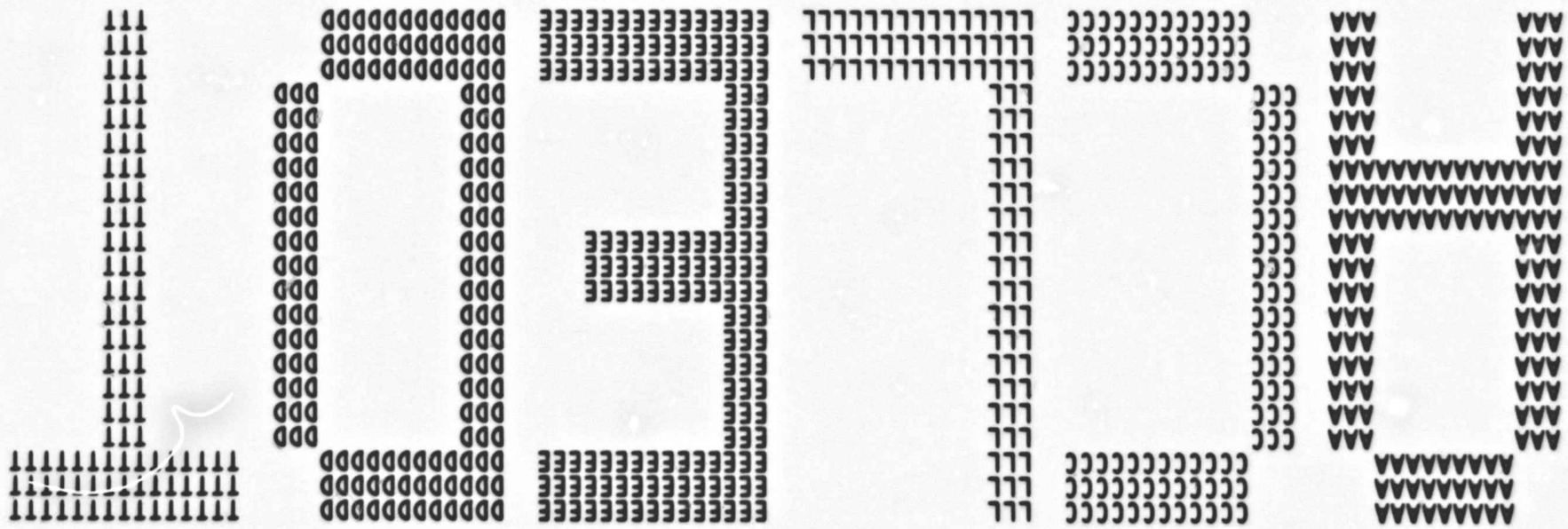
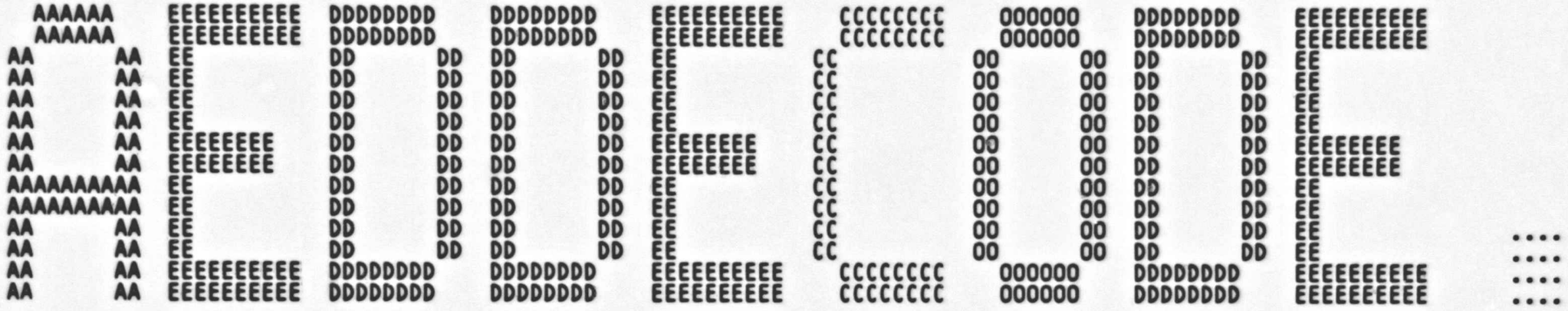
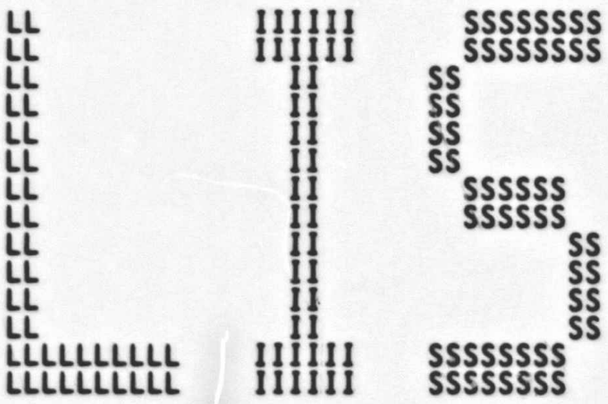


FILEID**AEDDECODE





```
;     1          0001  0 MODULE AED$DECODE (
;     2          0002  0                     LANGUAGE (BLISS32),
;     3          0003  0                     IDENT = 'V04-000'
;     4          0004  0                     ) =
;     5          0005  1 BEGIN
;     6          0006  1
;     7          0007  1 !*****************************************************************************
;     8          0008  1 !*                                                                           *
;     9          0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
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;    21          0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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;    25          0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;    26          0026  1 !*                                                                           *
;    27          0027  1 !*                                                                           *
;    28          0028  1 !*****************************************************************************
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 !
;    32          0032  1 ! FACILITY:     Miscellaneous utilities
;    33          0033  1 !
;    34          0034  1 ! ABSTRACT:
;    35          0035  1 !
;    36          0036  1 !       This module contains the routines necessary to read the action
;    37          0037  1 !       definition file and decode the users input based upon the action
;    38          0038  1 !       definitions.
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT:
;    41          0041  1 !
;    42          0042  1 !       VAX/VMS operating system, user mode utilities.
;    43          0043  1 !
;    44          0044  1 !--
;    45          0045  1 !
;    46          0046  1 !
;    47          0047  1 ! AUTHOR:       L. Mark Pilant          CREATION DATE:  15-Sep-1982  15:30
;    48          0048  1 !
;    49          0049  1 ! MODIFIED BY:
;    50          0050  1 !
;    51          0051  1 !       V03-005 LMP0213         L. Mark Pilant,         24-Mar-1984  12:23
;    52          0052  1 !               Add support for locking and unlocking the object's ACL.
;    53          0053  1 !
;    54          0054  1 !       V03-004 LMP0193         L. Mark Pilant,         14-Feb-1984  10:04
;    55          0055  1 !               Add support for additional edition actions: delete BOL,
;    56          0056  1 !               session reset, and quit session.
;    57          0057  1 !
```

```
;    58          0058  1 !       V03-003 LMP0172         L. Mark Pilant,         28-Nov-1983  12:11
;    59          0059  1 !               Numerous bug fixes, support for VT2xx terminals, and a
;    60          0060  1 !               session keystroke logger.
;    61          0061  1 !
;    62          0062  1 !       V03-002 LMP0142         L. Mark Pilant,         24-Aug-1983  3:17
;    63          0063  1 !               Change references to ACLEDIT$INI to be ACLEDIT$INIT.
;    64          0064  1 !
;    65          0065  1 !       V03-001 LMP0103         L. Mark Pilant,         21-Apr-1983  12:44
;    66          0066  1 !               Add support for HIDDEN and PROTECTED ACEs.
;    67          0067  1 !
;    68          0068  1 !**
;    69          0069  1
;    70          0070  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    71          0071  1 LIBRARY 'SYS$LIBRARY:TPAMAC.L32';
;    72          0072  1 REQUIRE 'SRC$:ACLEDTDEF';
```

```
;    74          0525  1 FORWARD ROUTINE
;    75          0526  1         AED_GETKEYINI,                  ! Check for & read definition file
;    76          0527  1         AED_DECODEKEY,                  ! Decode input given definitions
;    77          0528  1         AED_FLUSHKEY,                   ! Flush session buffer & close file
;    78          0529  1
;    79          0530  1 ! TPARSE action routine.
;    80          0531  1
;    81          0532  1         SET_RUBOUT,                     ! Set rubout as the string definition
;    82          0533  1         SET_DEFINITION;                 ! Define a key
;    83          0534  1
;    84          0535  1 EXTERNAL ROUTINE
;    85          0536  1         AED_FILERROR    : NOVALUE,      ! RMS file error reporting
;    86          0537  1         AED_PUTOUTPUT,                  ! General purpose output routine
;    87          0538  1         AED_SET_CURSOR;                 ! Set cursor position & remember
;    88          0539  1
;    89          0540  1 EXTERNAL
;    90          0541  1         KEY_TABLE       : $BBLOCK [8];  ! Key definition table listhead
;    91          0542  1
;    92          0543  1 ! Storage for TPARSE usage.
;    93          0544  1
;    94          0545  1 OWN
;    95          0546  1         KEY_BLOCK       : $BBLOCK [KEY_C_LENGTH],       ! Key definition block
;    96          0547  1         KEY_STRING      : $BBLOCK [DSC$C_S_BLN];        ! Key string descriptor
;    97          0548  1
;    98          0549  1 BIND
;    99          0550  1         KEY_ACTION      = KEY_BLOCK[KEY_B_ACTION] : BYTE,       ! Action code
;   100          0551  1         KEY_FLAGS       = KEY_BLOCK[KEY_B_FLAGS] : BYTE;        ! Needed flags
;   101          0552  1
;   102          0553  1 ! TPARSE state tables to parse the action definition file.
