  E0 00F5C          BBS     #0,TEMP_FULL_PROMPT,.+3
                               0000V  31 00F64          BRW     45$
                    00000000G  EF  9F 00F67  44$:     PUSHAB  SHIFT                                 ; 5316
                               04  DD 00F6D          PUSHL   #4
                    00000000G  EF  9F 00F6F          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00F75          CALLS   #3,PAS$WRITE_STRING
                    FFFF7972   EF  9F 00F7C          PUSHAB  C.AQG
                               02  DD 00F82          PUSHL   #2
                    00000000G  EF  9F 00F84          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00F8A          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 00F91          PUSHAB  ANSI_REVERSE
                               04  DD 00F97          PUSHL   #4
                    00000000G  EF  9F 00F99          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00F9F          CALLS   #3,PAS$WRITE_STRING
                    FFFF794C   EF  9F 00FA6          PUSHAB  C.AQH
                               0B  DD 00FAC          PUSHL   #11
                    00000000G  EF  9F 00FAE          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00FB4          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 00FBB          PUSHAB  SEC_ATTR
                               16  DD 00FC1          PUSHL   #22
                    00000000G  EF  9F 00FC3          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00FC9          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 00FD0          PUSHAB  ANSI_RESET
                               04  DD 00FD6          PUSHL   #4
                    00000000G  EF  9F 00FD8          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00FDE          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 00FE5          PUSHAB  CRLF
                               02  DD 00FEB          PUSHL   #2
                    00000000G  EF  9F 00FED          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 00FF3          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 00FFA          PUSHAB  CRLF_SHIFT
                               06  DD 01000          PUSHL   #6
                    00000000G  EF  9F 01002          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 01008          CALLS   #3,PAS$WRITE_STRING
                    FFFF78EF   EF  9F 0100F          PUSHAB  C.AQI
                               0F  DD 01015          PUSHL   #15
                    00000000G  EF  9F 01017          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 0101D          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 01024          PUSHAB  CRLF_SHIFT
                               06  DD 0102A          PUSHL   #6
                    00000000G  EF  9F 0102C          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 01032          CALLS   #3,PAS$WRITE_STRING
                    FFFF78D5   EF  9F 01039          PUSHAB  C.AQJ
                               10  DD 0103F          PUSHL   #16
                    00000000G  EF  9F 01041          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 01047          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 0104E          PUSHAB  CRLF_SHIFT
                               06  DD 01054          PUSHL   #6
                    00000000G  EF  9F 01056          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 0105C          CALLS   #3,PAS$WRITE_STRING
                    FFFF78BB   EF  9F 01063          PUSHAB  C.AQK
                               12  DD 01069          PUSHL   #18
                    00000000G  EF  9F 0106B          PUSHAB  PAS$FV_OUTPUT
       00000000G  EF                03  FB 01071          CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 01078          PUSHAB  CRLF_SHIFT
```

```
                                    06  DD 0107E           PUSHL   #6
                          00000000G  EF  9F 01080           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 01086           CALLS   #3,PAS$WRITE_STRING
                          FFFF78A5   EF  9F 0108D           PUSHAB  C.AQL
                                     10  DD 01093           PUSHL   #16
                          00000000G  EF  9F 01095           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 0109B           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 010A2           PUSHAB  CRLF
                                     02  DD 010A8           PUSHL   #2
                          00000000G  EF  9F 010AA           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 010B0           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 010B7           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             01  FB 010BD           CALLS   #1,PAS$WRITELN2
                                  0000V  31 010C4           BRW     52$
                          00000000G  EF  9F 010C7 45$:      PUSHAB  SHIFT                                    ; 5333
                                     04  DD 010CD           PUSHL   #4
                          00000000G  EF  9F 010CF           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 010D5           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 010DC           PUSHAB  QUES_HINT
                                     1F  DD 010E2           PUSHL   #31
                          00000000G  EF  9F 010E4           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 010EA           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 010F1           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             01  FB 010F7           CALLS   #1,PAS$WRITELN2
                                  0000V  31 010FE           BRW     52$
                          00000000   8F  DF 01101 47$:      PUSHAL  #0                                       ; 5341
           00000000G  EF             01  FB 01107           CALLS   #1,CLEAR
        00V00000000G  EF             00  E0 0110E           BBS     #0,FULL_PROMPT,49$                       ; 5343
        03 00000000G  EF             00  E0 01116           BBS     #0,TEMP_FULL_PROMPT,.+3
                                  0000V  31 0111E           BRW     50$
                          00000000G  EF  9F 01121 49$:      PUSHAB  SHIFT                                    ; 5347
                                     04  DD 01127           PUSHL   #4
                          00000000G  EF  9F 01129           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 0112F           CALLS   #3,PAS$WRITE_STRING
                          FFFF780C   EF  9F 01136           PUSHAB  C.AQM
                                     02  DD 0113C           PUSHL   #2
                          00000000G  EF  9F 0113E           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 01144           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 0114B           PUSHAB  ANSI_REVERSE
                                     04  DD 01151           PUSHL   #4
                          00000000G  EF  9F 01153           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 01159           CALLS   #3,PAS$WRITE_STRING
                          FFFF77E6   EF  9F 01160           PUSHAB  C.AQN
                                     0D  DD 01166           PUSHL   #13
                          00000000G  EF  9F 01168           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 0116E           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 01175           PUSHAB  SEC_ATTR
                                     16  DD 0117B           PUSHL   #22
                          00000000G  EF  9F 0117D           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 01183           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 0118A           PUSHAB  ANSI_RESET
                                     04  DD 01190           PUSHL   #4
                          00000000G  EF  9F 01192           PUSHAB  PAS$FV_OUTPUT
           00000000G  EF             03  FB 01198           CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF  9F 0119F           PUSHAB  CRLF
                                     02  DD 011A5           PUSHL   #2
                          00000000G  EF  9F 011A7           PUSHAB  PAS$FV_OUTPUT
```

```
00000000G  EF             03  FB 011AD          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF  9F 011B4          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             01  FB 011BA          CALLS    #1,PAS$WRITELN2
               000000FC   8F  DD 011C1          PUSHL    #252                              ; 5354
                          07  DD 011C7          PUSHL    #7
                          04  DD 011C9          PUSHL    #4
               00000000G  EF  9F 011CB          PUSHAB   SYS$OUTPUT_NAME
                          0B  DD 011D1          PUSHL    #11
                          01  DD 011D3          PUSHL    #1
               00000000G  EF  9F 011D5          PUSHAB   FDL_DEST
00000000G  EF             07  FB 011DB          CALLS    #7,PAS$OPEN2
               00000000G  EF  9F 011E2          PUSHAB   FDL_DEST                          ; 5356
00000000G  EF             01  FB 011E8          CALLS    #1,PAS$REWRITE2
               00000000G  EF  9F 011EF          PUSHAB   TEST                              ; 5358
00000000G  EF             01  FB 011F5          CALLS    #1,SHOW_PRIMARY_SECTION
               00000000G  EF  9F 011FC          PUSHAB   FDL_DEST                          ; 5360
00000000G  EF             01  FB 01202          CALLS    #1,PAS$CLOSE2
                         00V  11 01209          BRB      52$
               00000000G  EF  9F 0120B 50$:     PUSHAB   SHIFT                             ; 5366
                          04  DD 01211          PUSHL    #4
               00000000G  EF  9F 01213          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 01219          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF  9F 01220          PUSHAB   QUES_HINT
                          1F  DD 01226          PUSHL    #31
               00000000G  EF  9F 01228          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 0122E          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF  9F 01235          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             01  FB 0123B          CALLS    #1,PAS$WRITELN2
               00000000G  EF  9F 01242 52$:     PUSHAB   SHIFT                             ; 5370
                          04  DD 01248          PUSHL    #4
               00000000G  EF  9F 0124A          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 01250          CALLS    #3,PAS$WRITE_STRING
               FFFF76FF   EF  9F 01257          PUSHAB   C.AQO
                          1F  DD 0125D          PUSHL    #31
               00000000G  EF  9F 0125F          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 01265          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF  9F 0126C          PUSHAB   ANSI_REVERSE
                          04  DD 01272          PUSHL    #4
               00000000G  EF  9F 01274          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 0127A          CALLS    #3,PAS$WRITE_STRING
               FFFF76F5   EF  9F 01281          PUSHAB   C.AQP
                          03  DD 01287          PUSHL    #3
               00000000G  EF  9F 01289          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 0128F          CALLS    #3,PAS$WRITE_STRING
               00000000G  EF  9F 01296          PUSHAB   ANSI_RESET
                          04  DD 0129C          PUSHL    #4
               00000000G  EF  9F 0129E          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 012A4          CALLS    #3,PAS$WRITE_STRING
               FFFF76CF   EF  9F 012AB          PUSHAB   C.AQQ
                          03  DD 012B1          PUSHL    #3
               00000000G  EF  9F 012B3          PUSHAB   PAS$FV_OUTPUT
00000000G  EF             03  FB 012B9          CALLS    #3,PAS$WRITE_STRING
               00000000   8F  DF 012C0          PUSHAL   #0                                ; 5372
                      00  8F  9F 012C6          PUSHAB   #0
       F4  AD  00000000G  EF  9E 012C9          MOVAB    EDF$AB_DATE_TABLE_STA,-12(FP)
                      F4  AD  9F 012D1          PUSHAB   -12(FP)
       F0  AD  00000000G  EF  9E 012D4          MOVAB    EDF$AB_DATE_TABLE_KEY,-16(FP)
```

```
                         F0    AD    9F 012DC          PUSHAB  -16(FP)
         00000000G  EF         04    FB 012DF          CALLS   #4,PARSE_INPUT
                             0000V   31 012E6          BRW     126$
      03 00000000G  EF         00    E0 012E9 53$:     BBS     #0,FULL_CHOICE,.+3                        ; 5385
                             0000V   31 012F1          BRW     59$
                   00000000    8F    DF 012F4          PUSHAL  #0                                        ; 5389
         00000000G  EF         01    FB 012FA          CALLS   #1,CLEAR
    00v00000000G   EF          00    E0 01301          BBS     #0,FULL_PROMPT,56$                        ; 5391
      03 00000000G  EF         00    E0 01309          BBS     #0,TEMP_FULL_PROMPT,.+3
                             0000V   31 01311          BRW     57$
                   00000000G   EF    9F 01314 56$:     PUSHAB  SHIFT                                     ; 5395
                               04    DD 0131A          PUSHL   #4
                   00000000G   EF    9F 0131C          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 01322          CALLS   #3,PAS$WRITE_STRING
                   FFFF7655    EF    9F 01329          PUSHAB  C.AQR
                               02    DD 0132F          PUSHL   #2
                   00000000G   EF    9F 01331          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 01337          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 0133E          PUSHAB  ANSI_REVERSE
                               04    DD 01344          PUSHL   #4
                   00000000G   EF    9F 01346          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 0134C          CALLS   #3,PAS$WRITE_STRING
                   FFFF762F    EF    9F 01353          PUSHAB  C.AQS
                               0B    DD 01359          PUSHL   #11
                   00000000G   EF    9F 0135B          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 01361          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 01368          PUSHAB  SEC_ATTR
                               16    DD 0136E          PUSHL   #22
                   00000000G   EF    9F 01370          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 01376          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 0137D          PUSHAB  ANSI_RESET
                               04    DD 01383          PUSHL   #4
                   00000000G   EF    9F 01385          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 0138B          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 01392          PUSHAB  CRLF
                               02    DD 01398          PUSHL   #2
                   00000000G   EF    9F 0139A          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 013A0          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 013A7          PUSHAB  CRLF_SHIFT
                               06    DD 013AD          PUSHL   #6
                   00000000G   EF    9F 013AF          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 013B5          CALLS   #3,PAS$WRITE_STRING
                   FFFF75D2    EF    9F 013BC          PUSHAB  C.AQT
                               2A    DD 013C2          PUSHL   #42
                   00000000G   EF    9F 013C4          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 013CA          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 013D1          PUSHAB  CRLF_SHIFT
                               06    DD 013D7          PUSHL   #6
                   00000000G   EF    9F 013D9          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 013DF          CALLS   #3,PAS$WRITE_STRING
                   FFFF75D4    EF    9F 013E6          PUSHAB  C.AQU
                               28    DD 013EC          PUSHL   #40
                   00000000G   EF    9F 013EE          PUSHAB  PAS$FV_OUTPUT
         00000000G  EF         03    FB 013F4          CALLS   #3,PAS$WRITE_STRING
                   00000000G   EF    9F 013FB          PUSHAB  CRLF_SHIFT
                               06    DD 01401          PUSHL   #6
                   00000000G   EF    9F 01403          PUSHAB  PAS$FV_OUTPUT
```

```
     00000000G  EF               03  FB 01409          CALLS    #3,PAS$WRITE_STRING
                     FFFF75D2    EF  9F 01410          PUSHAB   C.AQV
                                 24  DD 01416          PUSHL    #36
                     00000000G   EF  9F 01418          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 0141E          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 01425          PUSHAB   CRLF_SHIFT
                                 06  DD 0142B          PUSHL    #6
                     00000000G   EF  9F 0142D          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 01433          CALLS    #3,PAS$WRITE_STRING
                     FFFF75CC    EF  9F 0143A          PUSHAB   C.AQW
                                 2F  DD 01440          PUSHL    #47
                     00000000G   EF  9F 01442          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 01448          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 0144F          PUSHAB   CRLF_SHIFT
                                 06  DD 01455          PUSHL    #6
                     00000000G   EF  9F 01457          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 0145D          CALLS    #3,PAS$WRITE_STRING
                     FFFF75D2    EF  9F 01464          PUSHAB   C.AQX
                                 26  DD 0146A          PUSHL    #38
                     00000000G   EF  9F 0146C          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 01472          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 01479          PUSHAB   CRLF_SHIFT
                                 06  DD 0147F          PUSHL    #6
                     00000000G   EF  9F 01481          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 01487          CALLS    #3,PAS$WRITE_STRING
                     FFFF75D0    EF  9F 0148E          PUSHAB   C.AQY
                                 2B  DD 01494          PUSHL    #43
                     00000000G   EF  9F 01496          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 0149C          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 014A3          PUSHAB   CRLF_SHIFT
                                 06  DD 014A9          PUSHL    #6
                     00000000G   EF  9F 014AB          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 014B1          CALLS    #3,PAS$WRITE_STRING
                     FFFF75D2    EF  9F 014B8          PUSHAB   C.AQZ
                                 1D  DD 014BE          PUSHL    #29
                     00000000G   EF  9F 014C0          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 014C6          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 014CD          PUSHAB   CRLF_SHIFT
                                 06  DD 014D3          PUSHL    #6
                     00000000G   EF  9F 014D5          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 014DB          CALLS    #3,PAS$WRITE_STRING
                     FFFF75C8    EF  9F 014E2          PUSHAB   C.ARA
                                 2B  DD 014E8          PUSHL    #43
                     00000000G   EF  9F 014EA          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 014F0          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 014F7          PUSHAB   CRLF_SHIFT
                                 06  DD 014FD          PUSHL    #6
                     00000000G   EF  9F 014FF          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 01505          CALLS    #3,PAS$WRITE_STRING
                     FFFF75CA    EF  9F 0150C          PUSHAB   C.ARB
                                 29  DD 01512          PUSHL    #41
                     00000000G   EF  9F 01514          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 0151A          CALLS    #3,PAS$WRITE_STRING
                     00000000G   EF  9F 01521          PUSHAB   CRLF_SHIFT
                                 06  DD 01527          PUSHL    #6
                     00000000G   EF  9F 01529          PUSHAB   PAS$FV_OUTPUT
     00000000G  EF               03  FB 0152F          CALLS    #3,PAS$WRITE_STRING
```

```
                         FFFF75CC  EF    9F 01536         PUSHAB  C.ARC
                                   2A    DD 0153C         PUSHL   #42
                         00000000G EF    9F 0153E         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01544         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 0154B         PUSHAB  CRLF_SHIFT
                                   06    DD 01551         PUSHL   #6
                         00000000G EF    9F 01553         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01559         CALLS   #3,PAS$WRITE_STRING
                         FFFF75CE  EF    9F 01560         PUSHAB  C.ARD
                                   28    DD 01566         PUSHL   #40
                         00000000G EF    9F 01568         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 0156E         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 01575         PUSHAB  CRLF_SHIFT
                                   06    DD 0157B         PUSHL   #6
                         00000000G EF    9F 0157D         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01583         CALLS   #3,PAS$WRITE_STRING
                         FFFF75CC  EF    9F 0158A         PUSHAB  C.ARE
                                   29    DD 01590         PUSHL   #41
                         00000000G EF    9F 01592         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01598         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 0159F         PUSHAB  CRLF_SHIFT
                                   06    DD 015A5         PUSHL   #6
                         00000000G EF    9F 015A7         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 015AD         CALLS   #3,PAS$WRITE_STRING
                         FFFF75CE  EF    9F 015B4         PUSHAB  C.ARF
                                   32    DD 015BA         PUSHL   #50
                         00000000G EF    9F 015BC         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 015C2         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 015C9         PUSHAB  CRLF_SHIFT
                                   06    DD 015CF         PUSHL   #6
                         00000000G EF    9F 015D1         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 015D7         CALLS   #3,PAS$WRITE_STRING
                         FFFF75D8  EF    9F 015DE         PUSHAB  C.ARG
                                   2A    DD 015E4         PUSHL   #42
                         00000000G EF    9F 015E6         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 015EC         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 015F3         PUSHAB  CRLF_SHIFT
                                   06    DD 015F9         PUSHL   #6
                         00000000G EF    9F 015FB         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01601         CALLS   #3,PAS$WRITE_STRING
                         FFFF75DA  EF    9F 01608         PUSHAB  C.ARH
                                   29    DD 0160E         PUSHL   #41
                         00000000G EF    9F 01610         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01616         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 0161D         PUSHAB  CRLF_SHIFT
                                   06    DD 01623         PUSHL   #6
                         00000000G EF    9F 01625         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 0162B         CALLS   #3,PAS$WRITE_STRING
                         FFFF75DC  EF    9F 01632         PUSHAB  C.ARI
                                   2E    DD 01638         PUSHL   #46
                         00000000G EF    9F 0163A         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01640         CALLS   #3,PAS$WRITE_STRING
                         00000000G EF    9F 01647         PUSHAB  CRLF_SHIFT
                                   06    DD 0164D         PUSHL   #6
                         00000000G EF    9F 0164F         PUSHAB  PAS$FV_OUTPUT
              00000000G  EF        03    FB 01655         CALLS   #3,PAS$WRITE_STRING
                         FFFF75E2  EF    9F 0165C         PUSHAB  C.ARJ
```

```
                                   2E  DD 01662          PUSHL    #46
                        00000000G  EF  9F 01664          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 0166A          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 01671          PUSHAB   CRLF_SHIFT
                                   06  DD 01677          PUSHL    #6
                        00000000G  EF  9F 01679          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 0167F          CALLS    #3,PAS$WRITE_STRING
                        FFFF75E8   EF  9F 01686          PUSHAB   C.ARK
                                   2E  DD 0168C          PUSHL    #46
                        00000000G  EF  9F 0168E          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 01694          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 0169B          PUSHAB   CRLF_SHIFT
                                   06  DD 016A1          PUSHL    #6
                        00000000G  EF  9F 016A3          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 016A9          CALLS    #3,PAS$WRITE_STRING
                        FFFF75EE   EF  9F 016B0          PUSHAB   C.ARL
                                   26  DD 016B6          PUSHL    #38
                        00000000G  EF  9F 016B8          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 016BE          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 016C5          PUSHAB   CRLF
                                   02  DD 016CB          PUSHL    #2
                        00000000G  EF  9F 016CD          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 016D3          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 016DA          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           01  FB 016E0          CALLS    #1,PAS$WRITELN2
                                0000V  31 016E7          BRW      64$
                        00000000G  EF  9F 016EA 57$:     PUSHAB   SHIFT                                      ; 5442
                                   04  DD 016F0          PUSHL    #4
                        00000000G  EF  9F 016F2          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 016F8          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 016FF          PUSHAB   QUES_HINT
                                   1F  DD 01705          PUSHL    #31
                        00000000G  EF  9F 01707          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 0170D          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 01714          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           01  FB 0171A          CALLS    #1,PAS$WRITELN2
                                0000V  31 01721          BRW      64$
                        00000000   8F  DF 01724 59$:     PUSHAL   #0                                         ; 5450
           00000000G  EF           01  FB 0172A          CALLS    #1,CLEAR
        00V00000000G  EF           00  E0 01731          BBS      #0,FULL_PROMPT,61$                         ; 5452
        03 00000000G  EF           00  E0 01739          BBS      #0,TEMP_FULL_PROMPT,.+3
                                0000V  31 01741          BRW      62$
                        00000000G  EF  9F 01744 61$:     PUSHAB   SHIFT                                      ; 5456
                                   04  DD 0174A          PUSHL    #4
                        00000000G  EF  9F 0174C          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 01752          CALLS    #3,PAS$WRITE_STRING
                        FFFF756B   EF  9F 01759          PUSHAB   C.ARM
                                   02  DD 0175F          PUSHL    #2
                        00000000G  EF  9F 01761          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 01767          CALLS    #3,PAS$WRITE_STRING
                        00000000G  EF  9F 0176E          PUSHAB   ANSI_REVERSE
                                   04  DD 01774          PUSHL    #4
                        00000000G  EF  9F 01776          PUSHAB   PAS$FV_OUTPUT
           00000000G  EF           03  FB 0177C          CALLS    #3,PAS$WRITE_STRING
                        FFFF7543   EF  9F 01783          PUSHAB   C.ARN
                                   0D  DD 01789          PUSHL    #13
                        00000000G  EF  9F 0178B          PUSHAB   PAS$FV_OUTPUT
```