;   103          0554  1
;   104          0555  1 $INIT_STATE     (KEYDEF_STATE, KEYDEF_KEY);
;   105          0556  1
;   106        P 0557  1 $STATE   (SWALLOW_1,
;   107        P 0558  1           (TPA$_BLANK,SWALLOW_1),
;   108        P 0559  1           ('DEFINE')
;   109          0560  1           );
;   110          0561  1
;   111        P 0562  1 $STATE   (SWALLOW_2,
;   112        P 0563  1           (TPA$_BLANK,SWALLOW_2),
;   113        P 0564  1           ('GOLD',,KEY_C_GOLD,KEY_ACTION),
;   114        P 0565  1           ('HELP',,KEY_C_HELP,KEY_ACTION),
;   115        P 0566  1           ('HELP_FORMAT',,KEY_C_HELPFMT,KEY_ACTION),
;   116        P 0567  1           ('LOCATE_STRING',,KEY_C_FIND_STR,KEY_ACTION),
;   117        P 0568  1           ('LOCATE_NEXT',,KEY_C_FIND_NXT,KEY_ACTION),
;   118        P 0569  1           ('DELETE_ACE',,KEY_C_DEL_ACE,KEY_ACTION),
;   119        P 0570  1           ('UNDELETE_ACE',,KEY_C_UNDEL_ACE,KEY_ACTION),
;   120        P 0571  1           ('SELECT_FIELD',,KEY_C_SEL_FIELD,KEY_ACTION),
;   121        P 0572  1           ('ADVANCE_FIELD',,KEY_C_ADV_FIELD,KEY_ACTION),
;   122        P 0573  1           ('DELETE_WORD',,KEY_C_DEL_WRD,KEY_ACTION),
;   123        P 0574  1           ('UNDELETE_WORD',,KEY_C_UNDEL_WRD,KEY_ACTION),
;   124        P 0575  1           ('ADVANCE_POSITION',,KEY_C_ADVANCE,KEY_ACTION),
;   125        P 0576  1           ('BACKUP_POSITION',,KEY_C_BACKUP,KEY_ACTION),
;   126        P 0577  1           ('DELETE_CHARACTER',,KEY_C_DEL_CHR,KEY_ACTION),
;   127        P 0578  1           ('UNDELETE_CHARACTER',,KEY_C_UNDEL_CHR,KEY_ACTION),
;   128        P 0579  1           ('MOVE_WORD',,KEY_C_MOVE_WRD,KEY_ACTION),
;   129        P 0580  1           ('MOVE_ACE',,KEY_C_MOVE_ACE,KEY_ACTION),
;   130        P 0581  1           ('MOVE_EOL',,KEY_C_MOVE_EOL,KEY_ACTION),
```

```
;  131          P 0582  1          ('DELETE_EOL',,,KEY_C_DEL_EOL,KEY_ACTION),
;  132          P 0583  1          ('INSERT_ACE',,,KEY_C_INSERT,KEY_ACTION),
;  133          P 0584  1          ('SELECT_ITEM',,,KEY_C_SEL_ITEM,KEY_ACTION),
;  134          P 0585  1          ('ENTER_ACE',,,KEY_C_ENTER,KEY_ACTION),
;  135          P 0586  1          ('PREVIOUS_SCREEN',,,KEY_C_PREV_SCREEN,KEY_ACTION),
;  136          P 0587  1          ('NEXT_SCREEN',,,KEY_C_NEXT_SCREEN,KEY_ACTION),
;  137          P 0588  1          ('UP_ARROW',,,KEY_C_UP,KEY_ACTION),
;  138          P 0589  1          ('DOWN_ARROW',,,KEY_C_DOWN,KEY_ACTION),
;  139          P 0590  1          ('RIGHT_ARROW',,,KEY_C_RIGHT,KEY_ACTION),
;  140          P 0591  1          ('LEFT_ARROW',,,KEY_C_LEFT,KEY_ACTION),
;  141          P 0592  1          ('INSERT_OVERSTRIKE',,,KEY_C_OVERSTRIKE,KEY_ACTION),
;  142          P 0593  1          ('MOVE_BOL',,,KEY_C_MOVE_BOL,KEY_ACTION),
;  143          P 0594  1          ('RUBOUT_WORD',,,KEY_C_RUB_WRD,KEY_ACTION),
;  144          P 0595  1          ('SCREEN_REFRESH',,,KEY_C_REFRESH,KEY_ACTION),
;  145          P 0596  1          ('SESSION_RESET',,,KEY_C_RESET,KEY_ACTION),
;  146          P 0597  1          ('RUBOUT_BOL',,,KEY_C_RUB_BOL,KEY_ACTION),
;  147          P 0598  1          ('UNDELETE_LINE',,,KEY_C_UNDEL_LIN,KEY_ACTION),
;  148          P 0599  1          ('EXIT',,,KEY_C_EXIT,KEY_ACTION),
;  149          P 0600  1          ('QUIT_SESSION',,,KEY_C_QUIT,KEY_ACTION),
;  150          P 0601  1          ('RUBOUT_CHARACTER',,,KEY_C_RUB_CHR,KEY_ACTION)
;  151            0602  1          );
;  152            0603  1
;  153          P 0604  1 $STATE   (SWALLOW_3,
;  154          P 0605  1          (TPA$_BLANK,SWALLOW_3),
;  155          P 0606  1          ('AS')
;  156            0607  1          );
;  157            0608  1
;  158          P 0609  1 $STATE   (KEY_DEFINE,
;  159          P 0610  1          (TPA$_BLANK,KEY_DEFINE),
;  160          P 0611  1          ('GOLD',,,KEY_M_GOLDREQ,KEY_FLAGS),
;  161          P 0612  1          ('CONTROL',GET_TEXT,,KEY_M_CTRLCHAR,KEY_FLAGS),
;  162          P 0613  1          ('ESCAPE',GET_TEXT,,KEY_M_ESCSEQ,KEY_FLAGS),
;  163          P 0614  1          ('CSI',GET_TEXT,,KEY_M_CSI,KEY_FLAGS),
;  164          P 0615  1          ('SS3',GET_TEXT,,KEY_M_SS3,KEY_FLAGS),
;  165          P 0616  1          ('RUBOUT',,SET_RUBOUT),
;  166          P 0617  1          (TPA$_EOS,TPA$_FAIL),
;  167            0618  1          );
;  168          P 0619  1 $STATE   (CHECK_END,
;  169          P 0620  1          (TPA$_BLANK,CHECK_END),
;  170          P 0621  1          (',',KEY_DEFINE),
;  171          P 0622  1          ('OR',KEY_DEFINE,SET_DEFINITION),
;  172          P 0623  1          (TPA$_EOS,TPA$_EXIT,SET_DEFINITION)
;  173            0624  1          );
;  174            0625  1
;  175          P 0626  1 $STATE   (GET_TEXT,
;  176          P 0627  1          (TPA$_BLANK,GET_TEXT),
;  177          P 0628  1          (',')
;  178            0629  1          );
;  179          P 0630  1 $STATE   (SWALLOW_4,
;  180          P 0631  1          (TPA$_BLANK,SWALLOW_4),
;  181          P 0632  1          ((GET_STRING),CHECK_END,,KEY_STRING)
;  182            0633  1          );
;  183            0634  1
;  184          P 0635  1 $STATE   (GET_STRING,
;  185          P 0636  1          ((CHECK_DELIM),GET_STRING),
;  186          P 0637  1          (TPA$_LAMBDA,TPA$_EXIT)
;  187            0638  1          );
```

```
;  188          P 0639  1 $STATE  (CHECK_DELIM,
;  189          P 0640  1          (',',TPA$_FAIL),
;  190          P 0641  1          (' ',TPA$_FAIL),
;  191          P 0642  1          (TPA$_EOS,TPA$_FAIL),
;  192          P 0643  1          (TPA$_ANY,TPA$_EXIT)
;  193            0644  1          );
```

```
;  195          0645  1 GLOBAL ROUTINE AED_GETKEYINI =
;  196          0646  1
;  197          0647  1 !++
;  198          0648  1 !
;  199          0649  1 ! FUNCTIONAL DESCRIPTION:
;  200          0650  1 !
;  201          0651  1 !       This routine attempts to open the action definition file pointed
;  202          0652  1 !       to by the logical name ACLEDIT$INIT.  If the logical name does not
;  203          0653  1 !       exist a success return is given.  If the logical name exists, but
;  204          0654  1 !       the file it points to does not, a warning message is given, and a
;  205          0655  1 !       success return is given.  If any errors occur while reading the
;  206          0656  1 !       definition file, the appropriate error message is given.
;  207          0657  1 !
;  208          0658  1 ! CALLING SEQUENCE:
;  209          0659  1 !       AED_GETKEYINI ()
;  210          0660  1 !
;  211          0661  1 ! INPUT PARAMETERS:
;  212          0662  1 !       none
;  213          0663  1 !
;  214          0664  1 ! IMPLICIT INPUTS:
;  215          0665  1 !       none
;  216          0666  1 !
;  217          0667  1 ! OUTPUT PARAMETERS:
;  218          0668  1 !       none
;  219          0669  1 !
;  220          0670  1 ! IMPLICIT OUTPUTS:
;  221          0671  1 !       none
;  222          0672  1 !
;  223          0673  1 ! ROUTINE VALUE:
;  224          0674  1 !       1 if successful, logical name does not exist, or file does not exist
;  225          0675  1 !       error code otherwise
;  226          0676  1 !
;  227          0677  1 ! SIDE EFFECTS:
;  228          0678  1 !       none
;  229          0679  1 !
;  230          0680  1 !--
;  231          0681  1
;  232          0682  2 BEGIN
;  233          0683  2
;  234          0684  2 LOCAL
;  235          0685  2         KEYINI_FAB      : $FAB_DECL,                    ! Key definition file FAB
;  236          0686  2         KEYINI_RAB      : $RAB_DECL,                    ! Key definition file RAB
;  237          0687  2         KEYINI_NAM      : $NAM_DECL,                    ! Key definition file NAM block
;  238          0688  2         KEYINI_EXP_NAM  : $BBLOCK [NAM$C_MAXRSS],       ! Expanded name storage
;  239          0689  2         KEYINI_RES_NAM  : $BBLOCK [NAM$C_MAXRSS],       ! Resultant name storage
;  240          0690  2         DEFINE_LINE     : VECTOR [512,BYTE],            ! Line from definition file
;  241          0691  2         TPARSE_BLOCK    : $BBLOCK [TPA$K_LENGTH0],      ! Parser context block
;  242          0692  2         LINE_INDEX,                                     ! Index into line read in
;  243          0693  2         LOCAL_STATUS;                                   ! Local error status
;  244          0694  2
;  245          0695  2 ! Initialize the necessary RMS data structures.