```
00000000G  EF                03  FB 01791         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 01798         PUSHAB  SEC_ATTR
                             16  DD 0179E         PUSHL   #22
                 00000000G   EF  9F 017A0         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 017A6         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 017AD         PUSHAB  ANSI_RESET
                             04  DD 017B3         PUSHL   #4
                 00000000G   EF  9F 017B5         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 017BB         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 017C2         PUSHAB  CRLF
                             02  DD 017C8         PUSHL   #2
                 00000000G   EF  9F 017CA         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 017D0         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 017D7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                01  FB 017DD         CALLS   #1,PAS$WRITELN2
                 000000FC    8F  DD 017E4         PUSHL   #252                                    ; 5463
                             07  DD 017EA         PUSHL   #7
                             04  DD 017EC         PUSHL   #4
                 00000000G   EF  9F 017EE         PUSHAB  SYS$OUTPUT_NAME
                             0B  DD 017F4         PUSHL   #11
                             01  DD 017F6         PUSHL   #1
                 00000000G   EF  9F 017F8         PUSHAB  FDL_DEST
00000000G  EF                07  FB 017FE         CALLS   #7,PAS$OPEN2
                 00000000G   EF  9F 01805         PUSHAB  FDL_DEST                                ; 5465
00000000G  EF                01  FB 0180B         CALLS   #1,PAS$REWRITE2
                 00000000G   EF  9F 01812         PUSHAB  TEST                                    ; 5467
00000000G  EF                01  FB 01818         CALLS   #1,SHOW_PRIMARY_SECTION
                 00000000G   EF  9F 0181F         PUSHAB  FDL_DEST                                ; 5469
00000000G  EF                01  FB 01825         CALLS   #1,PAS$CLOSE2
                            00V  11 0182C         BRB     63$
                 00000000G   EF  9F 0182E  62$:   PUSHAB  SHIFT                                   ; 5475
                             04  DD 01834         PUSHL   #4
                 00000000G   EF  9F 01836         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0183C         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 01843         PUSHAB  QUES_HINT
                             1F  DD 01849         PUSHL   #31
                 00000000G   EF  9F 0184B         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 01851         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 01858         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                01  FB 0185E         CALLS   #1,PAS$WRITELN2
                                    01865  63$:
                 00000000G   EF  9F 01865  64$:   PUSHAB  SHIFT                                   ; 5479
                             04  DD 0186B         PUSHL   #4
                 00000000G   EF  9F 0186D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 01873         CALLS   #3,PAS$WRITE_STRING
                 FFFF745C    EF  9F 0187A         PUSHAB  C.ARO
                             1F  DD 01880         PUSHL   #31
                 00000000G   EF  9F 01882         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 01888         CALLS   #3,PAS$WRITE_STRING
                 00000000G   EF  9F 0188F         PUSHAB  ANSI_REVERSE
                             04  DD 01895         PUSHL   #4
                 00000000G   EF  9F 01897         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 0189D         CALLS   #3,PAS$WRITE_STRING
                 FFFF7452    EF  9F 018A4         PUSHAB  C.ARP
                             03  DD 018AA         PUSHL   #3
                 00000000G   EF  9F 018AC         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                03  FB 018B2         CALLS   #3,PAS$WRITE_STRING
```

```
                    00000000G  EF  9F 018B9           PUSHAB  ANSI_RESET
                               04  DD 018BF           PUSHL   #4
                    00000000G  EF  9F 018C1           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 018C7           CALLS   #3,PAS$WRITE_STRING
                    FFFF742C   EF  9F 018CE           PUSHAB  C.ARQ
                               03  DD 018D4           PUSHL   #3
                    00000000G  EF  9F 018D6           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 018DC           CALLS   #3,PAS$WRITE_STRING
                    00000000   8F  DF 018E3           PUSHAL  #0                                        ; 5481
                          00   8F  9F 018E9           PUSHAB  #0
            F4  AD  00000000G  EF  9E 018EC           MOVAB   EDF$AB_FILE_TABLE_STA,-12(FP)
                          F4   AD  9F 018F4           PUSHAB  -12(FP)
            F0  AD  00000000G  EF  9E 018F7           MOVAB   EDF$AB_FILE_TABLE_KEY,-16(FP)
                          F0   AD  9F 018FF           PUSHAB  -16(FP)
     00000000G  EF             04  FB 01902           CALLS   #4,PARSE_INPUT
                         0000V     31 01909           BRW     126$
  03 00000000G  EF             00  E0 0190C 65$:      BBS     #0,FULL_CHOICE,.+3                        ; 5494
                         0000V     31 01914           BRW     71$
                    00000000   8F  DF 01917           PUSHAL  #0                                        ; 5498
     00000000G  EF             01  FB 0191D           CALLS   #1,CLEAR
00V00000000G    EF             00  E0 01924           BBS     #0,FULL_PROMPT,68$                        ; 5500
  03 00000000G  EF             00  E0 0192C           BBS     #0,TEMP_FULL_PROMPT,.+3
                         0000V     31 01934           BRW     69$
                    00000000G  EF  9F 01937 68$:      PUSHAB  SHIFT                                     ; 5504
                               04  DD 0193D           PUSHL   #4
                    00000000G  EF  9F 0193F           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 01945           CALLS   #3,PAS$WRITE_STRING
                    FFFF73B2   EF  9F 0194C           PUSHAB  C.ARR
                               02  DD 01952           PUSHL   #2
                    00000000G  EF  9F 01954           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 0195A           CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 01961           PUSHAB  ANSI_REVERSE
                               04  DD 01967           PUSHL   #4
                    00000000G  EF  9F 01969           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 0196F           CALLS   #3,PAS$WRITE_STRING
                    FFFF738C   EF  9F 01976           PUSHAB  C.ARS
                               0E  DD 0197C           PUSHL   #14
                    00000000G  EF  9F 0197E           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 01984           CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 0198B           PUSHAB  SEC_ATTR
                               16  DD 01991           PUSHL   #22
                    00000000G  EF  9F 01993           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 01999           CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 019A0           PUSHAB  ANSI_RESET
                               04  DD 019A6           PUSHL   #4
                    00000000G  EF  9F 019A8           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 019AE           CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 019B5           PUSHAB  CRLF
                               02  DD 019BB           PUSHL   #2
                    00000000G  EF  9F 019BD           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 019C3           CALLS   #3,PAS$WRITE_STRING
                    00000000G  EF  9F 019CA           PUSHAB  CRLF_SHIFT
                               06  DD 019D0           PUSHL   #6
                    00000000G  EF  9F 019D2           PUSHAB  PAS$FV_OUTPUT
     00000000G  EF             03  FB 019D8           CALLS   #3,PAS$WRITE_STRING
                    FFFF7333   EF  9F 019DF           PUSHAB  C.ART
                               13  DD 019E5           PUSHL   #19
                         00000000G   EF   9F 019E7         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 019ED         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 019F4         PUSHAB   CRLF_SHIFT
                                     06   DD 019FA         PUSHL    #6
                         00000000G   EF   9F 019FC         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A02         CALLS    #3,PAS$WRITE_STRING
                         FFFF731D    EF   9F 01A09         PUSHAB   C.ARU
                                     12   DD 01A0F         PUSHL    #18
                         00000000G   EF   9F 01A11         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A17         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01A1E         PUSHAB   CRLF_SHIFT
                                     06   DD 01A24         PUSHL    #6
                         00000000G   EF   9F 01A26         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A2C         CALLS    #3,PAS$WRITE_STRING
                         FFFF7307    EF   9F 01A33         PUSHAB   C.ARV
                                     13   DD 01A39         PUSHL    #19
                         00000000G   EF   9F 01A3B         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A41         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01A48         PUSHAB   CRLF_SHIFT
                                     06   DD 01A4E         PUSHL    #6
                         00000000G   EF   9F 01A50         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A56         CALLS    #3,PAS$WRITE_STRING
                         FFFF72F1    EF   9F 01A5D         PUSHAB   C.ARW
                                     12   DD 01A63         PUSHL    #18
                         00000000G   EF   9F 01A65         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A6B         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01A72         PUSHAB   CRLF_SHIFT
                                     06   DD 01A78         PUSHL    #6
                         00000000G   EF   9F 01A7A         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A80         CALLS    #3,PAS$WRITE_STRING
                         FFFF72DB    EF   9F 01A87         PUSHAB   C.ARX
                                     14   DD 01A8D         PUSHL    #20
                         00000000G   EF   9F 01A8F         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01A95         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01A9C         PUSHAB   CRLF_SHIFT
                                     06   DD 01AA2         PUSHL    #6
                         00000000G   EF   9F 01AA4         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01AAA         CALLS    #3,PAS$WRITE_STRING
                         FFFF72C5    EF   9F 01AB1         PUSHAB   C.ARY
                                     13   DD 01AB7         PUSHL    #19
                         00000000G   EF   9F 01AB9         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01ABF         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01AC6         PUSHAB   CRLF_SHIFT
                                     06   DD 01ACC         PUSHL    #6
                         00000000G   EF   9F 01ACE         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01AD4         CALLS    #3,PAS$WRITE_STRING
                         FFFF72AF    EF   9F 01ADB         PUSHAB   C.ARZ
                                     16   DD 01AE1         PUSHL    #22
                         00000000G   EF   9F 01AE3         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01AE9         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01AF0         PUSHAB   CRLF
                                     02   DD 01AF6         PUSHL    #2
                         00000000G   EF   9F 01AF8         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    03   FB 01AFE         CALLS    #3,PAS$WRITE_STRING
                         00000000G   EF   9F 01B05         PUSHAB   PAS$FV_OUTPUT
   00000000G   EF                    01   FB 01B0B         CALLS    #1,PAS$WRITELN2
                                  0000V   31 01B12         BRW      76$
```

```
                  00000000G  EF   9F 01B15 69$:      PUSHAB  SHIFT                              ; 5529
                             04   DD 01B1B           PUSHL   #4
                  00000000G  EF   9F 01B1D           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01B23           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01B2A           PUSHAB  QUES_HINT
                             1F   DD 01B30           PUSHL   #31
                  00000000G  EF   9F 01B32           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01B38           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01B3F           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 01B45           CALLS   #1,PAS$WRITELN2
                          0000V   31 01B4C           BRW     76$
                  00000000   8F   DF 01B4F 71$:      PUSHAL  #0                                 ; 5539
   00000000G  EF             01   FB 01B55           CALLS   #1,CLEAR
00V00000000G  EF             00   E0 01B5C           BBS     #0,FULL_PROMPT,73$                 ; 5541
03 00000000G  EF             00   E0 01B64           BBS     #0,TEMP_FULL_PROMPT,.+3
                          0000V   31 01B6C           BRW     74$
                  00000000G  EF   9F 01B6F 73$:      PUSHAB  SHIFT                              ; 5545
                             04   DD 01B75           PUSHL   #4
                  00000000G  EF   9F 01B77           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01B7D           CALLS   #3,PAS$WRITE_STRING
                  FFFF721C   EF   9F 01B84           PUSHAB  C.ASA
                             02   DD 01B8A           PUSHL   #2
                  00000000G  EF   9F 01B8C           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01B92           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01B99           PUSHAB  ANSI_REVERSE
                             04   DD 01B9F           PUSHL   #4
                  00000000G  EF   9F 01BA1           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01BA7           CALLS   #3,PAS$WRITE_STRING
                  FFFF71F4   EF   9F 01BAE           PUSHAB  C.ASB
                             10   DD 01BB4           PUSHL   #16
                  00000000G  EF   9F 01BB6           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01BBC           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01BC3           PUSHAB  SEC_ATTR
                             16   DD 01BC9           PUSHL   #22
                  00000000G  EF   9F 01BCB           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01BD1           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01BD8           PUSHAB  ANSI_RESET
                             04   DD 01BDE           PUSHL   #4
                  00000000G  EF   9F 01BE0           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01BE6           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01BED           PUSHAB  CRLF
                             02   DD 01BF3           PUSHL   #2
                  00000000G  EF   9F 01BF5           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             03   FB 01BFB           CALLS   #3,PAS$WRITE_STRING
                  00000000G  EF   9F 01C02           PUSHAB  PAS$FV_OUTPUT
   00000000G  EF             01   FB 01C08           CALLS   #1,PAS$WRITELN2
                  000000FC   8F   DD 01C0F           PUSHL   #252                               ; 5552
                             07   DD 01C15           PUSHL   #7
                             04   DD 01C17           PUSHL   #4
                  00000000G  EF   9F 01C19           PUSHAB  SYS$OUTPUT_NAME
                             0B   DD 01C1F           PUSHL   #11
                             01   DD 01C21           PUSHL   #1
                  00000000G  EF   9F 01C23           PUSHAB  FDL_DEST
   00000000G  EF             07   FB 01C29           CALLS   #7,PAS$OPEN2
                  00000000G  EF   9F 01C30           PUSHAB  FDL_DEST                           ; 5554
   00000000G  EF             01   FB 01C36           CALLS   #1,PAS$REWRITE2
                  00000000G  EF   9F 01C3D           PUSHAB  TEST                               ; 5556
   00000000G  EF               01   FB 01C43           CALLS    #1,SHOW_PRIMARY_SECTION
                 00000000G     EF   9F 01C4A           PUSHAB   FDL_DEST                            ; 5558
   00000000G  EF               01   FB 01C50           CALLS    #1,PAS$CLOSE2
                              00V   11 01C57           BRB      76$
                 00000000G     EF   9F 01C59 74$:      PUSHAB   SHIFT                               ; 5564
                               04   DD 01C5F           PUSHL    #4
                 00000000G     EF   9F 01C61           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01C67           CALLS    #3,PAS$WRITE_STRING
                 00000000G     EF   9F 01C6E           PUSHAB   QUES_HINT
                               1F   DD 01C74           PUSHL    #31
                 00000000G     EF   9F 01C76           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01C7C           CALLS    #3,PAS$WRITE_STRING
                 00000000G     EF   9F 01C83           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               01   FB 01C89           CALLS    #1,PAS$WRITELN2
                 00000000G     EF   9F 01C90 76$:      PUSHAB   SHIFT                               ; 5568
                               04   DD 01C96           PUSHL    #4
                 00000000G     EF   9F 01C98           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01C9E           CALLS    #3,PAS$WRITE_STRING
                  FFFF710D     EF   9F 01CA5           PUSHAB   C.ASC
                               22   DD 01CAB           PUSHL    #34
                 00000000G     EF   9F 01CAD           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01CB3           CALLS    #3,PAS$WRITE_STRING
                 00000000G     EF   9F 01CBA           PUSHAB   ANSI_REVERSE
                               04   DD 01CC0           PUSHL    #4
                 00000000G     EF   9F 01CC2           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01CC8           CALLS    #3,PAS$WRITE_STRING
                  FFFF7107     EF   9F 01CCF           PUSHAB   C.ASD
                               03   DD 01CD5           PUSHL    #3
                 00000000G     EF   9F 01CD7           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01CDD           CALLS    #3,PAS$WRITE_STRING
                 00000000G     EF   9F 01CE4           PUSHAB   ANSI_RESET
                               04   DD 01CEA           PUSHL    #4
                 00000000G     EF   9F 01CEC           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01CF2           CALLS    #3,PAS$WRITE_STRING
                  FFFF70E1     EF   9F 01CF9           PUSHAB   C.ASE
                               03   DD 01CFF           PUSHL    #3
                 00000000G     EF   9F 01D01           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01D07           CALLS    #3,PAS$WRITE_STRING
                  00000000     8F   DF 01D0E           PUSHAL   #0                                  ; 5570
                        00     8F   9F 01D14           PUSHAB   #0
          F4  AD 00000000G     EF   9E 01D17           MOVAB    EDF$AB_JOURNAL_TABLE_STA,-12(FP)
                        F4     AD   9F 01D1F           PUSHAB   -12(FP)
          F0  AD 00000000G     EF   9E 01D22           MOVAB    EDF$AB_JOURNAL_TABLE_KEY,-16(FP)
                        F0     AD   9F 01D2A           PUSHAB   -16(FP)
   00000000G  EF               04   FB 01D2D           CALLS    #4,PARSE_INPUT
                            0000V   31 01D34           BRW      126$
03 00000000G  EF               00   E0 01D37 77$:      BBS      #0,FULL_CHOICE,.+3                  ; 5583
                            0000V   31 01D3F           BRW      83$
                  00000000     8F   DF 01D42           PUSHAL   #0                                  ; 5587
   00000000G  EF               01   FB 01D48           CALLS    #1,CLEAR
00V00000000G  EF               00   E0 01D4F           BBS      #0,FULL_PROMPT,80$                  ; 5589
03 00000000G  EF               00   E0 01D57           BBS      #0,TEMP_FULL_PROMPT,.+3
                            0000V   31 01D5F           BRW      81$
                 00000000G     EF   9F 01D62 80$:      PUSHAB   SHIFT                               ; 5593
                               04   DD 01D68           PUSHL    #4
                 00000000G     EF   9F 01D6A           PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 01D70           CALLS    #3,PAS$WRITE_STRING
```

```
                    FFFF7067  EF   9F 01D77          PUSHAB  C.ASF
                              02   DD 01D7D          PUSHL   #2
                    00000000G EF   9F 01D7F          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01D85          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01D8C          PUSHAB  ANSI_REVERSE
                              04   DD 01D92          PUSHL   #4
                    00000000G EF   9F 01D94          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01D9A          CALLS   #3,PAS$WRITE_STRING
                    FFFF7041  EF   9F 01DA1          PUSHAB  C.ASG
                              0A   DD 01DA7          PUSHL   #10
                    00000000G EF   9F 01DA9          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01DAF          CALLS   #3,PAS$WRITE_STRING
                              03   DD 01DB6          PUSHL   #3
                    00000084G EF   DD 01DB8          PUSHL   IDATA+132
                    00000000G EF   9F 01DBE          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01DC4          CALLS   #3,PAS$WRITE_INTEGER
                    00000000G EF   9F 01DCB          PUSHAB  SEC_ATTR
                              16   DD 01DD1          PUSHL   #22
                    00000000G EF   9F 01DD3          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01DD9          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01DE0          PUSHAB  ANSI_RESET
                              04   DD 01DE6          PUSHL   #4
                    00000000G EF   9F 01DE8          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01DEE          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01DF5          PUSHAB  CRLF
                              02   DD 01DFB          PUSHL   #2
                    00000000G EF   9F 01DFD          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E03          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01E0A          PUSHAB  CRLF_SHIFT
                              06   DD 01E10          PUSHL   #6
                    00000000G EF   9F 01E12          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E18          CALLS   #3,PAS$WRITE_STRING
                    FFFF6FCF  EF   9F 01E1F          PUSHAB  C.ASH
                              29   DD 01E25          PUSHL   #41
                    00000000G EF   9F 01E27          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E2D          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01E34          PUSHAB  CRLF_SHIFT
                              06   DD 01E3A          PUSHL   #6
                    00000000G EF   9F 01E3C          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E42          CALLS   #3,PAS$WRITE_STRING
                    FFFF6FD1  EF   9F 01E49          PUSHAB  C.ASI
                              1F   DD 01E4F          PUSHL   #31
                    00000000G EF   9F 01E51          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E57          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01E5E          PUSHAB  CRLF_SHIFT
                              06   DD 01E64          PUSHL   #6
                    00000000G EF   9F 01E66          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E6C          CALLS   #3,PAS$WRITE_STRING
                    FFFF6FC7  EF   9F 01E73          PUSHAB  C.ASJ
                              22   DD 01E79          PUSHL   #34
                    00000000G EF   9F 01E7B          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E81          CALLS   #3,PAS$WRITE_STRING
                    00000000G EF   9F 01E88          PUSHAB  CRLF_SHIFT
                              06   DD 01E8E          PUSHL   #6
                    00000000G EF   9F 01E90          PUSHAB  PAS$FV_OUTPUT
00000000G  EF                 03   FB 01E96          CALLS   #3,PAS$WRITE_STRING
                    FFFF6FC1  EF   9F 01E9D          PUSHAB  C.ASK
```

```
                                       30  DD 01EA3          PUSHL   #48
                          00000000G    EF  9F 01EA5          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01EAB          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01EB2          PUSHAB  CRLF_SHIFT
                                       06  DD 01EB8          PUSHL   #6
                          00000000G    EF  9F 01EBA          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01EC0          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FC7     EF  9F 01EC7          PUSHAB  C.ASL
                                       2F  DD 01ECD          PUSHL   #47
                          00000000G    EF  9F 01ECF          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01ED5          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01EDC          PUSHAB  CRLF_SHIFT
                                       06  DD 01EE2          PUSHL   #6
                          00000000G    EF  9F 01EE4          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01EEA          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FCD     EF  9F 01EF1          PUSHAB  C.ASM
                                       22  DD 01EF7          PUSHL   #34
                          00000000G    EF  9F 01EF9          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01EFF          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01F06          PUSHAB  CRLF_SHIFT
                                       06  DD 01F0C          PUSHL   #6
                          00000000G    EF  9F 01F0E          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F14          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FC7     EF  9F 01F1B          PUSHAB  C.ASN
                                       21  DD 01F21          PUSHL   #33
                          00000000G    EF  9F 01F23          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F29          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01F30          PUSHAB  CRLF_SHIFT
                                       06  DD 01F36          PUSHL   #6
                          00000000G    EF  9F 01F38          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F3E          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FC1     EF  9F 01F45          PUSHAB  C.ASO
                                       2C  DD 01F4B          PUSHL   #44
                          00000000G    EF  9F 01F4D          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F53          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01F5A          PUSHAB  CRLF_SHIFT
                                       06  DD 01F60          PUSHL   #6
                          00000000G    EF  9F 01F62          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F68          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FC3     EF  9F 01F6F          PUSHAB  C.ASP
                                       28  DD 01F75          PUSHL   #40
                          00000000G    EF  9F 01F77          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F7D          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01F84          PUSHAB  CRLF_SHIFT
                                       06  DD 01F8A          PUSHL   #6
                          00000000G    EF  9F 01F8C          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01F92          CALLS   #3,PAS$WRITE_STRING
                          FFFF6FC1     EF  9F 01F99          PUSHAB  C.ASQ
                                       0F  DD 01F9F          PUSHL   #15
                          00000000G    EF  9F 01FA1          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01FA7          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01FAE          PUSHAB  CRLF
                                       02  DD 01FB4          PUSHL   #2
                          00000000G    EF  9F 01FB6          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                03  FB 01FBC          CALLS   #3,PAS$WRITE_STRING
                          00000000G    EF  9F 01FC3          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF                01  FB 01FC9          CALLS   #1,PAS$WRITELN2
```