;  246          0696  2
;  247        P 0697  2 $FAB_INIT (FAB = KEYINI_FAB,
;  248        P 0698  2            FAC = GET,
;  249        P 0699  2            FNA = UPLIT ('ACLEDIT$INIT:'),
;  250        P 0700  2            FNS = %CHARCOUNT ('ACLEDIT$INIT:'),
;  251        P 0701  2            FOP = SQO,
```

```
;  252          P 0702  2              NAM = KEYINI_NAM,
;  253          P 0703  2              ORG = SEQ,
;  254            0704  2              RFM = VAR);
;  255          P 0705  2      $NAM_INIT (NAM = KEYINI_NAM,
;  256          P 0706  2                 ESA = KEYINI_EXP_NAM,
;  257          P 0707  2                 ESS = NAM$C_MAXRSS,
;  258          P 0708  2                 RSA = KEYINI_RES_NAM,
;  259          P 0709  2                 RSS = NAM$C_MAXRSS);
;  260          P 0710  2      $RAB_INIT (RAB = KEYINI_RAB,
;  261          P 0711  2                 FAB = KEYINI_FAB,
;  262            0712  2                 RAC = SEQ);
;  263            0713  2
;  264            0714  2      ! Open the action definition file.  If the open results in the RMS$_DEV error,
;  265            0715  2      ! it is assumed that the logical name does not exist, and success is returned.
;  266            0716  2      ! If the open results in the RMS$_FNF error, a warning message is issued, and
;  267            0717  2      ! success is returned.  Any other error results in the approprate error message
;  268            0718  2      ! being signaled, and the editing session terminated.
;  269            0719  2
;  270            0720  3      IF NOT $OPEN (FAB = KEYINI_FAB)
;  271            0721  2      THEN
;  272            0722  3          BEGIN
;  273            0723  3          IF .KEYINI_FAB[FAB$L_STS] EQL RMS$_DEV THEN RETURN 1;
;  274            0724  3          AED_FILERROR (AED$_INIOPENIN, KEYINI_FAB, .KEYINI_FAB[FAB$L_STS],
;  275            0725  3                                                    .KEYINI_FAB[FAB$L_STV]);
;  276            0726  3          IF .KEYINI_FAB[FAB$L_STS] EQL RMS$_FNF THEN RETURN 1;
;  277            0727  3          RETURN .AED_L_WORSTERR;
;  278            0728  2          END;
;  279            0729  3      IF NOT $CONNECT (RAB = KEYINI_RAB)
;  280            0730  2      THEN
;  281            0731  3          BEGIN
;  282            0732  3          AED_FILERROR (AED$_INIOPENIN, KEYINI_FAB, .KEYINI_RAB[RAB$L_STS],
;  283            0733  3                                                    .KEYINI_RAB[RAB$L_STV]);
;  284            0734  3          RETURN .AED_L_WORSTERR;
;  285            0735  2          END;
;  286            0736  2
;  287            0737  2      ! Loop reading the action definition file, replacing any default definition
;  288            0738  2      ! with those from the definition file.
;  289            0739  2
;  290            0740  2      WHILE 1
;  291            0741  2      DO
;  292            0742  3          BEGIN
;  293            0743  3          KEYINI_RAB[RAB$L_UBF] = DEFINE_LINE;
;  294            0744  3          KEYINI_RAB[RAB$W_USZ] = 512;
;  295            0745  4          IF NOT $GET (RAB = KEYINI_RAB)
;  296            0746  3          THEN
;  297            0747  4              BEGIN
;  298            0748  4              IF .KEYINI_RAB[RAB$L_STS] EQL RMS$_EOF THEN EXITLOOP;
;  299            0749  4              AED_FILERROR (AED$_INIREADERR, KEYINI_FAB, .KEYINI_RAB[RAB$L_STS],
;  300            0750  4                                                         .KEYINI_RAB[RAB$L_STV]);
;  301            0751  4              RETURN .AED_L_WORSTERR;
;  302            0752  3              END;
;  303            0753  3          KEY_ACTION = 0;
;  304            0754  3          KEY_FLAGS = 0;
;  305            0755  3          KEY_STRING[DSC$W_LENGTH] = 0;
;  306            0756  3
;  307            0757  3          IF .DEFINE_LINE[0] NEQ '!'
;  308            0758  3          THEN
```

```
;  309          0759  4          BEGIN
;  310          0760  4          LINE_INDEX = 0;
;  311          0761  4          UNTIL .LINE_INDEX GEQ .KEYINI_RAB[RAB$W_RSZ]
;  312          0762  4          DO
;  313          0763  5              BEGIN
;  314          0764  5              IF .DEFINE_LINE[.LINE_INDEX] EQL '<'
;  315          0765  5              THEN
;  316          0766  6                  BEGIN
;  317          0767  6                  DO
;  318          0768  7                      BEGIN
;  319          0769  7                      LINE_INDEX = .LINE_INDEX + 1;
;  320          0770  7                      IF .DEFINE_LINE[.LINE_INDEX] EQL '>' THEN EXITLOOP;
;  321          0771  7                      IF .LINE_INDEX GEQ .KEYINI_RAB[RAB$W_RSZ]
;  322          0772  7                      THEN
;  323          0773  8                          BEGIN
;  324        P 0774  8                          SIGNAL (AED$_DEFSYNTAX, 2, .KEYINI_RAB[RAB$W_RSZ],
;  325          0775  8                                                     DEFINE_LINE);
;  326          0776  8                          RETURN AED$_DEFSYNTAX;
;  327          0777  7                          END;
;  328          0778  7                      END
;  329          0779  6                  UNTIL .LINE_INDEX GEQ .KEYINI_RAB[RAB$W_RSZ];
;  330          0780  5                  END;
;  331          0781  5              IF .DEFINE_LINE[.LINE_INDEX] GEQ 'a'
;  332          0782  5              AND .DEFINE_LINE[.LINE_INDEX] LEQ 'z'
;  333          0783  5              THEN DEFINE_LINE[.LINE_INDEX] = .DEFINE_LINE[.LINE_INDEX] - 32;
;  334          0784  5              LINE_INDEX = .LINE_INDEX + 1;
;  335          0785  4              END;
;  336          0786  4          TPARSE_BLOCK[TPA$L_COUNT] = TPA$K_COUNTO;
;  337          0787  4          TPARSE_BLOCK[TPA$V_ABBREV] = 1;
;  338          0788  4          TPARSE_BLOCK[TPA$V_BLANKS] = 1;
;  339          0789  4          TPARSE_BLOCK[TPA$L_STRINGCNT] = .KEYINI_RAB[RAB$W_RSZ];
;  340          0790  4          TPARSE_BLOCK[TPA$L_STRINGPTR] = DEFINE_LINE;
;  341          0791  4
;  342          0792  4          LOCAL_STATUS = LIB$TPARSE (TPARSE_BLOCK, KEYDEF_STATE, KEYDEF_KEY);
;  343          0793  4          IF NOT .LOCAL_STATUS
;  344          0794  4          THEN
;  345          0795  5              BEGIN
;  346        P 0796  5              SIGNAL (AED$_DEFSYNTAX, 2, .TPARSE_BLOCK[TPA$L_STRINGCNT],
;  347          0797  5                                         .TPARSE_BLOCK[TPA$L_STRINGPTR]);
;  348          0798  5              RETURN AED$_DEFSYNTAX;
;  349          0799  4              END;
;  350          0800  3          END;
;  351          0801  2      END;
;  352          0802  2
;  353          0803  2  RETURN 1;
;  354          0804  2
;  355          0805  1  END;                                   ! End of routine AED_GETKEYINI


                                                                .TITLE  AED$DECODE
                                                                .IDENT  \V04-000\

                                                                .PSECT  _LIB$KEY1$,NOWRT,  SHR,  PIC,1

                                                        00000 ;TPA$KEYSTO
                                                        U.4:        .BLKB   0
                                    45  4E  49  46  45  44   00000 ;TPA$KEYST
```

```
                                                            U.6:    .ASCII  \DEFINE\                                        ;
                                                    FF  00006               .BYTE   -1                                      ;
                                                    FF  00007 ;TPA$KEYFILL
                                                            U.8:    .BYTE   -1                                              ;
                                                        00008 ;TPA$KEYSTO
                                                            U.11:   .BLKB   0
                                                44  4C  4F  47  00008 ;TPA$KEYST
                                                            U.13:   .ASCII  \GOLD\
                                                    FF  0000C               .BYTE   -1                                      ;
                                                        0000D ;TPA$KEYSTO
                                                            U.17:   .BLKB   0
                                                50  4C  45  48  0000D ;TPA$KEYST
                                                            U.19:   .ASCII  \HELP\
                                                    FF  00011               .BYTE   -1                                      ;
                                                        00012 ;TPA$KEYSTO
                                                            U.23:   .BLKB   0
                        54  41  4D  52  4F  46  5F  50  4C  45  48  00012 ;TPA$KEYST
                                                            U.25:   .ASCII  \HELP_FORMAT\
                                                    FF  0001D               .BYTE   -1                                      ;
                                                        0001E ;TPA$KEYSTO
                                                            U.29:   .BLKB   0
            47  4E  49  52  54  53  5F  45  54  41  43  4F  4C  0001E ;TPA$KEYST
                                                            U.31:   .ASCII  \LOCATE_STRING\
                                                    FF  0002B               .BYTE   -1                                      ;
                                                        0002C ;TPA$KEYSTO
                                                            U.35:   .BLKB   0
                        54  58  45  4E  5F  45  54  41  43  4F  4C  0002C ;TPA$KEYST
                                                            U.37:   .ASCII  \LOCATE_NEXT\
                                                    FF  00037               .BYTE   -1                                      ;
                                                        00038 ;TPA$KEYSTO
                                                            U.41:   .BLKB   0
                                45  43  41  5F  45  54  45  4C  45  44  00038 ;TPA$KEYST
                                                            U.43:   .ASCII  \DELETE_ACE\
                                                    FF  00042               .BYTE   -1                                      ;
                                                        00043 ;TPA$KEYSTO
                                                            U.47:   .BLKB   0
                            45  43  41  5F  45  54  45  4C  45  44  4E  55  00043 ;TPA$KEYST
                                                            U.49:   .ASCII  \UNDELETE_ACE\
                                                    FF  0004F               .BYTE   -1                                      ;
                                                        00050 ;TPA$KEYSTO
                                                            U.53:   .BLKB   0
                            44  4C  45  49  46  5F  54  43  45  4C  45  53  00050 ;TPA$KEYST
                                                            U.55:   .ASCII  \SELECT_FIELD\
                                                    FF  0005C               .BYTE   -1                                      ;
                                                        0005D ;TPA$KEYSTO
                                                            U.59:   .BLKB   0
        44  4C  45  49  46  5F  45  43  4E  41  56  44  41  0005D ;TPA$KEYST
                                                            U.61:   .ASCII  \ADVANCE_FIELD\
                                                    FF  0006A               .BYTE   -1                                      ;
                                                        0006B ;TPA$KEYSTO
                                                            U.65:   .BLKB   0
                        44  52  4F  57  5F  45  54  45  4C  45  44  0006B ;TPA$KEYST
                                                            U.67:   .ASCII  \DELETE_WORD\