```
                                      00V  11 01FD0        BRB     82$
                         00000000G    EF   9F 01FD2 81$:   PUSHAB  SHIFT                               ; 5624
                                      04   DD 01FD8        PUSHL   #4
                         00000000G    EF   9F 01FDA        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 01FE0        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 01FE7        PUSHAB  QUES_HINT
                                      1F   DD 01FED        PUSHL   #31
                         00000000G    EF   9F 01FEF        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 01FF5        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 01FFC        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             01   FB 02002        CALLS   #1,PAS$WRITELN2
                                    0000V  31 02009 82$:   BRW     88$
                         00000000     8F   DF 0200C 83$:   PUSHAL  #0                                  ; 5632
            00000000G  EF             01   FB 02012        CALLS   #1,CLEAR
     00V00000000G  EF                 00   E0 02019        BBS     #0,FULL_PROMPT,85$                  ; 5634
     03 00000000G  EF                 00   E0 02021        BBS     #0,TEMP_FULL_PROMPT,.+3
                                    0000V  31 02029        BRW     86$
                         00000000G    EF   9F 0202C 85$:   PUSHAB  SHIFT                               ; 5638
                                      04   DD 02032        PUSHL   #4
                         00000000G    EF   9F 02034        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 0203A        CALLS   #3,PAS$WRITE_STRING
                         FFFF6F29     EF   9F 02041        PUSHAB  C.ASR
                                      02   DD 02047        PUSHL   #2
                         00000000G    EF   9F 02049        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 0204F        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 02056        PUSHAB  ANSI_REVERSE
                                      04   DD 0205C        PUSHL   #4
                         00000000G    EF   9F 0205E        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 02064        CALLS   #3,PAS$WRITE_STRING
                         FFFF6F03     EF   9F 0206B        PUSHAB  C.ASS
                                      0C   DD 02071        PUSHL   #12
                         00000000G    EF   9F 02073        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 02079        CALLS   #3,PAS$WRITE_STRING
                                      03   DD 02080        PUSHL   #3
                         00000084G    EF   DD 02082        PUSHL   IDATA+132
                         00000000G    EF   9F 02088        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 0208E        CALLS   #3,PAS$WRITE_INTEGER
                         00000000G    EF   9F 02095        PUSHAB  SEC_ATTR
                                      16   DD 0209B        PUSHL   #22
                         00000000G    EF   9F 0209D        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 020A3        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 020AA        PUSHAB  ANSI_RESET
                                      04   DD 020B0        PUSHL   #4
                         00000000G    EF   9F 020B2        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 020B8        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 020BF        PUSHAB  CRLF
                                      02   DD 020C5        PUSHL   #2
                         00000000G    EF   9F 020C7        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             03   FB 020CD        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF   9F 020D4        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF             01   FB 020DA        CALLS   #1,PAS$WRITELN2
                         000000FC     8F   DD 020E1        PUSHL   #252                                ; 5647
                                      07   DD 020E7        PUSHL   #7
                                      04   DD 020E9        PUSHL   #4
                         00000000G    EF   9F 020EB        PUSHAB  SYS$OUTPUT_NAME
                                      0B   DD 020F1        PUSHL   #11
                                      01   DD 020F3        PUSHL   #1
```

```
                        00000000G   EF   9F 020F5          PUSHAB  FDL_DEST
          00000000G  EF             07   FB 020FB          CALLS   #7,PAS$OPEN2
                        00000000G   EF   9F 02102          PUSHAB  FDL_DEST                               ; 5649
          00000000G  EF             01   FB 02108          CALLS   #1,PAS$REWRITE2
                        00000000G   EF   9F 0210F          PUSHAB  TEST                                   ; 5651
          00000000G  EF             01   FB 02115          CALLS   #1,SHOW_PRIMARY_SECTION
                        00000000G   EF   9F 0211C          PUSHAB  FDL_DEST                               ; 5653
          00000000G  EF             01   FB 02122          CALLS   #1,PAS$CLOSE2
                                   00V   11 02129          BRB     88$
                        00000000G   EF   9F 0212B 86$:     PUSHAB  SHIFT                                  ; 5659
                                    04   DD 02131          PUSHL   #4
                        00000000G   EF   9F 02133          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 02139          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02140          PUSHAB  QUES_HINT
                                    1F   DD 02146          PUSHL   #31
                        00000000G   EF   9F 02148          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 0214E          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02155          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             01   FB 0215B          CALLS   #1,PAS$WRITELN2
                        00000000G   EF   9F 02162 88$:     PUSHAB  SHIFT                                  ; 5663
                                    04   DD 02168          PUSHL   #4
                        00000000G   EF   9F 0216A          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 02170          CALLS   #3,PAS$WRITE_STRING
                        FFFF6E03    EF   9F 02177          PUSHAB  C.AST
                                    09   DD 0217D          PUSHL   #9
                        00000000G   EF   9F 0217F          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 02185          CALLS   #3,PAS$WRITE_STRING
                                    03   DD 0218C          PUSHL   #3
                        00000084G   EF   DD 0218E          PUSHL   IDATA+132
                        00000000G   EF   9F 02194          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 0219A          CALLS   #3,PAS$WRITE_INTEGER
                        FFFF6DE5    EF   9F 021A1          PUSHAB  C.ASU
                                    15   DD 021A7          PUSHL   #21
                        00000000G   EF   9F 021A9          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 021AF          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 021B6          PUSHAB  ANSI_REVERSE
                                    04   DD 021BC          PUSHL   #4
                        00000000G   EF   9F 021BE          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 021C4          CALLS   #3,PAS$WRITE_STRING
                        FFFF6DD3    EF   9F 021CB          PUSHAB  C.ASV
                                    03   DD 021D1          PUSHL   #3
                        00000000G   EF   9F 021D3          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 021D9          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 021E0          PUSHAB  ANSI_RESET
                                    04   DD 021E6          PUSHL   #4
                        00000000G   EF   9F 021E8          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 021EE          CALLS   #3,PAS$WRITE_STRING
                        FFFF6DAD    EF   9F 021F5          PUSHAB  C.ASW
                                    03   DD 021FB          PUSHL   #3
                        00000000G   EF   9F 021FD          PUSHAB  PAS$FV_OUTPUT
          00000000G  EF             03   FB 02203          CALLS   #3,PAS$WRITE_STRING
                        00000000    8F   DF 0220A          PUSHAL  #0                                     ; 5667
                               00   8F   9F 02210          PUSHAB  #0
                F4   AD 00000000G   EF   9E 02213          MOVAB   EDF$AB_KEY_TABLE_STA,-12(FP)
                               F4   AD   9F 0221B          PUSHAB  -12(FP)
                F0   AD 00000000G   EF   9E 0221E          MOVAB   EDF$AB_KEY_TABLE_KEY,-16(FP)
                               F0   AD   9F 02226          PUSHAB  -16(FP)
```

```
         00000000G  EF                04  FB 02229        CALLS   #4,PARSE_INPUT
                                   0000V  31 02230        BRW     126$
      03 00000000G  EF                00  E0 02233 89$:   BBS     #0,FULL_CHOICE,.+3                      ; 5680
                                   0000V  31 0223B        BRW     95$
                          00000000    8F  DF 0223E        PUSHAL  #0                                      ; 5684
         00000000G  EF                01  FB 02244        CALLS   #1,CLEAR
      00V00000000G  EF                00  E0 0224B        BBS     #0,FULL_PROMPT,92$                      ; 5686
      03 00000000G  EF                00  E0 02253        BBS     #0,TEMP_FULL_PROMPT,.+3
                                   0000V  31 0225B        BRW     93$
                         00000000G    EF  9F 0225E 92$:   PUSHAB  SHIFT                                   ; 5690
                                      04  DD 02264        PUSHL   #4
                         00000000G    EF  9F 02266        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 0226C        CALLS   #3,PAS$WRITE_STRING
                          FFFF6D33    EF  9F 02273        PUSHAB  C.ASX
                                      02  DD 02279        PUSHL   #2
                         00000000G    EF  9F 0227B        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 02281        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 02288        PUSHAB  ANSI_REVERSE
                                      04  DD 0228E        PUSHL   #4
                         00000000G    EF  9F 02290        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 02296        CALLS   #3,PAS$WRITE_STRING
                          FFFF6D0D    EF  9F 0229D        PUSHAB  C.ASY
                                      0D  DD 022A3        PUSHL   #13
                         00000000G    EF  9F 022A5        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 022AB        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 022B2        PUSHAB  SEC_ATTR
                                      16  DD 022B8        PUSHL   #22
                         00000000G    EF  9F 022BA        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 022C0        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 022C7        PUSHAB  ANSI_RESET
                                      04  DD 022CD        PUSHL   #4
                         00000000G    EF  9F 022CF        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 022D5        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 022DC        PUSHAB  CRLF
                                      02  DD 022E2        PUSHL   #2
                         00000000G    EF  9F 022E4        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 022EA        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 022F1        PUSHAB  CRLF_SHIFT
                                      06  DD 022F7        PUSHL   #6
                         00000000G    EF  9F 022F9        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 022FF        CALLS   #3,PAS$WRITE_STRING
                          FFFF6CB4    EF  9F 02306        PUSHAB  C.ASZ
                                      12  DD 0230C        PUSHL   #18
                         00000000G    EF  9F 0230E        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 02314        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 0231B        PUSHAB  CRLF_SHIFT
                                      06  DD 02321        PUSHL   #6
                         00000000G    EF  9F 02323        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 02329        CALLS   #3,PAS$WRITE_STRING
                          FFFF6C9E    EF  9F 02330        PUSHAB  C.ATA
                                      18  DD 02336        PUSHL   #24
                         00000000G    EF  9F 02338        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 0233E        CALLS   #3,PAS$WRITE_STRING
                         00000000G    EF  9F 02345        PUSHAB  CRLF_SHIFT
                                      06  DD 0234B        PUSHL   #6
                         00000000G    EF  9F 0234D        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF                03  FB 02353        CALLS   #3,PAS$WRITE_STRING
```

```
                 FFFF6C8C  EF    9F 0235A           PUSHAB  C.ATB
                           19    DD 02360           PUSHL   #25
                 00000000G EF    9F 02362           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 02368           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 0236F           PUSHAB  CRLF_SHIFT
                           06    DD 02375           PUSHL   #6
                 00000000G EF    9F 02377           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 0237D           CALLS   #3,PAS$WRITE_STRING
                 FFFF6C7E  EF    9F 02384           PUSHAB  C.ATC
                           10    DD 0238A           PUSHL   #16
                 00000000G EF    9F 0238C           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 02392           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 02399           PUSHAB  CRLF_SHIFT
                           06    DD 0239F           PUSHL   #6
                 00000000G EF    9F 023A1           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 023A7           CALLS   #3,PAS$WRITE_STRING
                 FFFF6C64  EF    9F 023AE           PUSHAB  C.ATD
                           0D    DD 023B4           PUSHL   #13
                 00000000G EF    9F 023B6           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 023BC           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 023C3           PUSHAB  CRLF
                           02    DD 023C9           PUSHL   #2
                 00000000G EF    9F 023CB           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 023D1           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 023D8           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        01    FB 023DE           CALLS   #1,PAS$WRITELN2
                        0000V    31 023E5           BRW     100$
                 00000000G EF    9F 023E8 93$:      PUSHAB  SHIFT                                                   ; 5711
                           04    DD 023EE           PUSHL   #4
                 00000000G EF    9F 023F0           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 023F6           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 023FD           PUSHAB  QUES_HINT
                           1F    DD 02403           PUSHL   #31
                 00000000G EF    9F 02405           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 0240B           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 02412           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        01    FB 02418           CALLS   #1,PAS$WRITELN2
                        0000V    31 0241F           BRW     100$
                 00000000  8F    DF 02422 95$:      PUSHAL  #0                                                      ; 5721
      00000000G  EF        01    FB 02428           CALLS   #1,CLEAR
  00V00000000G   EF        00    E0 0242F           BBS     #0,FULL_PROMPT,97$                                      ; 5723
  03 00000000G   EF        00    E0 02437           BBS     #0,TEMP_FULL_PROMPT,.+3
                        0000V    31 0243F           BRW     98$
                 00000000G EF    9F 02442 97$:      PUSHAB  SHIFT                                                   ; 5727
                           04    DD 02448           PUSHL   #4
                 00000000G EF    9F 0244A           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 02450           CALLS   #3,PAS$WRITE_STRING
                 FFFF6BC9  EF    9F 02457           PUSHAB  C.ATE
                           02    DD 0245D           PUSHL   #2
                 00000000G EF    9F 0245F           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 02465           CALLS   #3,PAS$WRITE_STRING
                 00000000G EF    9F 0246C           PUSHAB  ANSI_REVERSE
                           04    DD 02472           PUSHL   #4
                 00000000G EF    9F 02474           PUSHAB  PAS$FV_OUTPUT
      00000000G  EF        03    FB 0247A           CALLS   #3,PAS$WRITE_STRING
                 FFFF6BA1  EF    9F 02481           PUSHAB  C.ATF
                           0F    DD 02487           PUSHL   #15
```

```
                      00000000G  EF   9F 02489        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0248F        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 02496        PUSHAB  SEC_ATTR
                                 16   DD 0249C        PUSHL   #22
                      00000000G  EF   9F 0249E        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 024A4        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 024AB        PUSHAB  ANSI_RESET
                                 04   DD 024B1        PUSHL   #4
                      00000000G  EF   9F 024B3        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 024B9        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 024C0        PUSHAB  CRLF
                                 02   DD 024C6        PUSHL   #2
                      00000000G  EF   9F 024C8        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 024CE        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 024D5        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               01   FB 024DB        CALLS   #1,PAS$WRITELN2
                      000000FC   8F   DD 024E2        PUSHL   #252                                   ; 5734
                                 07   DD 024E8        PUSHL   #7
                                 04   DD 024EA        PUSHL   #4
                      00000000G  EF   9F 024EC        PUSHAB  SYS$OUTPUT_NAME
                                 0B   DD 024F2        PUSHL   #11
                                 01   DD 024F4        PUSHL   #1
                      00000000G  EF   9F 024F6        PUSHAB  FDL_DEST
     00000000G  EF               07   FB 024FC        CALLS   #7,PAS$OPEN2
                      00000000G  EF   9F 02503        PUSHAB  FDL_DEST                               ; 5736
     00000000G  EF               01   FB 02509        CALLS   #1,PAS$REWRITE2
                      00000000G  EF   9F 02510        PUSHAB  TEST                                   ; 5738
     00000000G  EF               01   FB 02516        CALLS   #1,SHOW_PRIMARY_SECTION
                      00000000G  EF   9F 0251D        PUSHAB  FDL_DEST                               ; 5740
     00000000G  EF               01   FB 02523        CALLS   #1,PAS$CLOSE2
                                00V   11 0252A        BRB     100$
                      00000000G  EF   9F 0252C  98$:  PUSHAB  SHIFT                                  ; 5746
                                 04   DD 02532        PUSHL   #4
                      00000000G  EF   9F 02534        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0253A        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 02541        PUSHAB  QUES_HINT
                                 1F   DD 02547        PUSHL   #31
                      00000000G  EF   9F 02549        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0254F        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 02556        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               01   FB 0255C        CALLS   #1,PAS$WRITELN2
                      00000000G  EF   9F 02563 100$:  PUSHAB  SHIFT                                  ; 5750
                                 04   DD 02569        PUSHL   #4
                      00000000G  EF   9F 0256B        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 02571        CALLS   #3,PAS$WRITE_STRING
                      FFFF6ABA   EF   9F 02578        PUSHAB  C.ATG
                                 21   DD 0257E        PUSHL   #33
                      00000000G  EF   9F 02580        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 02586        CALLS   #3,PAS$WRITE_STRING
                      00000000G  EF   9F 0258D        PUSHAB  ANSI_REVERSE
                                 04   DD 02593        PUSHL   #4
                      00000000G  EF   9F 02595        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 0259B        CALLS   #3,PAS$WRITE_STRING
                      FFFF6AB4   EF   9F 025A2        PUSHAB  C.ATH
                                 03   DD 025A8        PUSHL   #3
                      00000000G  EF   9F 025AA        PUSHAB  PAS$FV_OUTPUT
     00000000G  EF               03   FB 025B0        CALLS   #3,PAS$WRITE_STRING
```

```
                          00000000G  EF    9F 025B7        PUSHAB  ANSI_RESET
                                   04    DD 025BD        PUSHL   #4
                          00000000G  EF    9F 025BF        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 025C5        CALLS   #3,PAS$WRITE_STRING
                          FFFF6A8E   EF    9F 025CC        PUSHAB  C.ATI
                                   03    DD 025D2        PUSHL   #3
                          00000000G  EF    9F 025D4        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 025DA        CALLS   #3,PAS$WRITE_STRING
                          00000000   8F    DF 025E1        PUSHAL  #0                                            ; 5752
                                00   8F    9F 025E7        PUSHAB  #0
                F4  AD 00000000G   EF    9E 025EA        MOVAB   EDF$AB_RECORD_TABLE_STA,-12(FP)
                                F4   AD    9F 025F2        PUSHAB  -12(FP)
                F0  AD 00000000G   EF    9E 025F5        MOVAB   EDF$AB_RECORD_TABLE_KEY,-16(FP)
                                F0   AD    9F 025FD        PUSHAB  -16(FP)
         00000000G  EF             04    FB 02600        CALLS   #4,PARSE_INPUT
                               0000V     31 02607        BRW     126$
      03 00000000G  EF             00    E0 0260A 101$:  BBS     #0,FULL_CHOICE,.+3                            ; 5765
                               0000V     31 02612        BRW     107$
                          00000000   8F    DF 02615        PUSHAL  #0                                            ; 5769
         00000000G  EF             01    FB 0261B        CALLS   #1,CLEAR
    00V00000000G  EF             00    E0 02622        BBS     #0,FULL_PROMPT,104$                           ; 5771
      03 00000000G  EF             00    E0 0262A        BBS     #0,TEMP_FULL_PROMPT,.+3
                               0000V     31 02632        BRW     105$
                          00000000G  EF    9F 02635 104$:  PUSHAB  SHIFT                                         ; 5775
                                   04    DD 0263B        PUSHL   #4
                          00000000G  EF    9F 0263D        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 02643        CALLS   #3,PAS$WRITE_STRING
                          FFFF6A14   EF    9F 0264A        PUSHAB  C.ATJ
                                   02    DD 02650        PUSHL   #2
                          00000000G  EF    9F 02652        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 02658        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 0265F        PUSHAB  ANSI_REVERSE
                                   04    DD 02665        PUSHL   #4
                          00000000G  EF    9F 02667        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 0266D        CALLS   #3,PAS$WRITE_STRING
                          FFFF69EE   EF    9F 02674        PUSHAB  C.ATK
                                   0E    DD 0267A        PUSHL   #14
                          00000000G  EF    9F 0267C        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 02682        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 02689        PUSHAB  SEC_ATTR
                                   16    DD 0268F        PUSHL   #22
                          00000000G  EF    9F 02691        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 02697        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 0269E        PUSHAB  ANSI_RESET
                                   04    DD 026A4        PUSHL   #4
                          00000000G  EF    9F 026A6        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 026AC        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 026B3        PUSHAB  CRLF
                                   02    DD 026B9        PUSHL   #2
                          00000000G  EF    9F 026BB        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 026C1        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 026C8        PUSHAB  CRLF_SHIFT
                                   06    DD 026CE        PUSHL   #6
                          00000000G  EF    9F 026D0        PUSHAB  PAS$FV_OUTPUT
         00000000G  EF             03    FB 026D6        CALLS   #3,PAS$WRITE_STRING
                          FFFF6995   EF    9F 026DD        PUSHAB  C.ATL
                                   0F    DD 026E3        PUSHL   #15
```