                                                    FF  00076               .BYTE   -1                                      ;
                                                        00077 ;TPA$KEYSTO
                                                            U.71:   .BLKB   0
        44  52  4F  57  5F  45  54  45  4C  45  44  4E  55  00077 ;TPA$KEYST
```

```
                                                            U.73:    .ASCII  \UNDELETE_WORD\                  ;
                                              FF     00084           .BYTE   -1                               ;
                                                     00085  ;TPA$KEYST0
                                                            U.77:    .BLKB   0
4F 49 54 49 53 4F 50 5F 45 43 4E 41 56 44 41         00085  ;TPA$KEYST
                                                            U.79:    .ASCII  \ADVANCE_POSITION\               ;
                                              4E     00094                                                    ;
                                              FF     00095           .BYTE   -1                               ;
                                                     00096  ;TPA$KEYST0
                                                            U.83:    .BLKB   0
4E 4F 49 54 49 53 4F 50 5F 50 55 4B 43 41 42         00096  ;TPA$KEYST
                                                            U.85:    .ASCII  \BACKUP_POSITION\                ;
                                              FF     000A5           .BYTE   -1                               ;
                                                     000A6  ;TPA$KEYST0
                                                            U.89:    .BLKB   0
45 54 43 41 52 41 48 43 5F 45 54 45 4C 45 44         000A6  ;TPA$KEYST
                                                            U.91:    .ASCII  \DELETE_CHARACTER\               ;
                                              52     000B5                                                    ;
                                              FF     000B6           .BYTE   -1                               ;
                                                     000B7  ;TPA$KEYST0
                                                            U.95:    .BLKB   0
43 41 52 41 48 43 5F 45 54 45 4C 45 44 4E 55         000B7  ;TPA$KEYST
                                                            U.97:    .ASCII  \UNDELETE_CHARACTER\             ;
                                        52 45 54     000C6                                                    ;
                                              FF     000C9           .BYTE   -1                               ;
                                                     000CA  ;TPA$KEYST0
                                                            U.101:   .BLKB   0
                  44 52 4F 57 5F 45 56 4F 4D         000CA  ;TPA$KEYST
                                                            U.103:   .ASCII  \MOVE_WORD\                      ;
                                              FF     000D3           .BYTE   -1                               ;
                                                     000D4  ;TPA$KEYST0
                                                            U.107:   .BLKB   0
                     45 43 41 5F 45 56 4F 4D         000D4  ;TPA$KEYST
                                                            U.109:   .ASCII  \MOVE_ACE\                       ;
                                              FF     000DC           .BYTE   -1                               ;
                                                     000DD  ;TPA$KEYST0
                                                            U.113:   .BLKB   0
                     4C 4F 45 5F 45 56 4F 4D         000DD  ;TPA$KEYST
                                                            U.115:   .ASCII  \MOVE_EOL\                       ;
                                              FF     000E5           .BYTE   -1                               ;
                                                     000E6  ;TPA$KEYST0
                                                            U.119:   .BLKB   0
               4C 4F 45 5F 45 54 45 4C 45 44         000E6  ;TPA$KEYST
                                                            U.121:   .ASCII  \DELETE_EOL\                     ;
                                              FF     000F0           .BYTE   -1                               ;
                                                     000F1  ;TPA$KEYST0
                                                            U.125:   .BLKB   0
               45 43 41 5F 54 52 45 53 4E 49         000F1  ;TPA$KEYST
                                                            U.127:   .ASCII  \INSERT_ACE\                     ;
                                              FF     000FB           .BYTE   -1                               ;
                                                     000FC  ;TPA$KEYST0
                                                            U.131:   .BLKB   0
            4D 45 54 49 5F 54 43 45 4C 45 53         000FC  ;TPA$KEYST
                                                            U.133:   .ASCII  \SELECT_ITEM\                    ;
                                              FF     00107           .BYTE   -1                               ;
                                                     00108  ;TPA$KEYST0
                                                            U.137:   .BLKB   0
```

```
                                45 43 41 5F 52 45 54 4E 45  00108 ;TPA$KEYST
                                                            U.139:  .ASCII  \ENTER_ACE\
                                                         FF 00111           .BYTE   -1
                                                            00112 ;TPA$KEYSTO
                                                            U.143:  .BLKB   0
4E 45 45 52 43 53 5F 53 55 4F 49 56 45 52 50  00112 ;TPA$KEYST
                                                            U.145:  .ASCII  \PREVIOUS_SCREEN\
                                                         FF 00121           .BYTE   -1
                                                            00122 ;TPA$KEYSTO
                                                            U.149:  .BLKB   0
                             4E 45 45 52 43 53 5F 54 58 45 4E  00122 ;TPA$KEYST
                                                            U.151:  .ASCII  \NEXT_SCREEN\
                                                         FF 0012D           .BYTE   -1
                                                            0012E ;TPA$KEYSTO
                                                            U.155:  .BLKB   0
                                   57 4F 52 52 41 5F 50 55  0012E ;TPA$KEYST
                                                            U.157:  .ASCII  \UP_ARROW\
                                                         FF 00136           .BYTE   -1
                                                            00137 ;TPA$KEYSTO
                                                            U.161:  .BLKB   0
                                57 4F 52 52 41 5F 4E 57 4F 44  00137 ;TPA$KEYST
                                                            U.163:  .ASCII  \DOWN_ARROW\
                                                         FF 00141           .BYTE   -1
                                                            00142 ;TPA$KEYSTO
                                                            U.167:  .BLKB   0
                             57 4F 52 52 41 5F 54 48 47 49 52  00142 ;TPA$KEYST
                                                            U.169:  .ASCII  \RIGHT_ARROW\
                                                         FF 0014D           .BYTE   -1
                                                            0014E ;TPA$KEYSTO
                                                            U.173:  .BLKB   0
                                57 4F 52 52 41 5F 54 46 45 4C  0014E ;TPA$KEYST
                                                            U.175:  .ASCII  \LEFT_ARROW\
                                                         FF 00158           .BYTE   -1
                                                            00159 ;TPA$KEYSTO
                                                            U.179:  .BLKB   0
49 52 54 53 52 45 56 4F 5F 54 52 45 53 4E 49  00159 ;TPA$KEYST
                                                            U.181:  .ASCII  \INSERT_OVERSTRIKE\
                                                         45 4B 00168
                                                         FF 0016A           .BYTE   -1
                                                            0016B ;TPA$KEYSTO
                                                            U.185:  .BLKB   0
                                   4C 4F 42 5F 45 56 4F 4D  0016B ;TPA$KEYST
                                                            U.187:  .ASCII  \MOVE_BOL\
                                                         FF 00173           .BYTE   -1
                                                            00174 ;TPA$KEYSTO
                                                            U.191:  .BLKB   0
                             44 52 4F 57 5F 54 55 4F 42 55 52  00174 ;TPA$KEYST
                                                            U.193:  .ASCII  \RUBOUT_WORD\
                                                         FF 0017F           .BYTE   -1
                                                            00180 ;TPA$KEYSTO
                                                            U.197:  .BLKB   0
                48 53 45 52 46 45 52 5F 4E 45 45 52 43 53  00180 ;TPA$KEYST
                                                            U.199:  .ASCII  \SCREEN_REFRESH\
                                                         FF 0018E           .BYTE   -1
                                                            0018F ;TPA$KEYSTO
                                                            U.203:  .BLKB   0
                   54 45 53 45 52 5F 4E 4F 49 53 53 45 53  0018F ;TPA$KEYST
```

```
                                                                                    U.205:  .ASCII  \SESSION_RESET\                         ;
                                                                                FF  0019C           .BYTE   -1                              ;
                                                                                    0019D ;TPA$KEYSTO
                                                                                    U.209:  .BLKB   0
                                                                    4C  4F  42  5F  0019D ;TPA$KEYST
                                                                                    U.211:  .ASCII  \RUBOUT_BOL\                        ;
                                                                                FF  001A7           .BYTE   -1                              ;
                                                                                    001A8 ;TPA$KEYSTO
                                                                                    U.215:  .BLKB   0
                                                45  4E  49  4C  5F  45  54  45  001A8 ;TPA$KEYST
                                                                                    U.217:  .ASCII  \UNDELETE_LINE\                     ;
                                                                                FF  001B5           .BYTE   -1                              ;
                                                                                    001B6 ;TPA$KEYSTO
                                                                                    U.221:  .BLKB   0
                                                                        54  49  58  001B6 ;TPA$KEYST
                                                                                    U.223:  .ASCII  \EXIT\                              ;
                                                                                FF  001BA           .BYTE   -1                              ;
                                                                                    001BB ;TPA$KEYSTO