```
                     00000000G  EF  9F 026E5      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 026EB      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 026F2      PUSHAB  CRLF_SHIFT
                                06  DD 026F8      PUSHL   #6
                     00000000G  EF  9F 026FA      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 02700      CALLS   #3,PAS$WRITE_STRING
                     FFFF697B   EF  9F 02707      PUSHAB  C.ATM
                                0C  DD 0270D      PUSHL   #12
                     00000000G  EF  9F 0270F      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 02715      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 0271C      PUSHAB  CRLF_SHIFT
                                06  DD 02722      PUSHL   #6
                     00000000G  EF  9F 02724      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 0272A      CALLS   #3,PAS$WRITE_STRING
                     FFFF695D   EF  9F 02731      PUSHAB  C.ATN
                                13  DD 02737      PUSHL   #19
                     00000000G  EF  9F 02739      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 0273F      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 02746      PUSHAB  CRLF_SHIFT
                                06  DD 0274C      PUSHL   #6
                     00000000G  EF  9F 0274E      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 02754      CALLS   #3,PAS$WRITE_STRING
                     FFFF6947   EF  9F 0275B      PUSHAB  C.ATO
                                10  DD 02761      PUSHL   #16
                     00000000G  EF  9F 02763      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 02769      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 02770      PUSHAB  CRLF_SHIFT
                                06  DD 02776      PUSHL   #6
                     00000000G  EF  9F 02778      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 0277E      CALLS   #3,PAS$WRITE_STRING
                     FFFF692D   EF  9F 02785      PUSHAB  C.ATP
                                0C  DD 0278B      PUSHL   #12
                     00000000G  EF  9F 0278D      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 02793      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 0279A      PUSHAB  CRLF_SHIFT
                                06  DD 027A0      PUSHL   #6
                     00000000G  EF  9F 027A2      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 027A8      CALLS   #3,PAS$WRITE_STRING
                     FFFF690F   EF  9F 027AF      PUSHAB  C.ATQ
                                0F  DD 027B5      PUSHL   #15
                     00000000G  EF  9F 027B7      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 027BD      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 027C4      PUSHAB  CRLF_SHIFT
                                06  DD 027CA      PUSHL   #6
                     00000000G  EF  9F 027CC      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 027D2      CALLS   #3,PAS$WRITE_STRING
                     FFFF68F5   EF  9F 027D9      PUSHAB  C.ATR
                                16  DD 027DF      PUSHL   #22
                     00000000G  EF  9F 027E1      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 027E7      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 027EE      PUSHAB  CRLF
                                02  DD 027F4      PUSHL   #2
                     00000000G  EF  9F 027F6      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  03  FB 027FC      CALLS   #3,PAS$WRITE_STRING
                     00000000G  EF  9F 02803      PUSHAB  PAS$FV_OUTPUT
 00000000G  EF                  01  FB 02809      CALLS   #1,PAS$WRITELN2
                           0000V    31 02810      BRW     112$
```

```
                          00000000G  EF    9F 02813 105$:  PUSHAB  SHIFT                                       ; 5798
                                 04        DD 02819        PUSHL   #4
                          00000000G  EF    9F 0281B        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 02821        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 02828        PUSHAB  QUES_HINT
                                 1F        DD 0282E        PUSHL   #31
                          00000000G  EF    9F 02830        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 02836        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 0283D        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        01        FB 02843        CALLS   #1,PAS$WRITELN2
                              0000V  31       0284A        BRW     112$
                          00000000   8F    DF 0284D 107$:  PUSHAL  #0                                          ; 5806
            00000000G  EF        01        FB 02853        CALLS   #1,CLEAR
          00V00000000G  EF        00       E0 0285A        BBS     #0,FULL_PROMPT,109$                         ; 5808
          03 00000000G  EF        00       E0 02862        BBS     #0,TEMP_FULL_PROMPT,.+3
                              0000V  31       0286A        BRW     110$
                          00000000G  EF    9F 0286D 109$:  PUSHAB  SHIFT                                       ; 5812
                                 04        DD 02873        PUSHL   #4
                          00000000G  EF    9F 02875        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 0287B        CALLS   #3,PAS$WRITE_STRING
                          FFFF6862   EF    9F 02882        PUSHAB  C.ATS
                                 02        DD 02888        PUSHL   #2
                          00000000G  EF    9F 0288A        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 02890        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 02897        PUSHAB  ANSI_REVERSE
                                 04        DD 0289D        PUSHL   #4
                          00000000G  EF    9F 0289F        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 028A5        CALLS   #3,PAS$WRITE_STRING
                          FFFF683A   EF    9F 028AC        PUSHAB  C.ATT
                                 10        DD 028B2        PUSHL   #16
                          00000000G  EF    9F 028B4        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 028BA        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 028C1        PUSHAB  SEC_ATTR
                                 16        DD 028C7        PUSHL   #22
                          00000000G  EF    9F 028C9        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 028CF        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 028D6        PUSHAB  ANSI_RESET
                                 04        DD 028DC        PUSHL   #4
                          00000000G  EF    9F 028DE        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 028E4        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 028EB        PUSHAB  CRLF
                                 02        DD 028F1        PUSHL   #2
                          00000000G  EF    9F 028F3        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        03        FB 028F9        CALLS   #3,PAS$WRITE_STRING
                          00000000G  EF    9F 02900        PUSHAB  PAS$FV_OUTPUT
            00000000G  EF        01        FB 02906        CALLS   #1,PAS$WRITELN2
                          000000FC   8F    DD 0290D        PUSHL   #252                                        ; 5819
                                 07        DD 02913        PUSHL   #7
                                 04        DD 02915        PUSHL   #4
                          00000000G  EF    9F 02917        PUSHAB  SYS$OUTPUT_NAME
                                 0B        DD 0291D        PUSHL   #11
                                 01        DD 0291F        PUSHL   #1
                          00000000G  EF    9F 02921        PUSHAB  FDL_DEST
            00000000G  EF        07        FB 02927        CALLS   #7,PAS$OPEN2
                          00000000G  EF    9F 0292E        PUSHAB  FDL_DEST                                    ; 5821
            00000000G  EF        01        FB 02934        CALLS   #1,PAS$REWRITE2
                          00000000G  EF    9F 0293B        PUSHAB  TEST                                        ; 5823
```

```
           00000000G  EF             01  FB 02941        CALLS    #1,SHOW_PRIMARY_SECTION
                      00000000G      EF  9F 02948        PUSHAB   FDL_DEST                                  ; 5825
           00000000G  EF             01  FB 0294E        CALLS    #1,PAS$CLOSE2
                                    00V  11 02955        BRB      112$
                      00000000G      EF  9F 02957 110$:  PUSHAB   SHIFT                                     ; 5831
                                     04  DD 0295D        PUSHL    #4
                      00000000G      EF  9F 0295F        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 02965        CALLS    #3,PAS$WRITE_STRING
                      00000000G      EF  9F 0296C        PUSHAB   QUES_HINT
                                     1F  DD 02972        PUSHL    #31
                      00000000G      EF  9F 02974        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 0297A        CALLS    #3,PAS$WRITE_STRING
                      00000000G      EF  9F 02981        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             01  FB 02987        CALLS    #1,PAS$WRITELN2
                      00000000G      EF  9F 0298E 112$:  PUSHAB   SHIFT                                     ; 5835
                                     04  DD 02994        PUSHL    #4
                      00000000G      EF  9F 02996        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 0299C        CALLS    #3,PAS$WRITE_STRING
                      FFFF6753       EF  9F 029A3        PUSHAB   C.ATU
                                     22  DD 029A9        PUSHL    #34
                      00000000G      EF  9F 029AB        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 029B1        CALLS    #3,PAS$WRITE_STRING
                      00000000G      EF  9F 029B8        PUSHAB   ANSI_REVERSE
                                     04  DD 029BE        PUSHL    #4
                      00000000G      EF  9F 029C0        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 029C6        CALLS    #3,PAS$WRITE_STRING
                      FFFF674D       EF  9F 029CD        PUSHAB   C.ATV
                                     03  DD 029D3        PUSHL    #3
                      00000000G      EF  9F 029D5        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 029DB        CALLS    #3,PAS$WRITE_STRING
                      00000000G      EF  9F 029E2        PUSHAB   ANSI_RESET
                                     04  DD 029E8        PUSHL    #4
                      00000000G      EF  9F 029EA        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 029F0        CALLS    #3,PAS$WRITE_STRING
                      FFFF6727       EF  9F 029F7        PUSHAB   C.ATW
                                     03  DD 029FD        PUSHL    #3
                      00000000G      EF  9F 029FF        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 02A05        CALLS    #3,PAS$WRITE_STRING
                      00000000       8F  DF 02A0C        PUSHAL   #0                                        ; 5837
                             00      8F  9F 02A12        PUSHAB   #0
                  F4  AD 00000000G   EF  9E 02A15        MOVAB    EDF$AB_SHARING_TABLE_STA,-12(FP)
                             F4      AD  9F 02A1D        PUSHAB   -12(FP)
                  F0  AD 00000000G   EF  9E 02A20        MOVAB    EDF$AB_SHARING_TABLE_KEY,-16(FP)
                             F0      AD  9F 02A28        PUSHAB   -16(FP)
           00000000G  EF             04  FB 02A2B        CALLS    #4,PARSE_INPUT
                                  0000V  31 02A32        BRW      126$
        03 00000000G  EF             00  E0 02A35 113$:  BBS      #0,FULL_CHOICE,.+3                        ; 5850
                                  0000V  31 02A3D        BRW      119$
                      00000000       8F  DF 02A40        PUSHAL   #0                                        ; 5854
           00000000G  EF             01  FB 02A46        CALLS    #1,CLEAR
      00V00000000G    EF             00  E0 02A4D        BBS      #0,FULL_PROMPT,116$                       ; 5856
        03 00000000G  EF             00  E0 02A55        BBS      #0,TEMP_FULL_PROMPT,.+3
                                  0000V  31 02A5D        BRW      117$
                      00000000G      EF  9F 02A60 116$:  PUSHAB   SHIFT                                     ; 5860
                                     04  DD 02A66        PUSHL    #4
                      00000000G      EF  9F 02A68        PUSHAB   PAS$FV_OUTPUT
           00000000G  EF             03  FB 02A6E        CALLS    #3,PAS$WRITE_STRING
```

```
                        FFFF66AD   EF   9F 02A75          PUSHAB  C.ATX
                               02   DD 02A7B          PUSHL   #2
                        00000000G  EF   9F 02A7D          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A83          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02A8A          PUSHAB  ANSI_REVERSE
                               04   DD 02A90          PUSHL   #4
                        00000000G  EF   9F 02A92          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02A98          CALLS   #3,PAS$WRITE_STRING
                        FFFF6687   EF   9F 02A9F          PUSHAB  C.ATY
                               0D   DD 02AA5          PUSHL   #13
                        00000000G  EF   9F 02AA7          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02AAD          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02AB4          PUSHAB  SEC_ATTR
                               16   DD 02ABA          PUSHL   #22
                        00000000G  EF   9F 02ABC          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02AC2          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02AC9          PUSHAB  ANSI_RESET
                               04   DD 02ACF          PUSHL   #4
                        00000000G  EF   9F 02AD1          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02AD7          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02ADE          PUSHAB  CRLF
                               02   DD 02AE4          PUSHL   #2
                        00000000G  EF   9F 02AE6          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02AEC          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02AF3          PUSHAB  CRLF_SHIFT
                               06   DD 02AF9          PUSHL   #6
                        00000000G  EF   9F 02AFB          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B01          CALLS   #3,PAS$WRITE_STRING
                        FFFF662E   EF   9F 02B08          PUSHAB  C.ATZ
                               0F   DD 02B0E          PUSHL   #15
                        00000000G  EF   9F 02B10          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B16          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02B1D          PUSHAB  CRLF_SHIFT
                               06   DD 02B23          PUSHL   #6
                        00000000G  EF   9F 02B25          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B2B          CALLS   #3,PAS$WRITE_STRING
                        FFFF6614   EF   9F 02B32          PUSHAB  C.AUA
                               10   DD 02B38          PUSHL   #16
                        00000000G  EF   9F 02B3A          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B40          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02B47          PUSHAB  CRLF_SHIFT
                               06   DD 02B4D          PUSHL   #6
                        00000000G  EF   9F 02B4F          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B55          CALLS   #3,PAS$WRITE_STRING
                        FFFF65FA   EF   9F 02B5C          PUSHAB  C.AUB
                               10   DD 02B62          PUSHL   #16
                        00000000G  EF   9F 02B64          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B6A          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02B71          PUSHAB  CRLF
                               02   DD 02B77          PUSHL   #2
                        00000000G  EF   9F 02B79          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              03   FB 02B7F          CALLS   #3,PAS$WRITE_STRING
                        00000000G  EF   9F 02B86          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF              01   FB 02B8C          CALLS   #1,PAS$WRITELN2
                             0000V  31 02B93          BRW     124$
                        00000000G  EF   9F 02B96 117$:    PUSHAB  SHIFT                                       ; 5875
                               04   DD 02B9C          PUSHL   #4
                        00000000G   EF   9F 02B9E          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02BA4          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02BAB          PUSHAB  QUES_HINT
                                    1F   DD 02BB1          PUSHL   #31
                        00000000G   EF   9F 02BB3          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02BB9          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02BC0          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              01   FB 02BC6          CALLS   #1,PAS$WRITELN2
                                0000V    31 02BCD          BRW     124$
                        00000000    8F   DF 02BD0 119$:    PUSHAL  #0                                        ; 5883
          00000000G EF              01   FB 02BD6          CALLS   #1,CLEAR
       00V00000000G EF              00   E0 02BDD          BBS     #0,FULL_PROMPT,121$                       ; 5885
       03 00000000G EF              00   E0 02BE5          BBS     #0,TEMP_FULL_PROMPT,.+3
                                0000V    31 02BED          BRW     122$
                        00000000G   EF   9F 02BF0 121$:    PUSHAB  SHIFT                                     ; 5889
                                    04   DD 02BF6          PUSHL   #4
                        00000000G   EF   9F 02BF8          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02BFE          CALLS   #3,PAS$WRITE_STRING
                        FFFF6561    EF   9F 02C05          PUSHAB  C.AUC
                                    02   DD 02C0B          PUSHL   #2
                        00000000G   EF   9F 02C0D          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C13          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02C1A          PUSHAB  ANSI_REVERSE
                                    04   DD 02C20          PUSHL   #4
                        00000000G   EF   9F 02C22          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C28          CALLS   #3,PAS$WRITE_STRING
                        FFFF653B    EF   9F 02C2F          PUSHAB  C.AUD
                                    0F   DD 02C35          PUSHL   #15
                        00000000G   EF   9F 02C37          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C3D          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02C44          PUSHAB  SEC_ATTR
                                    16   DD 02C4A          PUSHL   #22
                        00000000G   EF   9F 02C4C          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C52          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02C59          PUSHAB  ANSI_RESET
                                    04   DD 02C5F          PUSHL   #4
                        00000000G   EF   9F 02C61          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C67          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02C6E          PUSHAB  CRLF
                                    02   DD 02C74          PUSHL   #2
                        00000000G   EF   9F 02C76          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              03   FB 02C7C          CALLS   #3,PAS$WRITE_STRING
                        00000000G   EF   9F 02C83          PUSHAB  PAS$FV_OUTPUT
          00000000G EF              01   FB 02C89          CALLS   #1,PAS$WRITELN2
                        000000FC    8F   DD 02C90          PUSHL   #252                                      ; 5896
                                    07   DD 02C96          PUSHL   #7
                                    04   DD 02C98          PUSHL   #4
                        00000000G   EF   9F 02C9A          PUSHAB  SYS$OUTPUT_NAME
                                    0B   DD 02CA0          PUSHL   #11
                                    01   DD 02CA2          PUSHL   #1
                        00000000G   EF   9F 02CA4          PUSHAB  FDL_DEST
          00000000G EF              07   FB 02CAA          CALLS   #7,PAS$OPEN2
                        00000000G   EF   9F 02CB1          PUSHAB  FDL_DEST                                  ; 5898
          00000000G EF              01   FB 02CB7          CALLS   #1,PAS$REWRITE2
                        00000000G   EF   9F 02CBE          PUSHAB  TEST                                      ; 5900
          00000000G EF              01   FB 02CC4          CALLS   #1,SHOW_PRIMARY_SECTION
                        00000000G   EF   9F 02CCB          PUSHAB  FDL_DEST                                  ; 5902
```

```
00000000G  EF                  01    FB 02CD1         CALLS   #1,PAS$CLOSE2
                               00V   11 02CD8         BRB     124$
               00000000G       EF    9F 02CDA 122$:   PUSHAB  SHIFT                                    ; 5908
                               04    DD 02CE0         PUSHL   #4
               00000000G       EF    9F 02CE2         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02CE8         CALLS   #3,PAS$WRITE_STRING
               00000000G       EF    9F 02CEF         PUSHAB  QUES_HINT
                               1F    DD 02CF5         PUSHL   #31
               00000000G       EF    9F 02CF7         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02CFD         CALLS   #3,PAS$WRITE_STRING
               00000000G       EF    9F 02D04         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  01    FB 02D0A         CALLS   #1,PAS$WRITELN2
               00000000G       EF    9F 02D11 124$:   PUSHAB  SHIFT                                    ; 5912
                               04    DD 02D17         PUSHL   #4
               00000000G       EF    9F 02D19         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D1F         CALLS   #3,PAS$WRITE_STRING
               FFFF6454        EF    9F 02D26         PUSHAB  C.AUE
                               21    DD 02D2C         PUSHL   #33
               00000000G       EF    9F 02D2E         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D34         CALLS   #3,PAS$WRITE_STRING
               00000000G       EF    9F 02D3B         PUSHAB  ANSI_REVERSE
                               04    DD 02D41         PUSHL   #4
               00000000G       EF    9F 02D43         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D49         CALLS   #3,PAS$WRITE_STRING
               FFFF644E        EF    9F 02D50         PUSHAB  C.AUF
                               03    DD 02D56         PUSHL   #3
               00000000G       EF    9F 02D58         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D5E         CALLS   #3,PAS$WRITE_STRING
               00000000G       EF    9F 02D65         PUSHAB  ANSI_RESET
                               04    DD 02D6B         PUSHL   #4
               00000000G       EF    9F 02D6D         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D73         CALLS   #3,PAS$WRITE_STRING
               FFFF6428        EF    9F 02D7A         PUSHAB  C.AUG
                               03    DD 02D80         PUSHL   #3
               00000000G       EF    9F 02D82         PUSHAB  PAS$FV_OUTPUT
00000000G  EF                  03    FB 02D88         CALLS   #3,PAS$WRITE_STRING
               00000000        8F    DF 02D8F         PUSHAL  #0                                       ; 5914
                      00       8F    9F 02D95         PUSHAB  #0
       F4  AD  00000000G       EF    9E 02D98         MOVAB   EDF$AB_SYSTEM_TABLE_STA,-12(FP)
                      F4       AD    9F 02DA0         PUSHAB  -12(FP)
       F0  AD  00000000G       EF    9E 02DA3         MOVAB   EDF$AB_SYSTEM_TABLE_KEY,-16(FP)
                      F0       AD    9F 02DAB         PUSHAB  -16(FP)
00000000G  EF                  04    FB 02DAE         CALLS   #4,PARSE_INPUT
                               00V   11 02DB5         BRB     126$
                                        02DB7 125$:
            0F 00000019G       EF    91 02DB7 126$:   CMPB    TEST+25,#15                              ; 5929
                               00V   13 02DBE         BEQL    128$
00000000G  EF                  01    90 02DC0         MOVB    #1,TEST                                  ; 5931
0000001EG  EF  00000000G       EF    90 02DC7 128$:   MOVB    INPUT_VALUE,TEST+30                      ; 5933
       87  8F  0000001EG       EF    91 02DD2         CMPB    TEST+30,#-121                            ; 5940
                               00V   12 02DDA         BNEQ    130$
0000001FG  EF                  07    D0 02DDC         MOVL    #7,TEST+31                               ; 5942
                               00V   11 02DE3         BRB     131$
0000001FG  EF  00000000G       EF    D0 02DE5 130$:   MOVL    EDF$GL_SECNUM,TEST+31                    ; 5946
               0000001FG       EF    D5 02DF0 131$:   TSTL    TEST+3T                                  ; 5948
                               00V   19 02DF6         BLSS    133$
            07 0000001FG       EF    D1 02DF8         CMPL    TEST+31,#7
```

```
                                         00V   15 02DFF         BLEQ    134$
                                         00    DD 02E01 133$:   PUSHL   #0                          ; 5954
                                         00    DD 02E03         PUSHL   #0
                                         00    DD 02E05         PUSHL   #0
                          00B38038       8F    DD 02E07         PUSHL   #11763768
             00000000G  EF               04    FB 02E0D         CALLS   #4,LIB$SIGNAL
          03 00000000G  EF               00    E1 02E14 134$:   BBC     #0,FULL_CHOICE,.+3          ; 5959
                                       0000V   31 02E1C         BRW     147$
             00000000G  EF  00000000G    EF    D0 02E1F         MOVL    DEF_HEAD,DEF_CURRENT        ; 5963
                                  01     8F    9F 02E2A 136$:   PUSHAB  #1                          ; 5967
                          00000000G      EF    9F 02E2D         PUSHAB  TEST
             00000000G  EF               02    FB 02E33         CALLS   #2,CURRENT_EQ_TEST
                        00V              50    E8 02E3A         BLBS    R0,138$
             00000000G  EF               00    FB 02E3D         CALLS   #0,INCR_CURRENT             ; 5969
                                  01     8F    9F 02E44 138$:   PUSHAB  #1
                          00000000G      EF    9F 02E47         PUSHAB  TEST
             00000000G  EF               02    FB 02E4D         CALLS   #2,CURRENT_EQ_TEST
                                         51    94 02E54         CLRB    R1
                       5C 00000000G      EF    D0 02E56         MOVL    DEF_CURRENT,R12
                                  01     AC    D5 02E5D         TSTL    1(R12)
                                         00V   12 02E60         BNEQ    140$
                                         51    96 02E62         INCB    R1
                        51               50    88 02E64 140$:   BISB2   R0,R1
                        C0               51    E9 02E67         BLBC    R1,136$
                          00000000G      EF    D5 02E6A         TSTL    DEF_CURRENT                 ; 5973
                                         00V   13 02E70         BEQL    145$
                                  01     8F    9F 02E72         PUSHAB  #1                          ; 5977
                          00000000G      EF    9F 02E75         PUSHAB  TEST
             00000000G  EF               02    FB 02E7B         CALLS   #2,CURRENT_EQ_TEST
                        00V              50    E8 02E82         BLBS    R0,147$
                                         00    DD 02E85         PUSHL   #0                          ; 5979
                                         00    DD 02E87         PUSHL   #0
                                         00    DD 02E89         PUSHL   #0
                          00B38038       8F    DD 02E8B         PUSHL   #11763768
             00000000G  EF               04    FB 02E91         CALLS   #4,LIB$SIGNAL
                                         00V   11 02E98         BRB     147$
                                         00    DD 02E9A 145$:   PUSHL   #0                          ; 5985
                                         00    DD 02E9C         PUSHL   #0
                                         00    DD 02E9E         PUSHL   #0
                          00B38038       8F    DD 02EA0         PUSHL   #11763768
             00000000G  EF               04    FB 02EA6         CALLS   #4,LIB$SIGNAL
                          00000000G      EF    94 02EAD 147$:   CLRB    TEMP_FULL_PROMPT            ; 5992
                                               04 02EB3         RET                                 ; 5994