                                                                                    U.227:  .BLKB   0
                                                    4E  4F  49  53  53  45  53  001BB ;TPA$KEYST
                                                                                    U.229:  .ASCII  \QUIT_SESSION\                      ;
                                                                                FF  001C7           .BYTE   -1                              ;
                                                                                    001C8 ;TPA$KEYSTO
                                                                                    U.233:  .BLKB   0
45  54  43  41  52  41  48  43  5F  54  55  4F  42  55  52  001C8 ;TPA$KEYST
                                                                                    U.235:  .ASCII  \RUBOUT_CHARACTER\                  ;
                                                                                52  001D7                                                 ;
                                                                                FF  001D8           .BYTE   -1                              ;
                                                                                FF  001D9 ;TPA$KEYFILL
                                                                                    U.239:  .BYTE   -1                                  ;
                                                                                    001DA ;TPA$KEYSTO
                                                                                    U.242:  .BLKB   0
                                                                            53  41  001DA ;TPA$KEYST
                                                                                    U.244:  .ASCII  \AS\                                ;
                                                                                FF  001DC           .BYTE   -1                              ;
                                                                                FF  001DD ;TPA$KEYFILL
                                                                                    U.246:  .BYTE   -1                                  ;
                                                                                    001DE ;TPA$KEYSTO
                                                                                    U.249:  .BLKB   0
                                                                44  4C  4F  47  001DE ;TPA$KEYST
                                                                                    U.251:  .ASCII  \GOLD\                              ;
                                                                                FF  001E2           .BYTE   -1                              ;
                                                                                    001E3 ;TPA$KEYSTO
                                                                                    U.255:  .BLKB   0
                                                4C  4F  52  54  4E  4F  43  001E3 ;TPA$KEYST
                                                                                    U.257:  .ASCII  \CONTROL\                           ;
                                                                                FF  001EA           .BYTE   -1                              ;
                                                                                    001EB ;TPA$KEYSTO
                                                                                    U.263:  .BLKB   0
                                                    45  50  41  43  53  45  001EB ;TPA$KEYST
                                                                                    U.265:  .ASCII  \ESCAPE\                            ;
                                                                                FF  001F1           .BYTE   -1                              ;
                                                                                    001F2 ;TPA$KEYSTO
                                                                                    U.270:  .BLKB   0
                                                                    49  53  43  001F2 ;TPA$KEYST
                                                                                    U.272:  .ASCII  \CSI\                               ;
                                                                                FF  001F5           .BYTE   -1                              ;
```

```
                                                001F6 ;TPA$KEYSTO
                                                      U.277:    .BLKB   0
                                          33  53  53  001F6 ;TPA$KEYST
                                                      U.279:    .ASCII  \SS3\                                           ;
                                              FF      001F9             .BYTE   -1                                      ;
                                                      001FA ;TPA$KEYSTO
                                                      U.284:    .BLKB   0
                                      54  55  4F  42  55  52  001FA ;TPA$KEYST
                                                      U.286:    .ASCII  \RUBOUT\                                        ;
                                              FF      00200             .BYTE   -1                                      ;
                                              FF      00201 ;TPA$KEYFILL
                                                      U.291:    .BYTE   -1                                              ;
                                                      00202 ;TPA$KEYSTO
                                                      U.296:    .BLKB   0
                                          52  4F      00202 ;TPA$KEYST
                                                      U.298:    .ASCII  \OR\                                            ;
                                              FF      00204             .BYTE   -1                                      ;
                                              FF      00205 ;TPA$KEYFILL
                                                      U.305:    .BYTE   -1                                              ;

                                                                .PSECT  _LIB$STATE$,NOWRT,  SHR,  PIC,1

                                                00000 KEYDEF_STATE::
                                                                .BLKB   0
                                                00000 SWALLOW_1:
                                                                .BLKB   0
                                            11F2  00000 ;TPA$TYPE
                                                      U.2:      .WORD   4594                                            ;
                                           0000*  00002 ;TPA$TARGET
                                                      U.3:      .WORD   <<SWALLOW_1-U.3>-2>                             ;
                                            0500  00004 ;TPA$TYPE
                                                      U.7:      .WORD   1280                                            ;
                                                  00006 SWALLOW_2:
                                                                .BLKB   0
                                            11F2  00006 ;TPA$TYPE
                                                      U.9:      .WORD   4594                                            ;
                                           0000*  00008 ;TPA$TARGET
                                                      U.10:     .WORD   <<SWALLOW_2-U.10>-2>                            ;
                                            6101  0000A ;TPA$TYPE
                                                      U.14:     .WORD   24833                                           ;
                                       00000000*  0000C ;TPA$ADDR
                                                      U.15:     .LONG   <<KEY_ACTION-U.15>-4>                           ;
                                       00000001   00010 ;TPA$MASK
                                                      U.16:     .LONG   1                                               ;
                                            6102  00014 ;TPA$TYPE
                                                      U.20:     .WORD   24834                                           ;
                                       00000000*  00016 ;TPA$ADDR
                                                      U.21:     .LONG   <<KEY_ACTION-U.21>-4>                           ;
                                       00000002   0001A ;TPA$MASK
                                                      U.22:     .LONG   2                                               ;
                                            6103  0001E ;TPA$TYPE
                                                      U.26:     .WORD   24835                                           ;
                                       00000000*  00020 ;TPA$ADDR
                                                      U.27:     .LONG   <<KEY_ACTION-U.27>-4>                           ;
                                       00000003   00024 ;TPA$MASK
                                                      U.28:     .LONG   3                                               ;
                                            6104  00028 ;TPA$TYPE
```

```
                        U.32:   .WORD   24836                           ;
00000000* 0002A         ;TPA$ADDR
                        U.33:   .LONG   <<KEY_ACTION-U.33>-4>           ;
00000004  0002E         ;TPA$MASK
                        U.34:   .LONG   4                               ;
    6105  00032         ;TPA$TYPE
                        U.38:   .WORD   24837                           ;
00000000* 00034         ;TPA$ADDR
                        U.39:   .LONG   <<KEY_ACTION-U.39>-4>           ;
00000005  00038         ;TPA$MASK
                        U.40:   .LONG   5                               ;
    6106  0003C         ;TPA$TYPE
                        U.44:   .WORD   24838                           ;
00000000* 0003E         ;TPA$ADDR
                        U.45:   .LONG   <<KEY_ACTION-U.45>-4>           ;
00000006  00042         ;TPA$MASK
                        U.46:   .LONG   6                               ;
    6107  00046         ;TPA$TYPE
                        U.50:   .WORD   24839                           ;
00000000* 00048         ;TPA$ADDR
                        U.51:   .LONG   <<KEY_ACTION-U.51>-4>           ;
00000007  0004C         ;TPA$MASK
                        U.52:   .LONG   7                               ;
    6108  00050         ;TPA$TYPE
                        U.56:   .WORD   24840                           ;
00000000* 00052         ;TPA$ADDR
                        U.57:   .LONG   <<KEY_ACTION-U.57>-4>           ;
00000008  00056         ;TPA$MASK
                        U.58:   .LONG   8                               ;
    6109  0005A         ;TPA$TYPE
                        U.62:   .WORD   24841                           ;
00000000* 0005C         ;TPA$ADDR
                        U.63:   .LONG   <<KEY_ACTION-U.63>-4>           ;
00000009  00060         ;TPA$MASK
                        U.64:   .LONG   9                               ;
    610A  00064         ;TPA$TYPE
                        U.68:   .WORD   24842                           ;
00000000* 00066         ;TPA$ADDR
                        U.69:   .LONG   <<KEY_ACTION-U.69>-4>           ;
0000000A  0006A         ;TPA$MASK
                        U.70:   .LONG   10                              ;
    610B  0006E         ;TPA$TYPE
                        U.74:   .WORD   24843                           ;
00000000* 00070         ;TPA$ADDR
                        U.75:   .LONG   <<KEY_ACTION-U.75>-4>           ;
0000000B  00074         ;TPA$MASK
                        U.76:   .LONG   11                              ;
    610C  00078         ;TPA$TYPE
                        U.80:   .WORD   24844                           ;
00000000* 0007A         ;TPA$ADDR
                        U.81:   .LONG   <<KEY_ACTION-U.81>-4>           ;
0000000C  0007E         ;TPA$MASK
                        U.82:   .LONG   12                              ;
    610D  00082         ;TPA$TYPE
                        U.86:   .WORD   24845                           ;
00000000* 00084         ;TPA$ADDR
                        U.87:   .LONG   <<KEY_ACTION-U.87>-4>           ;
```

```
0000000E  00088 ;TPA$MASK
                U.88:   .LONG   14                                      ;
    610E  0008C ;TPA$TYPE
                U.92:   .WORD   24846                                   ;
00000000* 0008E ;TPA$ADDR
                U.93:   .LONG   <<KEY_ACTION-U.93>-4>                   ;
00000010  00092 ;TPA$MASK
                U.94:   .LONG   16                                      ;
    610F  00096 ;TPA$TYPE
                U.98:   .WORD   24847                                   ;
00000000* 00098 ;TPA$ADDR
                U.99:   .LONG   <<KEY_ACTION-U.99>-4>                   ;
00000011  0009C ;TPA$MASK
                U.100:  .LONG   17                                      ;
    6110  000A0 ;TPA$TYPE
                U.104:  .WORD   24848                                   ;
00000000* 000A2 ;TPA$ADDR
                U.105:  .LONG   <<KEY_ACTION-U.105>-4>                  ;
00000012  000A6 ;TPA$MASK
                U.106:  .LONG   18                                      ;
    6111  000AA ;TPA$TYPE
                U.110:  .WORD   24849                                   ;
00000000* 000AC ;TPA$ADDR
                U.111:  .LONG   <<KEY_ACTION-U.111>-4>                  ;
00000013  000B0 ;TPA$MASK
                U.112:  .LONG   19                                      ;
    6112  000B4 ;TPA$TYPE
                U.116:  .WORD   24850                                   ;
00000000* 000B6 ;TPA$ADDR
                U.117:  .LONG   <<KEY_ACTION-U.117>-4>                  ;
00000014  000BA ;TPA$MASK
                U.118:  .LONG   20                                      ;
    6113  000BE ;TPA$TYPE
                U.122:  .WORD   24851                                   ;
00000000* 000C0 ;TPA$ADDR
                U.123:  .LONG   <<KEY_ACTION-U.123>-4>                  ;
00000015  000C4 ;TPA$MASK
                U.124:  .LONG   21                                      ;
    6114  000C8 ;TPA$TYPE
                U.128:  .WORD   24852                                   ;
00000000* 000CA ;TPA$ADDR
                U.129:  .LONG   <<KEY_ACTION-U.129>-4>                  ;
00000016  000CE ;TPA$MASK
                U.130:  .LONG   22                                      ;
    6115  000D2 ;TPA$TYPE
                U.134:  .WORD   24853                                   ;
00000000* 000D4 ;TPA$ADDR
                U.135:  .LONG   <<KEY_ACTION-U.135>-4>                  ;
00000017  000D8 ;TPA$MASK
                U.136:  .LONG   23                                      ;
    6116  000DC ;TPA$TYPE
                U.140:  .WORD   24854                                   ;
00000000* 000DE ;TPA$ADDR
                U.141:  .LONG   <<KEY_ACTION-U.141>-4>                  ;
00000018  000E2 ;TPA$MASK
                U.142:  .LONG   24                                      ;
    6117  000E6 ;TPA$TYPE
```

```
                        U.146:  .WORD   24855                           ;
00000000* 000E8 ;TPA$ADDR
                        U.147:  .LONG   <<KEY_ACTION-U.147>-4>          ;
00000019  000EC ;TPA$MASK
                        U.148:  .LONG   25                              ;
    6118  000F0 ;TPA$TYPE
                        U.152:  .WORD   24856                           ;
00000000* 000F2 ;TPA$ADDR
                        U.153:  .LONG   <<KEY_ACTION-U.153>-4>          ;
0000001A  000F6 ;TPA$MASK
                        U.154:  .LONG   26                              ;
    6119  000FA ;TPA$TYPE
                        U.158:  .WORD   24857                           ;
00000000* 000FC ;TPA$ADDR
                        U.159:  .LONG   <<KEY_ACTION-U.159>-4>          ;
0000001B  00100 ;TPA$MASK
                        U.160:  .LONG   27                              ;
    611A  00104 ;TPA$TYPE
                        U.164:  .WORD   24858                           ;
00000000* 00106 ;TPA$ADDR
                        U.165:  .LONG   <<KEY_ACTION-U.165>-4>          ;
0000001C  0010A ;TPA$MASK
                        U.166:  .LONG   28                              ;
    611B  0010E ;TPA$TYPE
                        U.170:  .WORD   24859                           ;
00000000* 00110 ;TPA$ADDR
                        U.171:  .LONG   <<KEY_ACTION-U.171>-4>          ;
0000001D  00114 ;TPA$MASK
                        U.172:  .LONG   29                              ;
    611C  00118 ;TPA$TYPE
                        U.176:  .WORD   24860                           ;
00000000* 0011A ;TPA$ADDR
                        U.177:  .LONG   <<KEY_ACTION-U.177>-4>          ;
0000001E  0011E ;TPA$MASK
                        U.178:  .LONG   30                              ;
    611D  00122 ;TPA$TYPE
                        U.182:  .WORD   24861                           ;
00000000* 00124 ;TPA$ADDR
                        U.183:  .LONG   <<KEY_ACTION-U.183>-4>          ;
0000001F  00128 ;TPA$MASK
                        U.184:  .LONG   31                              ;
    611E  0012C ;TPA$TYPE
                        U.188:  .WORD   24862                           ;
00000000* 0012E ;TPA$ADDR
                        U.189:  .LONG   <<KEY_ACTION-U.189>-4>          ;
00000021  00132 ;TPA$MASK
                        U.190:  .LONG   33                              ;
    611F  00136 ;TPA$TYPE
                        U.194:  .WORD   24863                           ;
00000000* 00138 ;TPA$ADDR
                        U.195:  .LONG   <<KEY_ACTION-U.195>-4>          ;
00000022  0013C ;TPA$MASK
                        U.196:  .LONG   34                              ;
    6120  00140 ;TPA$TYPE
                        U.200:  .WORD   24864                           ;
00000000* 00142 ;TPA$ADDR
                        U.201:  .LONG   <<KEY_ACTION-U.201>-4>          ;
```

```
00000025  00146 ;TPA$MASK
                U.202:  .LONG   37                                      ;
    6121  0014A ;TPA$TYPE
                U.206:  .WORD   24865                                   ;
00000000* 0014C ;TPA$ADDR
                U.207:  .LONG   <<KEY_ACTION-U.207>-4>                  ;
00000026  00150 ;TPA$MASK
                U.208:  .LONG   38                                      ;
    6122  00154 ;TPA$TYPE
                U.212:  .WORD   24866                                   ;
00000000* 00156 ;TPA$ADDR
                U.213:  .LONG   <<KEY_ACTION-U.213>-4>                  ;
00000023  0015A ;TPA$MASK
                U.214:  .LONG   35                                      ;
    6123  0015E ;TPA$TYPE
                U.218:  .WORD   24867                                   ;
00000000* 00160 ;TPA$ADDR
                U.219:  .LONG   <<KEY_ACTION-U.219>-4>                  ;
00000024  00164 ;TPA$MASK
                U.220:  .LONG   36                                      ;
    6124  00168 ;TPA$TYPE
                U.224:  .WORD   24868                                   ;
00000000* 0016A ;TPA$ADDR
                U.225:  .LONG   <<KEY_ACTION-U.225>-4>                  ;
00000027  0016E ;TPA$MASK
                U.226:  .LONG   39                                      ;
    6125  00172 ;TPA$TYPE
                U.230:  .WORD   24869                                   ;
00000000* 00174 ;TPA$ADDR
                U.231:  .LONG   <<KEY_ACTION-U.231>-4>                  ;
00000028  00178 ;TPA$MASK
                U.232:  .LONG   40                                      ;
    6526  0017C ;TPA$TYPE
                U.236:  .WORD   25894                                   ;
00000000* 0017E ;TPA$ADDR
                U.237:  .LONG   <<KEY_ACTION-U.237>-4>                  ;
00000029  00182 ;TPA$MASK
                U.238:  .LONG   41                                      ;
          00186 SWALLOW_3:
                        .BLKB   0
    11F2  00186 ;TPA$TYPE
                U.240:  .WORD   4594                                    ;
    0000* 00188 ;TPA$TARGET
                U.241:  .WORD   <<SWALLOW_3-U.241>-2>                   ;
    0527  0018A ;TPA$TYPE
                U.245:  .WORD   1319                                    ;
          0018C KEY_DEFINE:
                        .BLKB   0
    11F2  0018C ;TPA$TYPE
                U.247:  .WORD   4594                                    ;
    0000* 0018E ;TPA$TARGET
                U.248:  .WORD   <<KEY_DEFINE-U.248>-2>                  ;
    6128  00190 ;TPA$TYPE
                U.252:  .WORD   24872                                   ;
00000000* 00192 ;TPA$ADDR
                U.253:  .LONG   <<KEY_FLAGS-U.253>-4>                   ;
00000004  00196 ;TPA$MASK
```

```
                        U.254:  .LONG   4                                       ;
    7129  0019A ;TPA$TYPE
                        U.258:  .WORD   28969                                   ;
00000000* 0019C ;TPA$ADDR
                        U.259:  .LONG   <<KEY_FLAGS-U.259>-4>                   ;
00000008  001A0 ;TPA$MASK
                        U.260:  .LONG   8                                       ;
    0000* 001A4 ;TPA$TARGET
                        U.262:  .WORD   <<U.261-U.262>-2>                       ;
    712A  001A6 ;TPA$TYPE
                        U.266:  .WORD   28970                                   ;
00000000* 001A8 ;TPA$ADDR
                        U.267:  .LONG   <<KEY_FLAGS-U.267>-4>                   ;
00000010  001AC ;TPA$MASK
                        U.268:  .LONG   16                                      ;
    0000* 001B0 ;TPA$TARGET
                        U.269:  .WORD   <<U.261-U.269>-2>                       ;
    712B  001B2 ;TPA$TYPE
                        U.273:  .WORD   28971                                   ;
00000000* 001B4 ;TPA$ADDR
                        U.274:  .LONG   <<KEY_FLAGS-U.274>-4>                   ;
00000001  001B8 ;TPA$MASK
                        U.275:  .LONG   1                                       ;
    0000* 001BC ;TPA$TARGET
                        U.276:  .WORD   <<U.261-U.276>-2>                       ;
    712C  001BE ;TPA$TYPE
                        U.280:  .WORD   28972                                   ;
00000000* 001C0 ;TPA$ADDR
                        U.281:  .LONG   <<KEY_FLAGS-U.281>-4>                   ;
00000002  001C4 ;TPA$MASK
                        U.282:  .LONG   2                                       ;
    0000* 001C8 ;TPA$TARGET
                        U.283:  .WORD   <<U.261-U.283>-2>                       ;
    812D  001CA ;TPA$TYPE
                        U.287:  .WORD   -32467                                  ;
00000000V 001CC ;TPA$ACTION
                        U.288:  .LONG   <<SET_RUBOUT-U.288>-4>                  ;
    15F7  001D0 ;TPA$TYPE
                        U.289:  .WORD   5623                                    ;
    FFFE  001D2 ;TPA$TARGET
                        U.290:  .WORD   -2                                      ;
          001D4 CHECK_END:
                        .BLKB   0
    11F2  001D4 ;TPA$TYPE
                        U.292:  .WORD   4594                                    ;
    0000* 001D6 ;TPA$TARGET
                        U.293:  .WORD   <<CHECK_END-U.293>-2>                   ;
    102C  001D8 ;TPA$TYPE
                        U.294:  .WORD   4140                                    ;
    0000* 001DA ;TPA$TARGET
                        U.295:  .WORD   <<KEY_DEFINE-U.295>-2>                  ;
    912E  001DC ;TPA$TYPE
                        U.299:  .WORD   -28370                                  ;
00000000V 001DE ;TPA$ACTION
                        U.300:  .LONG   <<SET_DEFINITION-U.300>-4>              ;
    0000* 001E2 ;TPA$TARGET
                        U.301:  .WORD   <<KEY_DEFINE-U.301>-2>                  ;
```

```
                95F7  001E4 ;TPA$TYPE
                      U.302:  .WORD   -27145                                  ;
          00000000V 001E6 ;TPA$ACTION
                      U.303:  .LONG   <<SET_DEFINITION-U.303>-4>              ;