; Routine Size: 11956 bytes,    Routine Base: $CODE + 0A990

                                                 00000 ASK_TEST_SECONDARY_VALUE:                    ; 6056
                                          0000   00000          .WORD   ^M<>
                        5E      FEED     CE    9E 00002         MOVAB   -275(SP),SP
                        0F 00000019G     EF    91 00007         CMPB    TEST+25,#15                 ; 6750
                                         00V   12 0000E         BNEQ    2$
                          00000000G      EF    94 00010         CLRB    TEST                        ; 6752
                                         00V   11 00016         BRB     4$
             00000000G  EF               01    90 00018 2$:     MOVB    #1,TEST                     ; 6756
                        51               5D    D0 0001F 4$:     MOVL    FP,R1                       ; 6763
                   00V  AF               00    FB 00022         CALLS   #0,THE_QUESTION
          F1 00000000G  EF               00    E0 00026         BBS     #0,SYS$INPUT_ERROR,4$
```

```
                                          00000000G  EF    9F 0002E         PUSHAB  INPUT_DESC                                ; 6767
                            00000000G   EF           01    FB 00034         CALLS   #1,STR$FREE1_DX
                                                           04 0003B         RET                                               ; 6769

; Routine Size: 60 bytes,     Routine Base: $CODE + 0D844

                                                              00000 THE_QUESTION:                                              ; 6065
                                                        001C 00000         .WORD   ^M<R2,R3,R4>
                                       5E            10    C2 00002         SUBL2   #16,SP
                                                 F8  AD    D4 00005         CLRL    -8(FP)
                                       6D 00000000G  EF    9E 00008         MOVAB   PAS$HANDLER,(FP)
                                       5C            51    D0 0000F         MOVL    R1,R12
                                          00000000G  EF    94 00012         CLRB    SYS$INPUT_ERROR                           ; 6072
                                  F8   AD 00000000G  EF    9E 00018         MOVAB   SYS$INPUT_COND_HANDLER,FP-8               ; 6073
                         00V00000000G   EF           00    E1 00020         BBC     #0,TEMP_FULL_PROMPT,2$                    ; 6075
                                          00000000G  EF    9F 00028         PUSHAB  SHIFT                                     ; 6077
                                                     04    DD 0002E         PUSHL   #4
                                          00000000G  EF    9F 00030         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 00036         CALLS   #3,PAS$WRITE_STRING
                                          FFFF6279   EF    9F 0003D         PUSHAB  C.AUH
                                                     32    DD 00043         PUSHL   #50
                                          00000000G  EF    9F 00045         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 0004B         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF    9F 00052         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           01    FB 00058         CALLS   #1,PAS$WRITELN2
                                       07 00000019G  EF    91 0005F 2$:     CMPB    TEST+25,#7                                ; 6083
                                                    00V    12 00066         BNEQ    4$
                                          00000000G  EF    9F 00068         PUSHAB  CRLF_SHIFT                                ; 6085
                                                     06    DD 0006E         PUSHL   #6
                                          00000000G  EF    9F 00070         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 00076         CALLS   #3,PAS$WRITE_STRING
                                          FFFF626D   EF    9F 0007D         PUSHAB  C.AUI
                                                     19    DD 00083         PUSHL   #25
                                          00000000G  EF    9F 00085         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 0008B         CALLS   #3,PAS$WRITE_STRING
                                       21 0000001EG  EF    91 00092 4$:     CMPB    TEST+30,#33                               ; 6088
                                                     03    13 00099         BEQL    .+3
                                                  0000V    31 0009B         BRW     6$
                                          00000000G  EF    9F 0009E         PUSHAB  CRLF_SHIFT                                ; 6090
                                                     06    DD 000A4         PUSHL   #6
                                          00000000G  EF    9F 000A6         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 000AC         CALLS   #3,PAS$WRITE_STRING
                                          FFFF6253   EF    9F 000B3         PUSHAB  C.AUJ
                                                     28    DD 000B9         PUSHL   #40
                                          00000000G  EF    9F 000BB         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 000C1         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF    9F 000C8         PUSHAB  CRLF_SHIFT
                                                     06    DD 000CE         PUSHL   #6
                                          00000000G  EF    9F 000D0         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 000D6         CALLS   #3,PAS$WRITE_STRING
                                          FFFF6251   EF    9F 000DD         PUSHAB  C.AUK
                                                     16    DD 000E3         PUSHL   #22
                                          00000000G  EF    9F 000E5         PUSHAB  PAS$FV_OUTPUT
                            00000000G   EF           03    FB 000EB         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF    9F 000F2         PUSHAB  CRLF_SHIFT
                                                     06    DD 000F8         PUSHL   #6
                                          00000000G  EF    9F 000FA         PUSHAB  PAS$FV_OUTPUT
```

```
         00000000G  EF              03   FB 00100         CALLS    #3,PAS$WRITE_STRING
                        FFFF623F    EF   9F 00107         PUSHAB   C.AUL
                                    1A   DD 0010D         PUSHL    #26
                        00000000G   EF   9F 0010F         PUSHAB   PAS$FV_OUTPUT
         00000000G  EF              03   FB 00115         CALLS    #3,PAS$WRITE_STRING
                                   00V   11 0011C         BRB      9$
                     50 0000001EG   EF   9A 0011E 6$:     MOVZBL   TEST+30,R0                       ; 6095
                     50             04   C4 00125         MULL2    #4,R0
                     50             02   C0 00128         ADDL2    #2,R0
    00V00000000G    EF              50   E0 0012B         BBS      R0,SEC_TYPE,8$
                        00000000G   EF   9F 00133         PUSHAB   CRLF_SHIFT                       ; 6097
                                    06   DD 00139         PUSHL    #6
                        00000000G   EF   9F 0013B         PUSHAB   PAS$FV_OUTPUT
         00000000G  EF              03   FB 00141         CALLS    #3,PAS$WRITE_STRING
                        FFFF621A    EF   9F 00148         PUSHAB   C.AUM
                                    20   DD 0014E         PUSHL    #32
                        00000000G   EF   9F 00150         PUSHAB   PAS$FV_OUTPUT
         00000000G  EF              03   FB 00156         CALLS    #3,PAS$WRITE_STRING
                                        0015D 8$:
                     50 0000001EG   EF   9A 0015D 9$:     MOVZBL   TEST+30,R0                       ; 6099
                     50             04   C4 00164         MULL2    #4,R0
                     50             02   C0 00167         ADDL2    #2,R0
    03 00000000G    EF              50   E0 0016A         BBS      R0,SEC_TYPE,.+3
                                 0000V   31 00172         BRW      27$
                     50 0000001EG   EF   9A 00175         MOVZBL   TEST+30,R0                       ; 6103
    34          62  8F              50   8F 0017C         CASEB    R0,#98,#52
                                 0000V      00181         .DISPL   11$
                                 006A       00183         .DISPL   106
                                 006A       00185         .DISPL   106
                                 006A       00187         .DISPL   106
                                 006A       00189         .DISPL   106
                                 006A       0018B         .DISPL   106
                                 006A       0018D         .DISPL   106
                                 006A       0018F         .DISPL   106
                                 006A       00191         .DISPL   106
                                 006A       00193         .DISPL   106
                                 006A       00195         .DISPL   106
                                 006A       00197         .DISPL   106
                                 006A       00199         .DISPL   106
                                 006A       0019B         .DISPL   106
                                 006A       0019D         .DISPL   106
                                 006A       0019F         .DISPL   106
                                 006A       001A1         .DISPL   106
                                 006A       001A3         .DISPL   106
                                 006A       001A5         .DISPL   106
                                 006A       001A7         .DISPL   106
                                 0000V      001A9         .DISPL   13$
                                 006A       001AB         .DISPL   106
                                 006A       001AD         .DISPL   106
                                 006A       001AF         .DISPL   106
                                 006A       001B1         .DISPL   106
                                 006A       001B3         .DISPL   106
                                 006A       001B5         .DISPL   106
                                 006A       001B7         .DISPL   106
                                 006A       001B9         .DISPL   106
                                 006A       001BB         .DISPL   106
                                 006A       001BD         .DISPL   106
```

```
                                006A        001BF         .DISPL  106
                                006A        001C1         .DISPL  106
                                006A        001C3         .DISPL  106
                                006A        001C5         .DISPL  106
                                006A        001C7         .DISPL  106
                                006A        001C9         .DISPL  106
                                0000V       001CB         .DISPL  16$
                                006A        001CD         .DISPL  106
                                0000V       001CF         .DISPL  14$
                                006A        001D1         .DISPL  106
                                0000V       001D3         .DISPL  15$
                                006A        001D5         .DISPL  106
                                006A        001D7         .DISPL  106
                                006A        001D9         .DISPL  106
                                006A        001DB         .DISPL  106
                                006A        001DD         .DISPL  106
                                006A        001DF         .DISPL  106
                                006A        001E1         .DISPL  106
                                006A        001E3         .DISPL  106
                                006A        001E5         .DISPL  106
                                0000V       001E7         .DISPL  12$
                                0000V       001E9         .DISPL  12$
                                0000V   31  001EB         BRW     17$
                    00000000G   EF      9F  001EE  11$:   PUSHAB  CRLF_SHIFT                  ; 6107
                                06      DD  001F4         PUSHL   #6
                    00000000G   EF      9F  001F6         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  001FC         CALLS   #3,PAS$WRITE_STRING
                    FFFF617F    EF      9F  00203         PUSHAB  C.AUN
                                1D      DD  00209         PUSHL   #29
                    00000000G   EF      9F  0020B         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  00211         CALLS   #3,PAS$WRITE_STRING
                               0000V    31  00218         BRW     18$
                    00000000G   EF      9F  0021B  12$:   PUSHAB  CRLF_SHIFT                  ; 6113
                                06      DD  00221         PUSHL   #6
                    00000000G   EF      9F  00223         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  00229         CALLS   #3,PAS$WRITE_STRING
                    FFFF6172    EF      9F  00230         PUSHAB  C.AUO
                                2F      DD  00236         PUSHL   #47
                    00000000G   EF      9F  00238         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  0023E         CALLS   #3,PAS$WRITE_STRING
                               0000V    31  00245         BRW     18$
                    00000000G   EF      9F  00248  13$:   PUSHAB  CRLF_SHIFT                  ; 6118
                                06      DD  0024E         PUSHL   #6
                    00000000G   EF      9F  00250         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  00256         CALLS   #3,PAS$WRITE_STRING
                    FFFF6175    EF      9F  0025D         PUSHAB  C.AUP
                                3E      DD  00263         PUSHL   #62
                    00000000G   EF      9F  00265         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  0026B         CALLS   #3,PAS$WRITE_STRING
                               0000V    31  00272         BRW     18$
                    00000000G   EF      9F  00275  14$:   PUSHAB  CRLF_SHIFT                  ; 6123
                                06      DD  0027B         PUSHL   #6
                    00000000G   EF      9F  0027D         PUSHAB  PAS$FV_OUTPUT
     00000000G  EF              03      FB  00283         CALLS   #3,PAS$WRITE_STRING
                    FFFF6188    EF      9F  0028A         PUSHAB  C.AUQ
                                24      DD  00290         PUSHL   #36
                    00000000G   EF      9F  00292         PUSHAB  PAS$FV_OUTPUT
```

```
        00000000G  EF                03  FB 00298          CALLS   #3,PAS$WRITE_STRING
                                  0000V  31 0029F          BRW     18$
                        00000000G    EF  9F 002A2 15$:     PUSHAB  CRLF_SHIFT                          ; 6128
                                     06  DD 002A8          PUSHL   #6
                        00000000G    EF  9F 002AA          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 002B0          CALLS   #3,PAS$WRITE_STRING
                        FFFF617F     EF  9F 002B7          PUSHAB  C.AUR
                                     21  DD 002BD          PUSHL   #33
                        00000000G    EF  9F 002BF          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 002C5          CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF  9F 002CC          PUSHAB  CRLF_SHIFT
                                     06  DD 002D2          PUSHL   #6
                        00000000G    EF  9F 002D4          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 002DA          CALLS   #3,PAS$WRITE_STRING
                        FFFF6179     EF  9F 002E1          PUSHAB  C.AUS
                                     18  DD 002E7          PUSHL   #24
                        00000000G    EF  9F 002E9          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 002EF          CALLS   #3,PAS$WRITE_STRING
                                    00V  11 002F6          BRB     18$
                        00000000G    EF  9F 002F8 16$:     PUSHAB  CRLF_SHIFT                          ; 6134
                                     06  DD 002FE          PUSHL   #6
                        00000000G    EF  9F 00300          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 00306          CALLS   #3,PAS$WRITE_STRING
                        FFFF6165     EF  9F 0030D          PUSHAB  C.AUT
                                     2E  DD 00313          PUSHL   #46
                        00000000G    EF  9F 00315          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 0031B          CALLS   #3,PAS$WRITE_STRING
                                    00V  11 00322          BRB     18$
                                            00324 17$:
                        00000000G    EF  9F 00324 18$:     PUSHAB  CRLF_SHIFT                          ; 6143
                                     06  DD 0032A          PUSHL   #6
                        00000000G    EF  9F 0032C          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 00332          CALLS   #3,PAS$WRITE_STRING
                        FFFF6169     EF  9F 00339          PUSHAB  C.AUU
                                     28  DD 0033F          PUSHL   #40
                        00000000G    EF  9F 00341          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 00347          CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF  9F 0034E          PUSHAB  ANSI_REVERSE
                                     04  DD 00354          PUSHL   #4
                        00000000G    EF  9F 00356          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 0035C          CALLS   #3,PAS$WRITE_STRING
                        FFFF6167     EF  9F 00363          PUSHAB  C.AUV
                                     03  DD 00369          PUSHL   #3
                        00000000G    EF  9F 0036B          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 00371          CALLS   #3,PAS$WRITE_STRING
                        00000000G    EF  9F 00378          PUSHAB  ANSI_RESET
                                     04  DD 0037E          PUSHL   #4
                        00000000G    EF  9F 00380          PUSHAB  PAS$FV_OUTPUT
        00000000G  EF                03  FB 00386          CALLS   #3,PAS$WRITE_STRING
                        FFFF6141     EF  9F 0038D          PUSHAB  C.AUW
                                     03  DD 00393          PUSHL   #3
                        00000000G    EF  9F 00395          PUSHAB  PAS$FV_OUTPUT
        00000000G          EF        03  FB 0039B          CALLS   #3,PAS$WRITE_STRING
                           50 0000001EG  EF  9A 003A2          MOVZBL  TEST+30,R0                          ; 6146
      34        62         8F        50  8F 003A9          CASEB   R0,#98,#52
                                  0000V     003AE          .DISPL  19$
                                   006A     003B0          .DISPL  106
```

```
                          006A     003B2           .DISPL  106
                          006A     003B4           .DISPL  106
                          006A     003B6           .DISPL  106
                          006A     003B8           .DISPL  106
                          006A     003BA           .DISPL  106
                          006A     003BC           .DISPL  106
                          006A     003BE           .DISPL  106
                          006A     003C0           .DISPL  106
                          006A     003C2           .DISPL  106
                          006A     003C4           .DISPL  106
                          006A     003C6           .DISPL  106
                          006A     003C8           .DISPL  106
                          006A     003CA           .DISPL  106
                          006A     003CC           .DISPL  106
                          006A     003CE           .DISPL  106
                          006A     003D0           .DISPL  106
                          006A     003D2           .DISPL  106
                          006A     003D4           .DISPL  106
                          0000V    003D6           .DISPL  21$
                          006A     003D8           .DISPL  106
                          006A     003DA           .DISPL  106
                          006A     003DC           .DISPL  106
                          006A     003DE           .DISPL  106
                          006A     003E0           .DISPL  106
                          006A     003E2           .DISPL  106
                          006A     003E4           .DISPL  106
                          006A     003E6           .DISPL  106
                          006A     003E8           .DISPL  106
                          006A     003EA           .DISPL  106
                          006A     003EC           .DISPL  106
                          006A     003EE           .DISPL  106
                          006A     003F0           .DISPL  106
                          006A     003F2           .DISPL  106
                          006A     003F4           .DISPL  106
                          006A     003F6           .DISPL  106
                          0000V    003F8           .DISPL  24$
                          006A     003FA           .DISPL  106
                          0000V    003FC           .DISPL  22$
                          006A     003FE           .DISPL  106
                          0000V    00400           .DISPL  23$
                          006A     00402           .DISPL  106
                          006A     00404           .DISPL  106
                          006A     00406           .DISPL  106
                          006A     00408           .DISPL  106
                          006A     0040A           .DISPL  106
                          006A     0040C           .DISPL  106
                          006A     0040E           .DISPL  106
                          006A     00410           .DISPL  106
                          006A     00412           .DISPL  106
                          0000V    00414           .DISPL  20$
                          0000V    00416           .DISPL  20$
                          0000V 31 00418           BRW     25$
             00000000   8F    DF 0041B 19$:        PUSHAL  #0                                            ; 6150
                   00   8F    9F 00421             PUSHAB  #0
  F4    AD 00000000G    EF    9E 00424             MOVAB   EDF$AB_ORG_TABLE_STA,-12(FP)
                   F4   AD    9F 0042C             PUSHAB  -12(FP)
  F0    AD 00000000G    EF    9E 0042F             MOVAB   EDF$AB_ORG_TABLE_KEY,-16(FP)
```

```
                            F0   AD   9F 00437          PUSHAB  -16(FP)
       00000000G  EF              04   FB 0043A          CALLS   #4,PARSE_INPUT
                             0000V   31 00441          BRW     26$
                  00000000   8F   DF 00444 20$:     PUSHAL  #0                                         ; 6160
                        00   8F   9F 0044A          PUSHAB  #0
          F4   AD 00000000G   EF   9E 0044D          MOVAB   EDF$AB_SOURCE_TABLE_STA,-12(FP)
                        F4   AD   9F 00455          PUSHAB  -12(FP)
          F0   AD 00000000G   EF   9E 00458          MOVAB   EDF$AB_SOURCE_TABLE_KEY,-16(FP)
                        F0   AD   9F 00460          PUSHAB  -16(FP)
       00000000G  EF              04   FB 00463          CALLS   #4,PARSE_INPUT
                             0000V   31 0046A          BRW     26$
                  00000000   8F   DF 0046D 21$:     PUSHAL  #0                                         ; 6169
                        00   8F   9F 00473          PUSHAB  #0
          F4   AD 00000000G   EF   9E 00476          MOVAB   EDF$AB_RU_TABLE_STA,-12(FP)
                        F4   AD   9F 0047E          PUSHAB  -12(FP)
          F0   AD 00000000G   EF   9E 00481          MOVAB   EDF$AB_RU_TABLE_KEY,-16(FP)
                        F0   AD   9F 00489          PUSHAB  -16(FP)
       00000000G  EF              04   FB 0048C          CALLS   #4,PARSE_INPUT
                               00V   11 00493          BRB     26$
                  00000000   8F   DF 00495 22$:     PUSHAL  #0                                         ; 6178
                        00   8F   9F 0049B          PUSHAB  #0
          F4   AD 00000000G   EF   9E 0049E          MOVAB   EDF$AB_CARR_TABLE_STA,-12(FP)
                        F4   AD   9F 004A6          PUSHAB  -12(FP)
          F0   AD 00000000G   EF   9E 004A9          MOVAB   EDF$AB_CARR_TABLE_KEY,-16(FP)
                        F0   AD   9F 004B1          PUSHAB  -16(FP)
       00000000G  EF              04   FB 004B4          CALLS   #4,PARSE_INPUT
                               00V   11 004BB          BRB     26$
                  00000000   8F   DF 004BD 23$:     PUSHAL  #0                                         ; 6187
                        00   8F   9F 004C3          PUSHAB  #0
          F4   AD 00000000G   EF   9E 004C6          MOVAB   EDF$AB_FORMAT_TABLE_STA,-12(FP)
                        F4   AD   9F 004CE          PUSHAB  -12(FP)
          F0   AD 00000000G   EF   9E 004D1          MOVAB   EDF$AB_FORMAT_TABLE_KEY,-16(FP)
                        F0   AD   9F 004D9          PUSHAB  -16(FP)
       00000000G  EF              04   FB 004DC          CALLS   #4,PARSE_INPUT
                               00V   11 004E3          BRB     26$
                  00000000   8F   DF 004E5 24$:     PUSHAL  #0                                         ; 6196
                        00   8F   9F 004EB          PUSHAB  #0
          F4   AD 00000000G   EF   9E 004EE          MOVAB   EDF$AB_TYPE_TABLE_STA,-12(FP)
                        F4   AD   9F 004F6          PUSHAB  -12(FP)
          F0   AD 00000000G   EF   9E 004F9          MOVAB   EDF$AB_TYPE_TABLE_KEY,-16(FP)
                        F0   AD   9F 00501          PUSHAB  -16(FP)
       00000000G  EF              04   FB 00504          CALLS   #4,PARSE_INPUT
                               00V   11 0050B          BRB     26$
                                        0050D 25$:
       00000023G  EF 00000000G   EF   D0 0050D 26$:     MOVL    INPUT_VALUE,TEST+35                        ; 6209
                  50 0000001EG   EF   9A 00518 27$:     MOVZBL  TEST+30,R0                                 ; 6213
                  50              04   C4 0051F          MULL2   #4,R0
                                  50   D6 00522          INCL    R0
    03 00000000G  EF              50   E0 00524          BBS     R0,SEC_TYPE,.+3
                             0000V   31 0052C          BRW     65$
                  50 0000001EG   EF   9A 0052F          MOVZBL  TEST+30,R0                                 ; 6217
             EC   AC 00000000GEF40   D0 00536          MOVL    SECONDARY_MAX[R0],-20(R12)
                  50 0000001EG   EF   9A 0053F          MOVZBL  TEST+30,R0                                 ; 6219
        00000098  8F              50   D1 00546          CMPL    R0,#152
                               00V   1E 0054D          BGEQU   30$
    00VFFFF5F81   EF              50   E1 0054F          BBC     R0,C.AUX,30$
                  FFFF5F8F   EF   9F 00557          PUSHAB  C.AUY                                      ; 6227
```