                FFFF  001EA ;TPA$TARGET
                      U.304:  .WORD   -1                                      ;
                      001EC ;GET_TEXT
                      U.26T:  .BLKB   0
                11F2  001EC ;TPA$TYPE
                      U.306:  .WORD   4594                                    ;
                0000* 001EE ;TPA$TARGET
                      U.307:  .WORD   <<U.261-U.307>-2>                       ;
                042C  001F0 ;TPA$TYPE
                      U.308:  .WORD   1068                                    ;
                      001F2 SWALLOW_4:
                              .BLKB   0
                11F2  001F2 ;TPA$TYPE
                      U.309:  .WORD   4594                                    ;
                0000* 001F4 ;TPA$TARGET
                      U.310:  .WORD   <<SWALLOW_4-U.310>-2>                   ;
                5DF8  001F6 ;TPA$TYPE
                      U.311:  .WORD   24056                                   ;
                0000* 001F8 ;TPA$SUBEXP
                      U.313:  .WORD   <<U.312-U.313>-2>                       ;
          00000000* 001FA ;TPA$ADDR
                      U.314:  .LONG   <<KEY_STRING-U.314>-4>                  ;
                0000* 001FE ;TPA$TARGET
                      U.315:  .WORD   <<CHECK_END-U.315>-2>                   ;
                      00200 ;GET_STRING
                      U.312:  .BLKB   0
                19F8  00200 ;TPA$TYPE
                      U.316:  .WORD   6648                                    ;
                0000* 00202 ;TPA$SUBEXP
                      U.318:  .WORD   <<U.317-U.318>-2>                       ;
                0000* 00204 ;TPA$TARGET
                      U.319:  .WORD   <<U.312-U.319>-2>                       ;
                15F6  00206 ;TPA$TYPE
                      U.320:  .WORD   5622                                    ;
                FFFF  00208 ;TPA$TARGET
                      U.321:  .WORD   -1                                      ;
                      0020A ;CHECK_DELIM
                      U.317:  .BLKB   0
                102C  0020A ;TPA$TYPE
                      U.322:  .WORD   4140                                    ;
                FFFE  0020C ;TPA$TARGET
                      U.323:  .WORD   -2                                      ;
                1020  0020E ;TPA$TYPE
                      U.324:  .WORD   4128                                    ;
                FFFE  00210 ;TPA$TARGET
                      U.325:  .WORD   -2                                      ;
                11F7  00212 ;TPA$TYPE
                      U.326:  .WORD   4599                                    ;
                FFFE  00214 ;TPA$TARGET
                      U.327:  .WORD   -2                                      ;
                15ED  00216 ;TPA$TYPE
                      U.328:  .WORD   5613                                    ;
                FFFF  00218 ;TPA$TARGET
```

```
                        U.329:  .WORD   -1                                      ;

                                .PSECT  _LIB$KEY0$,NOWRT,  SHR,  PIC,1

                00000 KEYDEF_KEY::
                                .BLKB   0
                00000 ;TPA$KEY0
                        U.1:    .BLKB   0
          0000* 00000 ;TPA$KEY
                        U.5:    .WORD   <U.4-U.1>                               ;
          0000* 00002 ;TPA$KEY
                        U.12:   .WORD   <U.11-U.1>                              ;
          0000* 00004 ;TPA$KEY
                        U.18:   .WORD   <U.17-U.1>                              ;
          0000* 00006 ;TPA$KEY
                        U.24:   .WORD   <U.23-U.1>                              ;
          0000* 00008 ;TPA$KEY
                        U.30:   .WORD   <U.29-U.1>                              ;
          0000* 0000A ;TPA$KEY
                        U.36:   .WORD   <U.35-U.1>                              ;
          0000* 0000C ;TPA$KEY
                        U.42:   .WORD   <U.41-U.1>                              ;
          0000* 0000E ;TPA$KEY
                        U.48:   .WORD   <U.47-U.1>                              ;
          0000* 00010 ;TPA$KEY
                        U.54:   .WORD   <U.53-U.1>                              ;
          0000* 00012 ;TPA$KEY
                        U.60:   .WORD   <U.59-U.1>                              ;
          0000* 00014 ;TPA$KEY
                        U.66:   .WORD   <U.65-U.1>                              ;
          0000* 00016 ;TPA$KEY
                        U.72:   .WORD   <U.71-U.1>                              ;
          0000* 00018 ;TPA$KEY
                        U.78:   .WORD   <U.77-U.1>                              ;
          0000* 0001A ;TPA$KEY
                        U.84:   .WORD   <U.83-U.1>                              ;
          0000* 0001C ;TPA$KEY
                        U.90:   .WORD   <U.89-U.1>                              ;
          0000* 0001E ;TPA$KEY
                        U.96:   .WORD   <U.95-U.1>                              ;
          0000* 00020 ;TPA$KEY
                        U.102:  .WORD   <U.101-U.1>                             ;
          0000* 00022 ;TPA$KEY
                        U.108:  .WORD   <U.107-U.1>                             ;
          0000* 00024 ;TPA$KEY
                        U.114:  .WORD   <U.113-U.1>                             ;
          0000* 00026 ;TPA$KEY
                        U.120:  .WORD   <U.119-U.1>                             ;
          0000* 00028 ;TPA$KEY
                        U.126:  .WORD   <U.125-U.1>                             ;
          0000* 0002A ;TPA$KEY
                        U.132:  .WORD   <U.131-U.1>                             ;
          0000* 0002C ;TPA$KEY
                        U.138:  .WORD   <U.137-U.1>                             ;
          0000* 0002E ;TPA$KEY
                        U.144:  .WORD   <U.143-U.1>                             ;
          0000* 00030 ;TPA$KEY
```

```
                        U.150:  .WORD   <U.149-U.1>                     ;
0000* 00032 ;TPA$KEY
                        U.156:  .WORD   <U.155-U.1>                     ;
0000* 00034 ;TPA$KEY
                        U.162:  .WORD   <U.161-U.1>                     ;
0000* 00036 ;TPA$KEY
                        U.168:  .WORD   <U.167-U.1>                     ;
0000* 00038 ;TPA$KEY
                        U.174:  .WORD   <U.173-U.1>                     ;
0000* 0003A ;TPA$KEY
                        U.180:  .WORD   <U.179-U.1>                     ;
0000* 0003C ;TPA$KEY
                        U.186:  .WORD   <U.185-U.1>                     ;
0000* 0003E ;TPA$KEY
                        U.192:  .WORD   <U.191-U.1>                     ;
0000* 00040 ;TPA$KEY
                        U.198:  .WORD   <U.197-U.1>                     ;
0000* 00042 ;TPA$KEY
                        U.204:  .WORD   <U.203-U.1>                     ;
0000* 00044 ;TPA$KEY
                        U.210:  .WORD   <U.209-U.1>                     ;
0000* 00046 ;TPA$KEY
                        U.216:  .WORD   <U.215-U.1>                     ;
0000* 00048 ;TPA$KEY
                        U.222:  .WORD   <U.221-U.1>                     ;
0000* 0004A ;TPA$KEY
                        U.228:  .WORD   <U.227-U.1>                     ;
0000* 0004C ;TPA$KEY
                        U.234:  .WORD   <U.233-U.1>                     ;
0000* 0004E ;TPA$KEY
                        U.243:  .WORD   <U.242-U.1>                     ;
0000* 00050 ;TPA$KEY
                        U.250:  .WORD   <U.249-U.1>                     ;
0000* 00052 ;TPA$KEY
                        U.256:  .WORD   <U.255-U.1>                     ;
0000* 00054 ;TPA$KEY
                        U.264:  .WORD   <U.263-U.1>                     ;
0000* 00056 ;TPA$KEY
                        U.271:  .WORD   <U.270-U.1>                     ;
0000* 00058 ;TPA$KEY
                        U.278:  .WORD   <U.277-U.1>                     ;
0000* 0005A ;TPA$KEY
                        U.285:  .WORD   <U.284-U.1>                     ;
0000* 0005C ;TPA$KEY
                        U.297:  .WORD   <U.296-U.1>                     ;

                                .PSECT  AED_COMMON,NOEXE,  OVR,0

                00000 AED_L_FLAGS:
                                .BLKB   4
                00004 AED_B_OPTIONS:
                                .BLKB   1
                00005           .BLKB   3
                00008 AED_L_OBJTYP:
                                .BLKB   4
                0000C AED_Q_OBJNAM:
                                .BLKB   8
```

```
00014 AED_L_WORSTERR:
                .BLKB   4
00018 AED_L_PAGEWIDTH:
                .BLKB   4
0001C AED_L_PAGESIZE:
                .BLKB   4
00020 AED_B_COLUMN:
                .BLKB   1
00021           .BLKB   3
00024 AED_B_LINE:
                .BLKB   1
00025           .BLKB   3
00028 AED_B_SAVE_COL:
                .BLKB   1
00029           .BLKB   3
0002C AED_B_SAVE_LIN:
                .BLKB   1
0002D           .BLKB   3
00030 AED_Q_LINETABLE:
                .BLKB   12
0003C AED_L_CURACE:
                .BLKB   4
00040 AED_L_FIRSTLINE:
                .BLKB   4
00044 AED_L_LASTLINE:
                .BLKB   4
00048 AED_L_BEGINLINE:
                .BLKB   4
0004C AED_W_INPUTLEN:
                .BLKB   2
0004E           .BLKB   2
00050 AED_Q_DEL_ACE:
                .BLKB   8
00058 AED_Q_DEL_LINE:
                .BLKB   8
00060 AED_Q_DEL_WORD:
                .BLKB   8
00068 AED_B_DEL_CHAR:
                .BLKB   1
00069           .BLKB   3
0006C AED_A_ACLBUFFER:
                .BLKB   4
00070 AED_Q_OUTLINE:
                .BLKB   8
00078 AED_W_OBJCHAN:
                .BLKB   2
0007A           .BLKB   2
0007C AED_W_TERMIN:
                .BLKB   2
0007E           .BLKB   2
00080 AED_W_TERMOUT:
                .BLKB   2
00082           .BLKB   2
00084 AED_W_IOSB:
                .BLKB   8
0008C AED_L_STATUS:
                .BLKB   4
```

```
00090 AED_B_FIELD:
                .BLKB   1
00091           .BLKB   3
00094 AED_W_FIELDBEG:
                .BLKB   2
00096           .BLKB   2
00098 AED_W_FIELDEND:
                .BLKB   2
0009A           .BLKB   2
0009C AED_B_ITEM:
                .BLKB   1
0009D           .BLKB   3
000A0 AED_W_ITEMBEG:
                .BLKB   2
000A2           .BLKB   2
000A4 AED_W_ITEMEND:
                .BLKB   2
000A6           .BLKB   2
000A8 AED_B_ACETYPE:
                .BLKB   1
000A9           .BLKB   3
000AC AED_W_JOURNAL:
                .BLKB   2
000AE           .BLKB   2
000B0 AED_T_CURLINE:
                .BLKB   532
002C4 AED_W_TOTALSIZE:
                .BLKB   2
002C6           .BLKB   2
002C8 JOURNAL_FAB:
                .BLKB   80
00318 JOURNAL_NAM:
                .BLKB   96
00378 JOURNAL_RAB:
                .BLKB   68
003BC JOURNAL_XABPRO:
                .BLKB   88
00414 JOURNAL_BUFFER:
                .BLKB   10
0041E           .BLKB   2
00420 JOURNAL_INDEX:
                .BLKB   4
00424 RECOVER_FAB:
                .BLKB   80
00474 RECOVER_NAM:
                .BLKB   96
004D4 RECOVER_RAB:
                .BLKB   68
00518 RECOVER_BUFFER:
                .BLKB   10
00522           .BLKB   2
00524 RECOVER_INDEX:
                .BLKB   4

                .PSECT  $PLIT$,NOWRT,NOEXE,2

00  00  3A  54  49  4E  49  24  54  49  44  45  4C  43  41  00000 P.AAA:  .ASCII  \ACLEDIT$INIT:\<0><0><0>                    ;
```

```
00  0000F                                                                   ;

                        .PSECT  $OWN$,NOEXE,2

    00000 KEY_BLOCK:
                        .BLKB   11
    0000B               .BLKB   1
    0000C KEY_STRING:
                        .BLKB   8

                KEY_ACTION=         KEY_BLOCK+8
                KEY_FLAGS=          KEY_BLOCK+10
                        .EXTRN  CLI$GET_VALUE, CLI$PRESENT
                        .EXTRN  LIB$FREE_VM, LIB$GET_VM
                        .EXTRN  LIB$TPARSE, SCR$DOWN_SCROLL
                        .EXTRN  SCR$ERASE_LINE, SCR$ERASE_PAGE
                        .EXTRN  SCR$SET_CURSOR, SCR$SET_SCROLL
                        .EXTRN  SCR$UP_SCROLL, AED$_OBJLOCKED