```
                               08    DD 0055D           PUSHL   #8
                  00000000G    EF    9F 0055F           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 00565           CALLS   #3,PAS$WRITE_STRING
                               00V   11 0056C           BRB     34$
3B9AC9FF    8F           EC    AC    D1 0056E  30$:     CMPL    -20(R12),#999999999            ; 6229
                               00V   12 00576           BNEQ    32$
                  FFFF5F76     EF    9F 00578           PUSHAB  C.AUZ                          ; 6231
                               08    DD 0057E           PUSHL   #8
                  00000000G    EF    9F 00580           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 00586           CALLS   #3,PAS$WRITE_STRING
                               00V   11 0058D           BRB     34$
                  FFFF5F67     EF    9F 0058F  32$:     PUSHAB  C.AVA                          ; 6235
                               02    DD 00595           PUSHL   #2
                  00000000G    EF    9F 00597           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 0059D           CALLS   #3,PAS$WRITE_STRING
                         EC    AC    9F 005A4           PUSHAB  -20(R12)
00000000G   EF                 01    FB 005A7           CALLS   #1,NUM_LEN
                               50    DD 005AE           PUSHL   R0
                         EC    AC    DD 005B0           PUSHL   -20(R12)
                  00000000G    EF    9F 005B3           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 005B9           CALLS   #3,PAS$WRITE_INTEGER
                               01    DD 005C0           PUSHL   #1
                               29    DD 005C2           PUSHL   #41
                  00000000G    EF    9F 005C4           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 005CA           CALLS   #3,PAS$WRITE_CHAR
                  00000000G    EF    9F 005D1  34$:     PUSHAB  ANSI_REVERSE                   ; 6237
                               04    DD 005D7           PUSHL   #4
                  00000000G    EF    9F 005D9           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 005DF           CALLS   #3,PAS$WRITE_STRING
                  FFFF5F14     EF    9F 005E6           PUSHAB  C.AVB
                               03    DD 005EC           PUSHL   #3
                  00000000G    EF    9F 005EE           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 005F4           CALLS   #3,PAS$WRITE_STRING
                  00000000G    EF    9F 005FB           PUSHAB  ANSI_RESET
                               04    DD 00601           PUSHL   #4
                  00000000G    EF    9F 00603           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 00609           CALLS   #3,PAS$WRITE_STRING
                               52    94 00610           CLRB    R2                             ; 6239
                         EC    AC    9F 00612           PUSHAB  -20(R12)
00000000G   EF                 01    FB 00615           CALLS   #1,NUM_LEN
            08                 50    D1 0061C           CMPL    R0,#8
                               00V   15 0061F           BLEQ    36$
                               52    96 00621           INCB    R2
                               50    94 00623  36$:     CLRB    R0
3B9AC9FF    8F           EC    AC    D1 00625           CMPL    -20(R12),#999999999
                               00V   12 0062D           BNEQ    38$
                               50    96 0062F           INCB    R0
            52                 50    8A 00631  38$:     BICB2   R0,R2
            00V                52    E9 00634           BLBC    R2,40$
                  FFFF5EC7     EF    9F 00637           PUSHAB  C.AVC                          ; 6245
                               03    DD 0063D           PUSHL   #3
                  00000000G    EF    9F 0063F           PUSHAB  PAS$FV_OUTPUT
00000000G   EF                 03    FB 00645           CALLS   #3,PAS$WRITE_STRING
                               00V   11 0064C           BRB     41$
                  FFFF5EB4     EF    9F 0064E  40$:     PUSHAB  C.AVD                          ; 6249
                               03    DD 00654           PUSHL   #3
                  00000000G    EF    9F 00656           PUSHAB  PAS$FV_OUTPUT
```

```
   00000000G EF             03  FB 0065C          CALLS    #3,PAS$WRITE_STRING
                  00000000  8F  DF 00663 41$:     PUSHAL   #0                                       ; 6251
                        00  8F  9F 00669          PUSHAB   #0
                 00000027G  EF  9F 0066C          PUSHAB   TEST+39
   00000000G EF             03  FB 00672          CALLS    #3,NUMBER_INPUT
             50  0000001EG  EF  9A 00679          MOVZBL   TEST+30,R0                               ; 6253
    00000098 8F             50  D1 00680          CMPL     R0,#152
                            00V 1E 00687          BGEQU    50$
 00VFFFF5E7B EF             50  E1 00689          BBC      R0,C.AVE,50$
00V00000033G EF             00  E1 00691          BBC      #0,VDATA+51,46$                          ; 6263
             03  000000F8G  EF  D1 00699          CMPL     IDATA+248,#3
                            00V 18 006A0          BGEQ     46$
                 00000027G  EF  D5 006A2          TSTL     TEST+39
                            00V 13 006A8          BEQL     46$
                            00  DD 006AA          PUSHL    #0                                       ; 6270
                            00  DD 006AC          PUSHL    #0
                            00  DD 006AE          PUSHL    #0
                  00B38038  8F  DD 006B0          PUSHL    #11763768
   00000000G EF             04  FB 006B6          CALLS    #4,LIB$SIGNAL
          EC AC  00000027G  EF  D1 006BD 46$:     CMPL     TEST+39,-20(R12)                         ; 6272
                            00V 14 006C5          BGTR     48$
             50         EC  AC  CE 006C7          MNEGL    -20(R12),R0
             50  00000027G  EF  D1 006CB          CMPL     TEST+39,R0
                            00V 18 006D2          BGEQ     60$
                            00  DD 006D4 48$:     PUSHL    #0                                       ; 6278
                            00  DD 006D6          PUSHL    #0
                            00  DD 006D8          PUSHL    #0
                  00B38038  8F  DD 006DA          PUSHL    #11763768
   00000000G EF             04  FB 006E0          CALLS    #4,LIB$SIGNAL
                            00V 11 006E7          BRB      60$
          8A 8F  0000001EG  EF  91 006E9 50$:     CMPB     TEST+30,#-118                            ; 6282
                            00V 12 006F1          BNEQ     55$
             01  00000027G  EF  D1 006F3          CMPL     TEST+39,#1                               ; 6286
                            00V 19 006FA          BLSS     53$
          EC AC  00000027G  EF  D1 006FC          CMPL     TEST+39,-20(R12)
                            00V 15 00704          BLEQ     59$
                            00  DD 00706 53$:     PUSHL    #0                                       ; 6292
                            00  DD 00708          PUSHL    #0
                            00  DD 0070A          PUSHL    #0
                  00B38038  8F  DD 0070C          PUSHL    #11763768
   00000000G EF             04  FB 00712          CALLS    #4,LIB$SIGNAL
                            00V 11 00719          BRB      59$
                 00000027G  EF  D5 0071B 55$:     TSTL     TEST+39                                  ; 6300
                            00V 19 00721          BLSS     57$
          EC AC  00000027G  EF  D1 00723          CMPL     TEST+39,-20(R12)
                            00V 15 0072B          BLEQ     58$
                            00  DD 0072D 57$:     PUSHL    #0                                       ; 6306
                            00  DD 0072F          PUSHL    #0
                            00  DD 00731          PUSHL    #0
                  00B38038  8F  DD 00733          PUSHL    #11763768
   00000000G EF             04  FB 00739          CALLS    #4,LIB$SIGNAL
                                   00740 58$:
                                   00740 59$:
          56 8F  0000001EG  EF  91 00740 60$:     CMPB     TEST+30,#86                              ; 6310
                            00V 12 00748          BNEQ     65$
                 00000027G  EF  D5 0074A          TSTL     TEST+39
                            00V 15 00750          BLEQ     65$
             14 00000027G  EF    D1 00752           CMPL    TEST+39,#20
                           00V   18 00759           BGEQ    65$
                           00    DD 0075B           PUSHL   #0                            ; 6318
                           00    DD 0075D           PUSHL   #0
                           00    DD 0075F           PUSHL   #0
                00B38038   8F    DD 00761           PUSHL   #11763768
   00000000G EF            04    FB 00767           CALLS   #4,LIB$SIGNAL
             50 0000001EG  EF    9A 0076E 65$:      MOVZBL  TEST+30,R0                    ; 6322
             50            04    C4 00775           MULL2   #4,R0
00V00000000G EF            50    E0 00778           BBS     R0,SEC_TYPE,67$
             0F 00000019G  EF    91 00780           CMPB    TEST+25,#15
                           03    13 00787           BEQL    .+3
                         0000V   31 00789           BRW     95$
             07 00000019G  EF    91 0078C 67$:      CMPB    TEST+25,#7                    ; 6330
                           00V   12 00793           BNEQ    69$
                FFFF5D85   EF    9F 00795           PUSHAB  C.AVF                         ; 6332
                           09    DD 0079B           PUSHL   #9
                00000000G  EF    9F 0079D           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 007A3           CALLS   #3,PAS$WRITE_STRING
                00000000G  EF    9F 007AA           PUSHAB  ANSI_REVERSE
                           04    DD 007B0           PUSHL   #4
                00000000G  EF    9F 007B2           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 007B8           CALLS   #3,PAS$WRITE_STRING
                FFFF5D67   EF    9F 007BF           PUSHAB  C.AVG
                           03    DD 007C5           PUSHL   #3
                00000000G  EF    9F 007C7           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 007CD           CALLS   #3,PAS$WRITE_STRING
                00000000G  EF    9F 007D4           PUSHAB  ANSI_RESET
                           04    DD 007DA           PUSHL   #4
                00000000G  EF    9F 007DC           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 007E2           CALLS   #3,PAS$WRITE_STRING
                FFFF5D41   EF    9F 007E9           PUSHAB  C.AVH
                           03    DD 007EF           PUSHL   #3
                00000000G  EF    9F 007F1           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 007F7           CALLS   #3,PAS$WRITE_STRING
                           00V   11 007FE           BRB     73$
          81 8F 0000001EG  EF    91 00800 69$:      CMPB    TEST+30,#-127                 ; 6334
                           00V   12 00808           BNEQ    71$
                FFFF5D24   EF    9F 0080A           PUSHAB  C.AVI                         ; 6336
                           14    DD 00810           PUSHL   #20
                00000000G  EF    9F 00812           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 00818           CALLS   #3,PAS$WRITE_STRING
                           00V   11 0081F           BRB     73$
                FFFF5D21   EF    9F 00821 71$:      PUSHAB  C.AVJ                         ; 6340
                           12    DD 00827           PUSHL   #18
                00000000G  EF    9F 00829           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 0082F           CALLS   #3,PAS$WRITE_STRING
                00000000G  EF    9F 00836           PUSHAB  CRLF_SHIFT
                           06    DD 0083C           PUSHL   #6
                00000000G  EF    9F 0083E           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 00844           CALLS   #3,PAS$WRITE_STRING
                FFFF5D09   EF    9F 0084B           PUSHAB  C.AVK
                           02    DD 00851           PUSHL   #2
                00000000G  EF    9F 00853           PUSHAB  PAS$FV_OUTPUT
   00000000G EF            03    FB 00859           CALLS   #3,PAS$WRITE_STRING
00V00000000G EF            30    E0 00860 73$:      BBS     #48,PAS$FV_INPUT,74$          ; 6342
                00000000G  EF    9F 00868           PUSHAB  PAS$FV_INPUT
   00000000G  EF               01   FB 0086E        CALLS    #1,PAS$LOOK_AHEAD
 00V00000000G EF               31   E0 00875 74$:   BBS      #49,PAS$FV_INPUT,76$
                  00000000G    EF   9F 0087D        PUSHAB   PAS$FV_INPUT                                ; 6346
   00000000G  EF               01   FB 00883        CALLS    #1,PAS$RESET2
                               00   DD 0088A        PUSHL    #0                                          ; 6347
                               00   DD 0088C        PUSHL    #0
                               00   DD 0088E        PUSHL    #0
                  00B3804B     8F   DD 00890        PUSHL    #11763787
   00000000G  EF               04   FB 00896        CALLS    #4,LIB$SIGNAL
                  000000FF     8F   DD 0089D 76$:   PUSHL    #255                                        ; 6351
                  00000000G    EF   9F 008A3        PUSHAB   PAS$FV_INPUT
                      FEED     CC   9F 008A9        PUSHAB   -275(R12)
   00000000G  EF               03   FB 008AD        CALLS    #3,PAS$READ_STRING
                  00000000G    EF   9F 008B4        PUSHAB   PAS$FV_INPUT
   00000000G  EF               01   FB 008BA        CALLS    #1,PAS$READLN2
                  00000000G    EF   9F 008C1        PUSHAB   CRLF                                        ; 6352
                               02   DD 008C7        PUSHL    #2
                  00000000G    EF   9F 008C9        PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               03   FB 008CF        CALLS    #3,PAS$WRITE_STRING
                  00000000G    EF   9F 008D6        PUSHAB   PAS$FV_OUTPUT
   00000000G  EF               01   FB 008DC        CALLS    #1,PAS$WRITELN2
   00000011G  EF  00000000G    EF   7D 008E3        MOVQ     NULL_STRING,TEST+17                         ; 6354
          F0  AD  010E00FF     8F   D0 008EE        MOVL     #17694975,-16(FP)                           ; 6355
          F4  AD      FEED     CC   9E 008F6        MOVAB    -275(R12),-12(FP)
                        F0     AD   9F 008FC        PUSHAB   -16(FP)
                  00000011G    EF   9F 008FF        PUSHAB   TEST+17
   00000000G  EF               02   FB 00905        CALLS    #2,STR$TRIM
                  00000000G    EF   9F 0090C        PUSHAB   INPUT_DESC                                  ; 6356
                  00000011G    EF   9F 00912        PUSHAB   TEST+17
   00000000G  EF               02   FB 00918        CALLS    #2,LIB$SCOPY_DXDX
   00000014G  EF  00000004G    EF   D0 0091F        MOVL     INPUT_DESC+4,PARAM_BLOCK+20                 ; 6357
   00000010G  EF  00000000G    EF   3C 0092A        MOVZWL   INPUT_DESC,PARAM_BLOCK+16                   ; 6358
 00V00000000G EF               00   E1 00935        BBC      #0,JOURNAL_ENABLED,82$                      ; 6364
                  00000011G    EF   B5 0093D        TSTW     TEST+17                                     ; 6366
                              00V   1B 00943        BLEQU    80$
               7E 00000011G    EF   3C 00945        MOVZWL   TEST+17,-(SP)                               ; 6368
                               00   DD 0094C        PUSHL    #0
               50 00000015G    EF   D0 0094E        MOVL     TEST+21,R0
                               60   9F 00955        PUSHAB   (R0)
                  000000FF     8F   DD 00957        PUSHL    #255
                  00000000G    EF   9F 0095D        PUSHAB   JOURNAL_FILE
   00000000G  EF               05   FB 00963        CALLS    #5,PAS$WRITE_STRING
                  00000000G    EF   9F 0096A        PUSHAB   JOURNAL_FILE
   00000000G  EF               01   FB 00970        CALLS    #1,PAS$WRITELN2
                              00V   11 00977        BRB      82$
                  00000000G    EF   9F 00979 80$:   PUSHAB   JOURNAL_FILE                                ; 6376
   00000000G  EF               01   FB 0097F        CALLS    #1,PAS$WRITELN2
               07 00000019G    EF   91 00986 82$:   CMPB     TEST+25,#7                                  ; 6378
                               03   13 0098D        BEQL     .+3
                            0000V   31 0098F        BRW      90$
                  00000011G    EF   9F 00992        PUSHAB   TEST+17                                     ; 6382
                  00000011G    EF   9F 00998        PUSHAB   TEST+17
   00000000G  EF               02   FB 0099E        CALLS    #2,STR$UPCASE
                  00000011G    EF   B5 009A5        TSTW     TEST+17                                     ; 6384
                              00V   12 009AB        BNEQ     85$
                  00000011G    EF   9F 009AD        PUSHAB   TEST+17                                     ; 6388
   00000000G  EF               01   FB 009B3        CALLS    #1,STR$FREE1_DX
```

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                                      00     DD 009BA           PUSHL    #0                                          ; 6389
                                      00     DD 009BC           PUSHL    #0
                                      00     DD 009BE           PUSHL    #0
                            00B38040  8F     DD 009C0           PUSHL    #11763776
               00000000G  EF          04     FB 009C6           CALLS    #4,LIB$SIGNAL
                          50          01     D0 009CD  85$:     MOVL     #1,R0                                       ; 6397
                          52 00000011G  EF   3C 009D0           MOVZWL   TEST+17,R2
                          52          50     D1 009D7           CMPL     R0,R2
                                      00V    14 009DA           BGTR     87$
                    FC    AC          50     D0 009DC  86$:     MOVL     R0,-4(R12)
                          51      FC  AC     D0 009E0           MOVL     -4(R12),R1                                  ; 6399
                          53      FC  AC     D0 009E4           MOVL     -4(R12),R3
                          54 00000015G  EF   D0 009E8           MOVL     TEST+21,R4
              FEEC CC41         FF A443      90 009EF           MOVB     -1(R4)[R3],-276(R12)[R1]
           E1             50          52     F3 009F7           AOBLEQ   R2,R0,86$
                            00000000G  EF    9F 009FB  87$:     PUSHAB   QUAD_TIME                                   ; 6401
                    F0    AD 010E00FF  8F    D0 00A01           MOVL     #17694975,-16(FP)
                    F4    AD      FEED CC    9E 00A09           MOVAB    -275(R12),-12(FP)
                                  F0  AD     9F 00A0F           PUSHAB   -16(FP)
               00000000G  EF          02     FB 00A12           CALLS    #2,SYS$BINTIM
                          00V         50     E8 00A19           BLBS     R0,90$
                            00000011G  EF    9F 00A1C           PUSHAB   TEST+17                                     ; 6407
               00000000G  EF          01     FB 00A22           CALLS    #1,STR$FREE1_DX
                                      00     DD 00A29           PUSHL    #0                                          ; 6408
                                      00     DD 00A2B           PUSHL    #0
                                      00     DD 00A2D           PUSHL    #0
                            00B38030  8F     DD 00A2F           PUSHL    #11763760
               00000000G  EF          04     FB 00A35           CALLS    #4,LIB$SIGNAL
                    81    8F 0000001EG  EF   91 00A3C  90$:     CMPB     TEST+30,#-127                               ; 6414
                                      00V    12 00A44           BNEQ     92$
                          20 00000011G  EF   B1 00A46           CMPW     TEST+17,#32
                                      00V    1A 00A4D           BGTRU    93$
                  007E    8F 00000011G  EF   B1 00A4F  92$:     CMPW     TEST+17,#126
                                      00V    1B 00A58           BLEQU    95$
                            00000011G  EF    9F 00A5A  93$:     PUSHAB   TEST+17                                     ; 6426
               00000000G  EF          01     FB 00A60           CALLS    #1,STR$FREE1_DX
                                      00     DD 00A67           PUSHL    #0                                          ; 6427
                                      00     DD 00A69           PUSHL    #0
                                      00     DD 00A6B           PUSHL    #0
                            00B38030  8F     DD 00A6D           PUSHL    #11763760
               00000000G  EF          04     FB 00A73           CALLS    #4,LIB$SIGNAL
                          50 0000001EG  EF   9A 00A7A  95$:     MOVZBL   TEST+30,R0                                  ; 6433
                          50          04     C4 00A81           MULL2    #4,R0
                          50          03     C0 00A84           ADDL2    #3,R0
           03 00000000G  EF           50     E0 00A87           BBS      R0,SEC_TYPE,.+3
                                    0000V    31 00A8F           BRW      112$
                            FFFF5AC4  EF     9F 00A92           PUSHAB   C.AVL                                       ; 6437
                                      07     DD 00A98           PUSHL    #7
                            00000000G  EF    9F 00A9A           PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03     FB 00AA0           CALLS    #3,PAS$WRITE_STRING
                            00000000G  EF    9F 00AA7           PUSHAB   ANSI_REVERSE
                                      04     DD 00AAD           PUSHL    #4
                            00000000G  EF    9F 00AAF           PUSHAB   PAS$FV_OUTPUT
               00000000G  EF          03     FB 00AB5           CALLS    #3,PAS$WRITE_STRING
                            FFFF5AA2  EF     9F 00ABC           PUSHAB   C.AVM
                                      03     DD 00AC2           PUSHL    #3
                            00000000G  EF    9F 00AC4           PUSHAB   PAS$FV_OUTPUT
```

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      00000000G  EF               03  FB 00ACA          CALLS   #3,PAS$WRITE_STRING
                    00000000G     EF  9F 00AD1          PUSHAB  ANSI_RESET
                                  04  DD 00AD7          PUSHL   #4
                    00000000G     EF  9F 00AD9          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF               03  FB 00ADF          CALLS   #3,PAS$WRITE_STRING
                    FFFF5A7C      EF  9F 00AE6          PUSHAB  C.AVN
                                  03  DD 00AEC          PUSHL   #3
                    00000000G     EF  9F 00AEE          PUSHAB  PAS$FV_OUTPUT
      00000000G  EF               03  FB 00AF4          CALLS   #3,PAS$WRITE_STRING
                    00000000      8F  DF 00AFB          PUSHAL  #0                                                   ; 6438
                          00      8F  9F 00B01          PUSHAB  #0
             F4  AD 00000000G     EF  9E 00B04          MOVAB   EDF$AB_YES_NO_TABLE_STA,-12(FP)
                          F4      AD  9F 00B0C          PUSHAB  -12(FP)
             F0  AD 00000000G     EF  9E 00B0F          MOVAB   EDF$AB_YES_NO_TABLE_KEY,-16(FP)
                          F0      AD  9F 00B17          PUSHAB  -16(FP)
      00000000G  EF               04  FB 00B1A          CALLS   #4,PARSE_INPUT
                                  50  94 00B21          CLRB    R0                                                   ; 6445
                 01 00000000G     EF  D1 00B23          CMPL    INPUT_VALUE,#1
                                 00V  12 00B2A          BNEQ    98$
                                  50  96 00B2C          INCB    R0
      0000002BG  EF               50  90 00B2E  98$:    MOVB    R0,TEST+43
                 0B 00000019G     EF  91 00B35          CMPB    TEST+25,#11                                          ; 6447
                                 00V  12 00B3C          BNEQ    103$
                    0000001AG     EF  D5 00B3E          TSTL    TEST+26
                                 00V  12 00B44          BNEQ    103$
             77  8F 0000001EG     EF  91 00B46          CMPB    TEST+30,#119
                                 00V  12 00B4E          BNEQ    103$
   00V0000002BG  EF               00  E1 00B50          BBC     #0,TEST+43,103$
                                  00  DD 00B58          PUSHL   #0                                                   ; 6457
                                  00  DD 00B5A          PUSHL   #0
                                  00  DD 00B5C          PUSHL   #0
                    00B38038      8F  DD 00B5E          PUSHL   #11763768
      00000000G  EF               04  FB 00B64          CALLS   #4,LIB$SIGNAL
                 0C 00000019G     EF  91 00B6B  103$:   CMPB    TEST+25,#12                                          ; 6459
                                 00V  12 00B72          BNEQ    112$
             88  8F 0000001EG     EF  91 00B74          CMPB    TEST+30,#-120
                                 00V  12 00B7C          BNEQ    112$
   00V0000002BG  EF               00  E1 00B7E          BBC     #0,TEST+43,112$
                    00000000      8F  DF 00B86          PUSHAL  #0                                                   ; 6469
                          62      8F  9F 00B8C          PUSHAB  #98
                    00000000      8F  DF 00B8F          PUSHAL  #0
                          08      8F  9F 00B95          PUSHAB  #8
                          01      8F  9F 00B98          PUSHAB  #1
      00000000G  EF               05  FB 00B9B          CALLS   #5,FIND_OBJECT
                 00V              50  E9 00BA2          BLBC    R0,112$
                 50 00000000G     EF  D0 00BA5          MOVL    DEF_CURRENT,R0                                       ; 6473
                 1D       23      A0  D1 00BAC          CMPL    35(R0),#29
                                 00V  13 00BB0          BEQL    112$
                                  00  DD 00BB2          PUSHL   #0                                                   ; 6475
                                  00  DD 00BB4          PUSHL   #0
                                  00  DD 00BB6          PUSHL   #0
                    00B38038      8F  DD 00BB8          PUSHL   #11763768
      00000000G  EF               04  FB 00BBE          CALLS   #4,LIB$SIGNAL
             63  8F 0000001EG     EF  91 00BC5  112$:   CMPB    TEST+30,#99                                          ; 6483
                                  03  13 00BCD          BEQL    .+3
                               0000V  31 00BCF          BRW     114$
                    00000000G     EF  D4 00BD2          CLRL    EDF$GL_OWNER_UIC                                     ; 6487
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                                          FFFF598E   EF   9F 00BD8         PUSHAB  C.AVO                                      ; 6489
                                                     08   DD 00BDE         PUSHL   #8
                                          00000000G  EF   9F 00BE0         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00BE6         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00BED         PUSHAB  ANSI_REVERSE
                                                     04   DD 00BF3         PUSHL   #4
                                          00000000G  EF   9F 00BF5         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00BFB         CALLS   #3,PAS$WRITE_STRING
                                          FFFF596C   EF   9F 00C02         PUSHAB  C.AVP
                                                     03   DD 00C08         PUSHL   #3
                                          00000000G  EF   9F 00C0A         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00C10         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00C17         PUSHAB  ANSI_RESET
                                                     04   DD 00C1D         PUSHL   #4
                                          00000000G  EF   9F 00C1F         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00C25         CALLS   #3,PAS$WRITE_STRING
                                          FFFF5946   EF   9F 00C2C         PUSHAB  C.AVQ
                                                     03   DD 00C32         PUSHL   #3
                                          00000000G  EF   9F 00C34         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00C3A         CALLS   #3,PAS$WRITE_STRING
                                          00000000   8F   DF 00C41         PUSHAL  #0                                         ; 6490
                                                00   8F   9F 00C47         PUSHAB  #0
                                  F4   AD 00000000G  EF   9E 00C4A         MOVAB   EDF$AB_UIC_TABLE_STA,-12(FP)
                                                F4   AD   9F 00C52         PUSHAB  -12(FP)
                                  F0   AD 00000000G  EF   9E 00C55         MOVAB   EDF$AB_UIC_TABLE_KEY,-16(FP)
                                                F0   AD   9F 00C5D         PUSHAB  -16(FP)
                            00000000G  EF            04   FB 00C60         CALLS   #4,PARSE_INPUT
                            0000002CG  EF 00000000G  EF   D0 00C67         MOVL    EDF$GL_OWNER_UIC,TEST+44                   ; 6497
                                  65   8F 0000001EG  EF   91 00C72 114$:   CMPB    TEST+30,#101                               ; 6501
                                                     03   13 00C7A         BEQL    .+3
                                                  0000V   31 00C7C         BRW     117$
                                                     50   D4 00C7F         CLRL    R0                                         ; 6505
                                  FC   AC            50   D0 00C81 116$:   MOVL    R0,-4(R12)
00000000G  EF             01      FC   AC            00   F0 00C85         INSV    #0,-4(R12),#1,EDF$GL_PROT_MASK             ; 6507
                          EE           50            1F   F3 00C8F         AOBLEQ  #31,R0,116$
                                          FFFF58E3   EF   9F 00C93         PUSHAB  C.AVR                                      ; 6509
                                                     09   DD 00C99         PUSHL   #9
                                          00000000G  EF   9F 00C9B         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00CA1         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00CA8         PUSHAB  ANSI_REVERSE
                                                     04   DD 00CAE         PUSHL   #4
                                          00000000G  EF   9F 00CB0         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00CB6         CALLS   #3,PAS$WRITE_STRING
                                          FFFF58C5   EF   9F 00CBD         PUSHAB  C.AVS
                                                     03   DD 00CC3         PUSHL   #3
                                          00000000G  EF   9F 00CC5         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00CCB         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00CD2         PUSHAB  ANSI_RESET
                                                     04   DD 00CD8         PUSHL   #4
                                          00000000G  EF   9F 00CDA         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00CE0         CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00CE7         PUSHAB  CRLF_SHIFT
                                                     06   DD 00CED         PUSHL   #6
                                          00000000G  EF   9F 00CEF         PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF            03   FB 00CF5         CALLS   #3,PAS$WRITE_STRING
                                          FFFF588A   EF   9F 00CFC         PUSHAB  C.AVT
                                                     02   DD 00D02         PUSHL   #2
                                          00000000G  EF   9F 00D04          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00D0A          CALLS   #3,PAS$WRITE_STRING
                                          00000000   8F   DF 00D11          PUSHAL  #0                                          ; 6510
                                                00   8F   9F 00D17          PUSHAB  #0
                                  F4   AD 00000000G  EF   9E 00D1A          MOVAB   EDF$AB_PROT_TABLE_STA,-12(FP)
                                                F4   AD   9F 00D22          PUSHAB  -12(FP)
                                  F0   AD 00000000G  EF   9E 00D25          MOVAB   EDF$AB_PROT_TABLE_KEY,-16(FP)
                                                F0   AD   9F 00D2D          PUSHAB  -16(FP)
                            00000000G  EF               04   FB 00D30          CALLS   #4,PARSE_INPUT
                            00000030G  EF 00000000G  EF   D0 00D37          MOVL    EDF$GL_PROT_MASK,TEST+48                    ; 6517
                                       21 0000001EG  EF   91 00D42 117$:    CMPB    TEST+30,#33                                 ; 6521
                                                     03   13 00D49          BEQL    .+3
                                                   0000V  31 00D4B          BRW     137$
                                          FFFF583C   EF   9F 00D4E          PUSHAB  C.AVU                                       ; 6525
                                                     08   DD 00D54          PUSHL   #8
                                          00000000G  EF   9F 00D56          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00D5C          CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00D63          PUSHAB  ANSI_REVERSE
                                                     04   DD 00D69          PUSHL   #4
                                          00000000G  EF   9F 00D6B          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00D71          CALLS   #3,PAS$WRITE_STRING
                                          FFFF581A   EF   9F 00D78          PUSHAB  C.AVV
                                                     03   DD 00D7E          PUSHL   #3
                                          00000000G  EF   9F 00D80          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00D86          CALLS   #3,PAS$WRITE_STRING
                                          00000000G  EF   9F 00D8D          PUSHAB  ANSI_RESET
                                                     04   DD 00D93          PUSHL   #4
                                          00000000G  EF   9F 00D95          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00D9B          CALLS   #3,PAS$WRITE_STRING
                                          FFFF57F4   EF   9F 00DA2          PUSHAB  C.AVW
                                                     03   DD 00DA8          PUSHL   #3
                                          00000000G  EF   9F 00DAA          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00DB0          CALLS   #3,PAS$WRITE_STRING
                                          00000000   8F   DF 00DB7          PUSHAL  #0                                          ; 6526
                                                00   8F   9F 00DBD          PUSHAB  #0
                                  F4   AD 00000000G  EF   9E 00DC0          MOVAB   EDF$AB_POSIT_TABLE_STA,-12(FP)
                                                F4   AD   9F 00DC8          PUSHAB  -12(FP)
                                  F0   AD 00000000G  EF   9E 00DCB          MOVAB   EDF$AB_POSIT_TABLE_KEY,-16(FP)
                                                F0   AD   9F 00DD3          PUSHAB  -16(FP)
                            00000000G  EF               04   FB 00DD6          CALLS   #4,PARSE_INPUT
                            00000023G  EF 00000000G  EF   D0 00DDD          MOVL    INPUT_VALUE,TEST+35                         ; 6533
                            00000100   8F 00000023G  EF   D1 00DE8          CMPL    TEST+35,#256                                ; 6535
                                                     00V  1E 00DF3          BGEQU   119$
                         03 FFFF579F   EF 00000023G  EF   E1 00DF5          BBC     TEST+35,C.AVX,.+3
                                                   0000V  31 00E01          BRW     136$
                                          00000000G  EF   9F 00E04 119$:    PUSHAB  CRLF_SHIFT                                  ; 6539
                                                     06   DD 00E0A          PUSHL   #6
                                          00000000G  EF   9F 00E0C          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00E12          CALLS   #3,PAS$WRITE_STRING
                                          FFFF57A1   EF   9F 00E19          PUSHAB  C.AVY
                                                     17   DD 00E1F          PUSHL   #23
                                          00000000G  EF   9F 00E21          PUSHAB  PAS$FV_OUTPUT
                            00000000G  EF               03   FB 00E27          CALLS   #3,PAS$WRITE_STRING
                         06            01 00000023G  EF   CF 00E2E          CASEL   TEST+35,#1,#8                               ; 6541
                                                   0000V       00E36          .DISPL  120$
                                                   0000V       00E38          .DISPL  120$
                                                   0000V       00E3A          .DISPL  121$
```

```
                             0000V      00E3C          .DISPL   122$
                             0000V      00E3E          .DISPL   120$
                             000E       00E40          .DISPL   14
                             0000V      00E42          .DISPL   120$
                             0000V  31  00E44          BRW      134$
                 FFFF578B    EF     9F  00E47  120$:   PUSHAB   C.AVZ                                ; 6547
                       08    DD         00E4D          PUSHL    #8
                 00000000G   EF     9F  00E4F          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00E55          CALLS    #3,PAS$WRITE_STRING
                 00000000G   EF     9F  00E5C          PUSHAB   ANSI_REVERSE
                       04    DD         00E62          PUSHL    #4
                 00000000G   EF     9F  00E64          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00E6A          CALLS    #3,PAS$WRITE_STRING
                 FFFF5769    EF     9F  00E71          PUSHAB   C.AWA
                       03    DD         00E77          PUSHL    #3
                 00000000G   EF     9F  00E79          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00E7F          CALLS    #3,PAS$WRITE_STRING
                 00000000G   EF     9F  00E86          PUSHAB   ANSI_RESET
                       04    DD         00E8C          PUSHL    #4
                 00000000G   EF     9F  00E8E          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00E94          CALLS    #3,PAS$WRITE_STRING
                 FFFF5743    EF     9F  00E9B          PUSHAB   C.AWB
                       03    DD         00EA1          PUSHL    #3
                 00000000G   EF     9F  00EA3          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00EA9          CALLS    #3,PAS$WRITE_STRING
                 00000000    8F     DF  00EB0          PUSHAL   #0                                   ; 6548
                       00    8F     9F  00EB6          PUSHAB   #0
                 00000027G   EF     9F  00EB9          PUSHAB   TEST+39
    00000000G  EF            03     FB  00EBF          CALLS    #3,NUMBER_INPUT
                             0000V  31  00EC6          BRW      136$
                 00000000G   EF     D4  00EC9  121$:   CLRL     EDF$GL_FID1                          ; 6556
                 00000000G   EF     D4  00ECF          CLRL     EDF$GL_FID2                          ; 6557
                 00000000G   EF     D4  00ED5          CLRL     EDF$GL_FID3                          ; 6558
                 FFFF5707    EF     9F  00EDB          PUSHAB   C.AWC                                ; 6560
                       08    DD         00EE1          PUSHL    #8
                 00000000G   EF     9F  00EE3          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00EE9          CALLS    #3,PAS$WRITE_STRING
                 00000000G   EF     9F  00EF0          PUSHAB   ANSI_REVERSE
                       04    DD         00EF6          PUSHL    #4
                 00000000G   EF     9F  00EF8          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00EFE          CALLS    #3,PAS$WRITE_STRING
                 FFFF56E5    EF     9F  00F05          PUSHAB   C.AWD
                       03    DD         00F0B          PUSHL    #3
                 00000000G   EF     9F  00F0D          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00F13          CALLS    #3,PAS$WRITE_STRING
                 00000000G   EF     9F  00F1A          PUSHAB   ANSI_RESET
                       04    DD         00F20          PUSHL    #4
                 00000000G   EF     9F  00F22          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00F28          CALLS    #3,PAS$WRITE_STRING
                 FFFF56BF    EF     9F  00F2F          PUSHAB   C.AWE
                       03    DD         00F35          PUSHL    #3
                 00000000G   EF     9F  00F37          PUSHAB   PAS$FV_OUTPUT
    00000000G  EF            03     FB  00F3D          CALLS    #3,PAS$WRITE_STRING
                 00000000    8F     DF  00F44          PUSHAL   #0                                   ; 6561
                       00    8F     9F  00F4A          PUSHAB   #0
          F4   AD  00000000G   EF   9E  00F4D          MOVAB    EDF$AB_FID_TABLE_STA,-12(FP)
                       F4    AD     9F  00F55          PUSHAB   -12(FP)
          F0 AD 00000000G   EF    9E 00F58         MOVAB   EDF$AB_FID_TABLE_KEY,-16(FP)
                       F0   AD    9F 00F60         PUSHAB  -16(FP)
   00000000G EF             04    FB 00F63         CALLS   #4,PARSE_INPUT
   00000034G EF 00000000G   EF    D0 00F6A         MOVL    EDF$GL_FID1,TEST+52                     ; 6568
   00000038G EF 00000000G   EF    D0 00F75         MOVL    EDF$GL_FID2,TEST+56                     ; 6569
   0000003CG EF 00000000G   EF    D0 00F80         MOVL    EDF$GL_FID3,TEST+60                     ; 6570
                         0000V    31 00F8B         BRW     136$
                 FFFF5664   EF    9F 00F8E 122$:   PUSHAB  C.AWF                                   ; 6578
                            12    DD 00F94         PUSHL   #18
                00000000G   EF    9F 00F96         PUSHAB  PAS$FV_OUTPUT
   00000000G EF             03    FB 00F9C         CALLS   #3,PAS$WRITE_STRING
                00000000G   EF    9F 00FA3         PUSHAB  CRLF_SHIFT
                            06    DD 00FA9         PUSHL   #6
                00000000G   EF    9F 00FAB         PUSHAB  PAS$FV_OUTPUT
   00000000G EF             03    FB 00FB1         CALLS   #3,PAS$WRITE_STRING
                 FFFF564C   EF    9F 00FB8         PUSHAB  C.AWG
                            02    DD 00FBE         PUSHL   #2
                00000000G   EF    9F 00FC0         PUSHAB  PAS$FV_OUTPUT
   00000000G EF             03    FB 00FC6         CALLS   #3,PAS$WRITE_STRING
00v00000000G EF             30    E0 00FCD         BBS     #48,PAS$FV_INPUT,123$                   ; 6580
                00000000G   EF    9F 00FD5         PUSHAB  PAS$FV_INPUT
   00000000G EF             01    FB 00FDB         CALLS   #1,PAS$LOOK_AHEAD
00v00000000G EF             31    E0 00FE2 123$:   BBS     #49,PAS$FV_INPUT,125$
                00000000G   EF    9F 00FEA         PUSHAB  PAS$FV_INPUT                            ; 6584
   00000000G EF             01    FB 00FF0         CALLS   #1,PAS$RESET2
                            00    DD 00FF7         PUSHL   #0                                      ; 6585
                            00    DD 00FF9         PUSHL   #0
                            00    DD 00FFB         PUSHL   #0
                 00B3804B   8F    DD 00FFD         PUSHL   #11763787
   00000000G EF             04    FB 01003         CALLS   #4,LIB$SIGNAL
                 000000FF   8F    DD 0100A 125$:   PUSHL   #255                                    ; 6589
                00000000G   EF    9F 01010         PUSHAB  PAS$FV_INPUT
                     FEED   CC    9F 01016         PUSHAB  -275(R12)
   00000000G EF             03    FB 0101A         CALLS   #3,PAS$READ_STRING
                00000000G   EF    9F 01021         PUSHAB  PAS$FV_INPUT
   00000000G EF             01    FB 01027         CALLS   #1,PAS$READLN2
                00000000G   EF    9F 0102E         PUSHAB  CRLF                                    ; 6590
                            02    DD 01034         PUSHL   #2
                00000000G   EF    9F 01036         PUSHAB  PAS$FV_OUTPUT
   00000000G EF             03    FB 0103C         CALLS   #3,PAS$WRITE_STRING
                00000000G   EF    9F 01043         PUSHAB  PAS$FV_OUTPUT
   00000000G EF             01    FB 01049         CALLS   #1,PAS$WRITELN2
   00000011G EF 00000000G   EF    7D 01050         MOVQ    NULL_STRING,TEST+17                     ; 6592
          F0 AD  010E00FF   8F    D0 0105B         MOVL    #17694975,-16(FP)                       ; 6593
          F4 AD      FEED   CC    9E 01063         MOVAB   -275(R12),-12(FP)
                       F0   AD    9F 01069         PUSHAB  -16(FP)
                00000011G   EF    9F 0106C         PUSHAB  TEST+17
   00000000G EF             02    FB 01072         CALLS   #2,STR$TRIM
                00000000G   EF    9F 01079         PUSHAB  INPUT_DESC                              ; 6594
                00000011G   EF    9F 0107F         PUSHAB  TEST+17
   00000000G EF             02    FB 01085         CALLS   #2,LIB$SCOPY_DXDX
   00000014G EF 00000004G   EF    D0 0108C         MOVL    INPUT_DESC+4,PARAM_BLOCK+20             ; 6595
   00000010G EF 00000000G   EF    3C 01097         MOVZWL  INPUT_DESC,PARAM_BLOCK+16               ; 6596
00v00000000G EF             00    E1 010A2         BBC     #0,JOURNAL_ENABLED,131$                 ; 6602
                00000011G   EF    B5 010AA         TSTW    TEST+17                                 ; 6604
                          00V    1B 010B0         BLEQU   129$
             7E 00000011G   EF    3C 010B2         MOVZWL  TEST+17,-(SP)                           ; 6606
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                                00    DD 010B9          PUSHL   #0
                 50 00000015G   EF    D0 010BB          MOVL    TEST+21,R0
                                60    9F 010C2          PUSHAB  (R0)
                    000000FF    8F    DD 010C4          PUSHL   #255
                    00000000G   EF    9F 010CA          PUSHAB  JOURNAL_FILE
        00000000G   EF          05    FB 010D0          CALLS   #5,PAS$WRITE_STRING
                    00000000G   EF    9F 010D7          PUSHAB  JOURNAL_FILE
        00000000G   EF          01    FB 010DD          CALLS   #1,PAS$WRITELN2
                                00V   11 010E4          BRB     130$
                    00000000G   EF    9F 010E6 129$:    PUSHAB  JOURNAL_FILE                          ; 6614
        00000000G   EF          01    FB 010EC          CALLS   #1,PAS$WRITELN2
                                         010F3 130$:
          006D   8F 00000011G   EF    B1 010F3 131$:    CMPW    TEST+17,#109                          ; 6616
                                00V   1B 010FC          BLEQU   136$
                                00    DD 010FE          PUSHL   #0                                    ; 6618
                                00    DD 01100          PUSHL   #0
                                00    DD 01102          PUSHL   #0
                    00B38030    8F    DD 01104          PUSHL   #11763760
        00000000G   EF          04    FB 0110A          CALLS   #4,LIB$SIGNAL
                                00V   11 01111          BRB     136$
                                         01113 134$:
                                         01113 136$:
            83   8F 0000001EG   EF    91 01113 137$:    CMPB    TEST+30,#-125                         ; 6632
                                00V   13 0111B          BEQL    139$
            59   8F 0000001EG   EF    91 0111D          CMPB    TEST+30,#89
                                03    13 01125          BEQL    .+3
                              0000V   31 01127          BRW     166$
                    FFFF54DC    EF    9F 0112A 139$:    PUSHAB  C.AWH                                 ; 6640
                                0B    DD 01130          PUSHL   #11
                    00000000G   EF    9F 01132          PUSHAB  PAS$FV_OUTPUT
        00000000G   EF          03    FB 01138          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF    9F 0113F          PUSHAB  ANSI_REVERSE
                                04    DD 01145          PUSHL   #4
                    00000000G   EF    9F 01147          PUSHAB  PAS$FV_OUTPUT
        00000000G   EF          03    FB 0114D          CALLS   #3,PAS$WRITE_STRING
                    FFFF54BE    EF    9F 01154          PUSHAB  C.AWI
                                03    DD 0115A          PUSHL   #3
                    00000000G   EF    9F 0115C          PUSHAB  PAS$FV_OUTPUT
        00000000G   EF          03    FB 01162          CALLS   #3,PAS$WRITE_STRING
                    00000000G   EF    9F 01169          PUSHAB  ANSI_RESET
                                04    DD 0116F          PUSHL   #4
                    00000000G   EF    9F 01171          PUSHAB  PAS$FV_OUTPUT
        00000000G   EF          03    FB 01177          CALLS   #3,PAS$WRITE_STRING
                    FFFF5498    EF    9F 0117E          PUSHAB  C.AWJ
                                03    DD 01184          PUSHL   #3
                    00000000G   EF    9F 01186          PUSHAB  PAS$FV_OUTPUT
        00000000G   EF          03    FB 0118C          CALLS   #3,PAS$WRITE_STRING
     00V00000000G   EF          30    E0 01193          BBS     #48,PAS$FV_INPUT,140$                 ; 6643
                    00000000G   EF    9F 0119B          PUSHAB  PAS$FV_INPUT
        00000000G   EF          01    FB 011A1          CALLS   #1,PAS$LOOK_AHEAD
     00V00000000G   EF          31    E0 011A8 140$:    BBS     #49,PAS$FV_INPUT,142$
                    00000000G   EF    9F 011B0          PUSHAB  PAS$FV_INPUT                          ; 6647
        00000000G   EF          01    FB 011B6          CALLS   #1,PAS$RESET2
                                00    DD 011BD          PUSHL   #0                                    ; 6648
                                00    DD 011BF          PUSHL   #0
                                00    DD 011C1          PUSHL   #0
                    00B3804B    8F    DD 011C3          PUSHL   #11763787
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   00000000G  EF                04   FB 011C9         CALLS    #4,LIB$SIGNAL
                    000000FF    8F   DD 011D0 142$:   PUSHL    #255                               ; 6652
                    00000000G   EF   9F 011D6         PUSHAB   PAS$FV_INPUT
                         FEED   CC   9F 011DC         PUSHAB   -275(RT2)
   00000000G  EF                03   FB 011E0         CALLS    #3,PAS$READ_STRING
                    00000000G   EF   9F 011E7         PUSHAB   PAS$FV_INPUT
   00000000G  EF                01   FB 011ED         CALLS    #1,PAS$READLN2
                    00000000G   EF   9F 011F4         PUSHAB   CRLF                               ; 6653
                                02   DD 011FA         PUSHL    #2
                    00000000G   EF   9F 011FC         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                03   FB 01202         CALLS    #3,PAS$WRITE_STRING
                    00000000G   EF   9F 01209         PUSHAB   PAS$FV_OUTPUT
   00000000G  EF                01   FB 0120F         CALLS    #1,PAS$WRITELN2
          F0  AC    00000000G   EF   7D 01216         MOVQ     NULL_STRING,-16(R12)               ; 6655
          F0  AD    010E00FF    8F   D0 0121E         MOVL     #17694975,-16(FP)                  ; 6656
          F4  AD         FEED   CC   9E 01226         MOVAB    -275(R12),-12(FP)
                           F0   AD   9F 0122C         PUSHAB   -16(FP)
                           F0   AC   9F 0122F         PUSHAB   -16(R12)
   00000000G  EF                02   FB 01232         CALLS    #2,STR$TRIM
                    00000000G   EF   9F 01239         PUSHAB   INPUT_DESC                         ; 6657
                           F0   AC   9F 0123F         PUSHAB   -16(RT2)
   00000000G  EF                02   FB 01242         CALLS    #2,LIB$SCOPY_DXDX
   00000014G  EF    00000004G   EF   D0 01249         MOVL     INPUT_DESC+4,PARAM_BLOCK+20        ; 6658
   00000010G  EF    00000000G   EF   3C 01254         MOVZWL   INPUT_DESC,PARAM_BLOCK+16          ; 6659
00V00000000G  EF                00   E1 0125F         BBC      #0,JOURNAL_ENABLED,148$            ; 6665
                           F0   AC   B5 01267         TSTW     -16(R12)                           ; 6667
                               00V   15 0126A         BLEQ     146$
              7E           F0   AC   3C 0126C         MOVZWL   -16(R12),-(SP)                     ; 6669
                                00   DD 01270         PUSHL    #0
                           F4   BC   9F 01272         PUSHAB   @-12(R12)
                    000000FF    8F   DD 01275         PUSHL    #255
                    00000000G   EF   9F 0127B         PUSHAB   JOURNAL_FILE
   00000000G  EF                05   FB 01281         CALLS    #5,PAS$QRITE_STRING
                    00000000G   EF   9F 01288         PUSHAB   JOURNAL_FILE
   00000000G  EF                01   FB 0128E         CALLS    #1,PAS$QRITELN2
                               00V   11 01295         BRB      148$
                    00000000G   EF   9F 01297 146$:   PUSHAB   JOURNAL_FILE                       ; 6677
   00000000G  EF                01   FB 0129D         CALLS    #1,PAS$QRITELN2
                           F0   AC   B5 012A4 148$:   TSTW     -16(R12)                           ; 6679
                               00V   12 012A7         BNEQ     150$
                           F0   AC   9F 012A9         PUSHAB   -16(R12)                           ; 6683
   00000000G  EF                01   FB 012AC         CALLS    #1,STR$FREE1_DX
                                00   DD 012B3         PUSHL    #0                                 ; 6684
                                00   DD 012B5         PUSHL    #0
                                00   DD 012B7         PUSHL    #0
                    00B38040    8F   DD 012B9         PUSHL    #11763776
   00000000G  EF                04   FB 012BF         CALLS    #4,LIB$SIGNAL
                           F8   AC   9F 012C6 150$:   PUSHAB   -8(R12)                            ; 6688
                           F0   AC   9F 012C9         PUSHAB   -16(R12)
   00000000G  EF                02   FB 012CC         CALLS    #2,OTS$CVT_TI_L
   00000000G  EF                50   D0 012D3         MOVL     R0,ISTATUS
              00V00000000G      EF   E9 012DA         BLBC     ISTATUS,152$                       ; 6690
   00000027G  EF           F8   AC   D0 012E1         MOVL     -8(R12),TEST+39                    ; 6692
                               00V   11 012E9         BRB      157$
   00000000G  EF           F4   BC   91 012EB 152$:   CMPB     @-12(R12),APOSTROPHE               ; 6694
                               00V   12 012F3         BNEQ     154$
              50           F4   AC   D0 012F5         MOVL     -12(R12),R0
```

```
                             00000000G  EF       02   A0   91 012F9          CMPB    2(R0),APOSTROPHE
                                                      00V  13 01301          BEQL    155$
                                                 F0   AC   9F 01303  154$:   PUSHAB  -16(R12)                                    ; 6702
                             00000000G  EF            01   FB 01306          CALLS   #1,STR$FREE1_DX
                                                      00   DD 0130D          PUSHL   #0                                          ; 6703
                                                      00   DD 0130F          PUSHL   #0
                                                      00   DD 01311          PUSHL   #0
                                           00B38030   8F   DD 01313          PUSHL   #11763760
                             00000000G  EF            04   FB 01319          CALLS   #4,LIB$SIGNAL
                                                      00V  11 01320          BRB     157$
                                       50        F4   AC   D0 01322  155$:   MOVL    -12(R12),R0                                 ; 6709
                             00000027G  EF       01   A0   9A 01326          MOVZBL  1(R0),TEST+39
                                   59   8F 0000001EG  EF   91 0132E  157$:   CMPB    TEST+30,#89                                 ; 6711
                                                      00V  12 01336          BNEQ    165$
                                        20 00000027G  EF   D1 01338          CMPL    TEST+39,#32                                 ; 6718
                                                      00V  19 0133F          BLSS    163$
00000027G   EF      5A    8F            07            00   ED 01341          CMPZV   #0,#7,#^X5A,TEST+39
                                                      00V  19 0134B          BLSS    163$
                                        23 00000027G  EF   D1 0134D          CMPL    TEST+39,#35
                                                      00V  13 01354          BEQL    163$
                                        24 00000027G  EF   D1 01356          CMPL    TEST+39,#36
                                                      00V  13 0135D          BEQL    163$
00000027G   EF      40    8F            07            00   ED 0135F          CMPZV   #0,#7,#^X40,TEST+39
                                                      00V  12 01369          BNEQ    164$
                                                 F0   AC   9F 0136B  163$:   PUSHAB  -16(R12)                                    ; 6732
                             00000000G  EF            01   FB 0136E          CALLS   #1,STR$FREE1_DX
                                                      00   DD 01375          PUSHL   #0                                          ; 6733
                                                      00   DD 01377          PUSHL   #0
                                                      00   DD 01379          PUSHL   #0
                                           00B38038   8F   DD 0137B          PUSHL   #11763768
                             00000000G  EF            04   FB 01381          CALLS   #4,LIB$SIGNAL
                                                              01388  164$:
                                                              01388  165$:
                                           00000000G  EF   94 01388  166$:   CLRB    TEMP_FULL_PROMPT                            ; 6744
                                                           04 0138E          RET                                                 ; 6746

; Routine Size: 5007 bytes,    Routine Base: $CODE + 0D880

                                                              0EC0F          .END
```

```
COMMAND QUALIFIERS

  PASCAL/MACHINE/NODEBUG/NOCHECK/LIS=LIS$:EDFASK/OBJ=OBJ$:EDFASK MSRC$:EDFASK

  /CHECK=(NOBOUNDS,NOCASE_SELECTORS,NOOVERFLOW,NOPOINTERS,NOSUBRANGE)
  /DEBUG=(NOSYMBOLS,NOTRACEBACK)
  /ENVIRONMENT= $255$DUA28:[EDF.OBJ]EDFASK.PEN;1
  /LIST= $255$DUA28:[EDF.LIS]EDFASK.LIS;1
  /OBJECT= $255$DUA28:[EDF.OBJ]EDFASK.OBJ;1
  /NOCROSS_REFERENCE /ERROR_LIMIT=30 /NOG_FLOATING /MACHINE_CODE /NOOLD_VERSION /OPTIMIZE /NOSTANDARD /WARNINGS


COMPILER INTERNAL TIMING

  Phase                    Faults        CPU Time       Elapsed Time
  Initialization               89        00:00.5          00:02.5
  Source Analysis            1199        00:31.6          05:00.3
  Source Listing               50        00:08.2          00:16.4
  Tree Construction          1182        00:06.2          00:12.5
  Flow Analysis               111        00:02.9          00:05.2
  Profit Analysis              62        00:03.3          00:07.0
  Context Analysis           1121        00:37.2          01:11.1
  Name Packing                 67        00:01.2          00:02.0
  Code Selection              809        00:09.0          00:19.1
  Final                       834        00:46.3          02:02.3
  TOTAL                      5531        02:26.5          09:18.5


COMPILATION STATISTICS

  CPU Time:        02:26.5         (2774 Lines/Minute)
  Elapsed Time:    09:18.5
  Page Faults:     5531
  Compilation Complete
```

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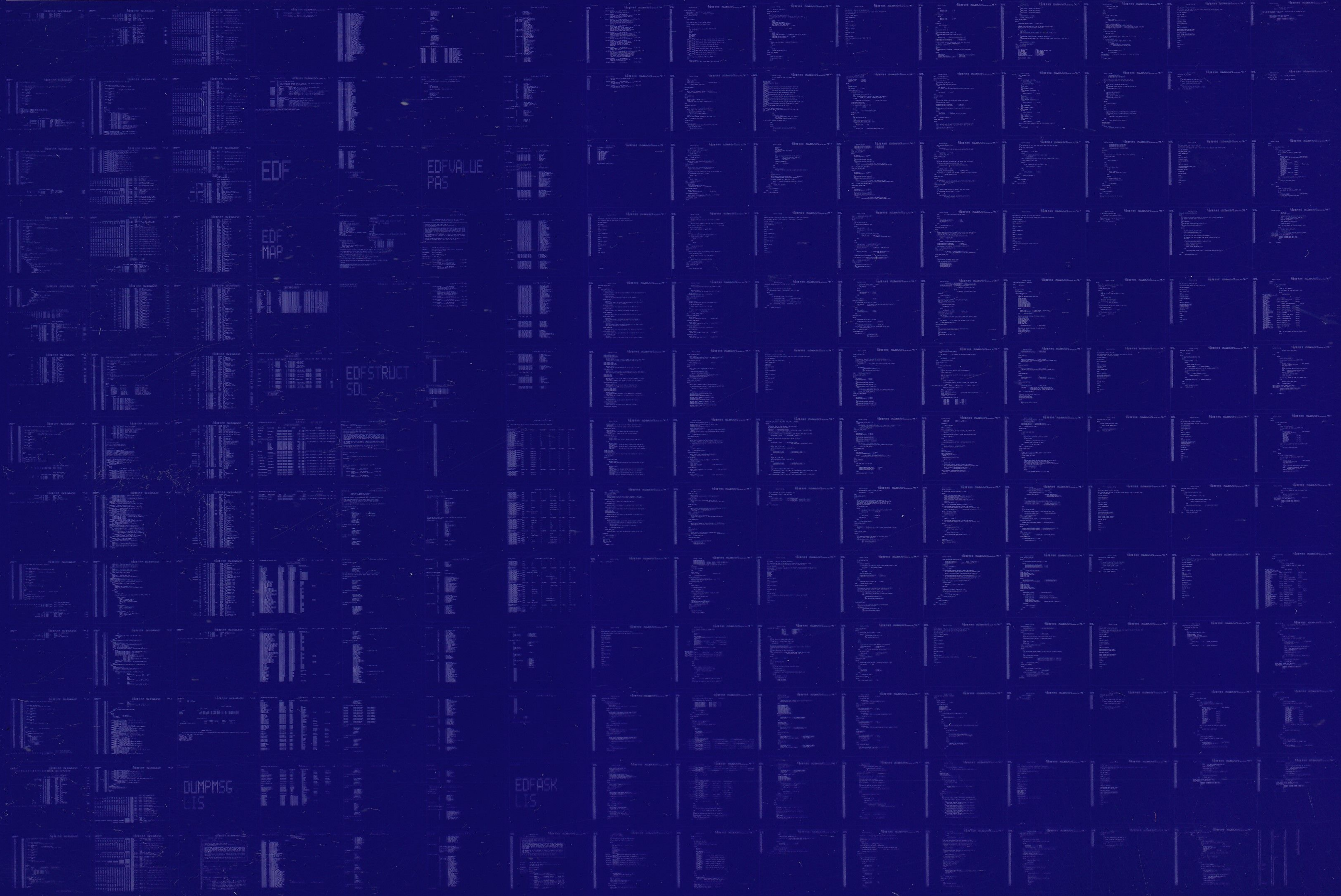

EDF

EDFVALUE
PAS

EDF
MAP

EDFSTRUCT
SDL

DUMPMSG
LIS

EDFASK
LIS

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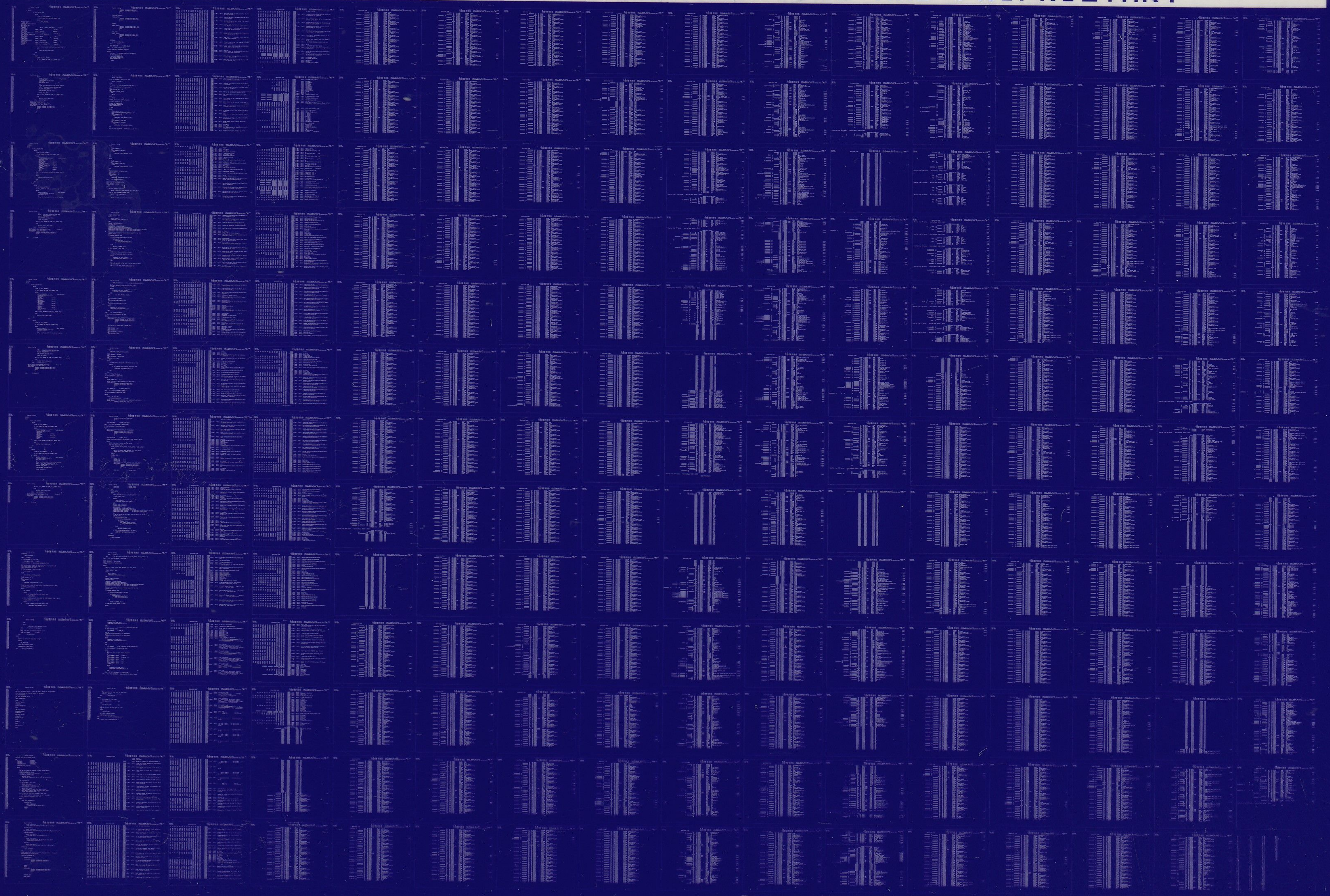

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EDFCHF
LIS

EDFFUNCS
LIS

EDFEXTERN
LIS

EDFDESIGN
LIS

EDFCONST
LIS