                        .EXTRN  AED$_BADKEEP, AED$_LOCATERR
                        .EXTRN  AED$_INIREADERR
                        .EXTRN  AED$_JOUWRITERR
                        .EXTRN  AED$_JOUOPENOUT
                        .EXTRN  AED$_JOUCLOSOUT
                        .EXTRN  AED$_RECREADERR
                        .EXTRN  AED$_RECOPENIN, AED$_RECLOSEIN
                        .EXTRN  AED$_BADUIC, AED$_BADGRPMEM
                        .EXTRN  AED$_SYNTAX, AED$_BADTYPE
                        .EXTRN  AED$_NOITEMSEL, AED$_MUSTENTER
                        .EXTRN  AED$_INIOPENIN, AED$_INICLOSIN
                        .EXTRN  AED$_DEFSYNTAX, AED$_NODELETE
                        .EXTRN  AED$_NOMODIFY, AED$_NOHIDDEN
                        .EXTRN  AED$_DUPLICATE, AED$_NOCOMBINE
                        .EXTRN  AED$_NODEFAULT, AED$_NOCTRLCHAR
                        .EXTRN  AED$_NOTFOUND, AED$_CONTROL_C
                        .EXTRN  AED$_ACLUPDATED
                        .EXTRN  AED$_NOCHANGE, AED_FILERROR
                        .EXTRN  AED_PUTOUTPUT, AED_SET_CURSOR
                        .EXTRN  KEY_TABLE, SYS$OPEN
                        .EXTRN  SYS$CONNECT, SYS$GET
                        .EXTRN  LIB$SIGNAL

                        .PSECT  $CODE$,NOWRT,2

                                    OFFC 00000      .ENTRY  AED_GETKEYINI, Save R2,R3,R4,R5,R6,R7,R8,-  ; 0645
                                                            R9,R10,R11
                            5B 00000000G   00  9E 00002 MOVAB   LIB$SIGNAL, R11                        ;
                            5A 00000000G   00  9E 00009 MOVAB   SCR$ERASE_PAGE, R10                    ;
                            59 00000000G   8F  D0 00010 MOVL    #AED$_INIOPENIN, R9                    ;
                            58 00000000G   8F  D0 00017 MOVL    #AED$_DEFSYNTAX, R8                    ;
                            57 00000000G   00  9E 0001E MOVAB   SCR$SET_CURSOR, R7                     ;
                            56      0000'  CF  9E 00025 MOVAB   AED_L_WORSTERR, R6                    ;
                            5E       FAE8  CE  9E 0002A MOVAB   -1304(SP), SP                         ;
0050    8F          00          6E         00  2C 0002F MOVC5   #0, (SP), #0, #80, $RMS_PTR            ; 0704
                                        B0     AD  00036                                               ;
                        B0  AD      5003   8F  B0 00038 MOVW    #20483, $RMS_PTR                       ;
                        B4  AD        40   8F  9A 0003E MOVZBL  #64, $RMS_PTR+4                        ;
                        C6  AD             02  90 00043 MOVB    #2, $RMS_PTR+22                        ;
```

```
                                                 CD    AD  94 00047          CLRB    $RMS_PTR+29                                    ;
                                           CF    AD      02 90 0004A          MOVB    #2, $RMS_PTR+31                                ;
                                           D8    AD  FF0C CD 9E 0004E          MOVAB   KEYINI_NAM, $RMS_PTR+40                        ;
                                           DC    AD  0000' CF 9E 00054         MOVAB   P.AAA, $RMS_PTR+44                             ;
                                           E4    AD      0D 90 0005A          MOVB    #13, $RMS_PTR+52                               ;
0060    8F          00                     6E          00 2C 0005E          MOVC5   #0, (SP), #0, #96, $RMS_PTR                    ; 0709
                                                  FF0C CD   00065                                                                   ;
                                     FF0C  CD    6002  8F B0 00068          MOVW    #24578, $RMS_PTR                               ;
                                     FF0E  CD          01 8E 0006F          MNEGB   #1, $RMS_PTR+2                                 ;
                                     FF10  CD    0224  CE 9E 00074          MOVAB   KEYINI_RES_NAM, $RMS_PTR+4                     ;
                                     FF16  CD          01 8E 0007B          MNEGB   #1, $RMS_PTR+10                                ;
                                     FF18  CD    FE0C  CD 9E 00080          MOVAB   KEYINI_EXP_NAM, $RMS_PTR+12                    ;
0044    8F          00                     6E          00 2C 00087          MOVC5   #0, (SP), #0, #68, $RMS_PTR                    ; 0712
                                                  FF6C CD   0008E                                                                   ;
                                     FF6C  CD    4401  8F B0 00091          MOVW    #17409, $RMS_PTR                               ;
                                           8A    AD      94 00098          CLRB    $RMS_PTR+30                                    ;
                                           A8    AD      B0 AD 9E 0009B    MOVAB   KEYINI_FAB, $RMS_PTR+60                        ;
                                           B0    AD      9F 000A0          PUSHAB  KEYINI_FAB                                     ; 0720
                                00000000G  00              01 FB 000A3          CALLS   #1, SYS$OPEN                           ;
                                           25              50 E8 000A6          BLBS    R0, 2$                                 ;
                                00184C4    8F      B8  AD  D1 000AD          CMPL    KEYINI_FAB+8, #99524                   ; 0723
                                                       18 13 000B5          BEQL    1$                                     ;
                                           7E      B8  AD  7D 000B7          MOVQ    KEYINI_FAB+8, -(SP)                    ; 0724
                                           B0      AD  9F 000BB          PUSHAB  KEYINI_FAB                                     ;
                                                       59 DD 000BE          PUSHL   R9                                             ;
                                     0000G CF                04 FB 000C0          CALLS   #4, AED_FILERROR                       ;
                                00018292   8F      B8  AD  D1 000C5          CMPL    KEYINI_FAB+8, #98962                   ; 0726
                                                       54 12 000CD          BNEQ    5$                                     ;
                                                    016D 31 000CF 1$:       BRW     23$                                    ;
                                                  FF6C  CD  9F 000D2 2$:    PUSHAB  KEYINI_RAB                             ; 0729
                                00000000G  00             01 FB 000D6          CALLS   #1, SYS$CONNECT                        ;
                                           0C             50 E8 000DD          BLBS    R0, 3$                                 ;
                                           7E      FF74  CD  7D 000E0          MOVQ    KEYINI_RAB+8, -(SP)                    ; 0732
                                                   B0      AD  9F 000E5          PUSHAB  KEYINI_FAB                             ;
                                                           59 DD 000E8          PUSHL   R9                                     ;
                                                           32 11 000EA          BRB     4$                                     ;
                                           90    AD      24  AE 9E 000EC 3$:   MOVAB   DEFINE_LINE, KEYINI_RAB+36             ; 0743
                                           8C    AD      0200 8F B0 000F1          MOVW    #512, KEYINI_RAB+32                    ; 0744
                                                 FF6C      CD  9F 000F7          PUSHAB  KEYINI_RAB                             ; 0745
                                00000000G  00             01 FB 000FB          CALLS   #1, SYS$GET                            ;
                                           22             50 E8 00102          BLBS    R0, 6$                                 ;
                                0001827A   8F      FF74  CD  D1 00105          CMPL    KEYINI_RAB+8, #98938                   ; 0748
                                                         BF 13 0010E          BEQL    1$                                     ;
                                           7E      FF74  CD  7D 00110          MOVQ    KEYINI_RAB+8, -(SP)                    ; 0749
                                                   B0      AD  9F 00115          PUSHAB  KEYINI_FAB                             ;
                                                00000000G  8F  DD 00118          PUSHL   #AED$_INIREADERR                       ;
                                           0000G CF                04 FB 0011E 4$:   CALLS   #4, AED_FILERROR               ;
                                           50                      66 D0 00123 5$:   MOVL    AED_L_WORSTERR, R0             ; 0751
                                                                   04 00126          RET                                    ;
                                                 0000'     CF      94 00127 6$:      CLRB    KEY_ACTION                     ; 0753
                                                 0000'     CF      94 0012B          CLRB    KEY_FLAGS                      ; 0754
                                                 0000'     CF      B4 0012F          CLRW    KEY_STRING                     ; 0755
                                           21              24      AE 91 00133       CMPB    DEFINE_LINE, #33               ; 0757
                                                                   B3 13 00137       BEQL    3$                             ;
                                                                   52 D4 00139       CLRL    LINE_INDEX                     ; 0760
52          8E  AD                         10                      00 ED 0013B 7$:   CMPZV   #0, #16, KEYINI_RAB+34, LINE_INDEX ; 0761
                                                                   03 14 00141       BGTR    8$                             ;
```

```
                                                0083  31 00143          BRW     17$                                                     ;
                                          3C      24 AE42  91 00146 8$:  CMPB    DEFINE_LINE[LINE_INDEX], #60                            ; 0764
                                                62  12 0014B          BNEQ    15$                                                     ;
                                                52  D6 0014D 9$:       INCL    LINE_INDEX                                              ; 0769
                                          3E      24 AE42  91 0014F      CMPB    DEFINE_LINE[LINE_INDEX], #62                            ; 0770
                                                59  13 00154          BEQL    15$                                                     ;
                                                53  D4 00156          CLRL    R3                                                      ; 0771
        52      8E      AD                10      00  ED 00158          CMPZV   #0, #16, KEYINI_RAB+34, LINE_INDEX                      ;
                                                4C  14 0015E          BGTR    14$                                                     ;
                                                53  D6 00160          INCL    R3                                                      ;
                        0E      EC      A6        03  E1 00162          BBC     #3, AED_L_FLAGS, 10$                                    ; 0775
                                                01  DD 00167          PUSHL   #1                                                      ;
                                                15  DD 00169          PUSHL   #21                                                     ;
                                          6A        02  FB 0016B          CALLS   #2, SCR$ERASE_PAGE                                      ;
                                                01  DD 0016E          PUSHL   #1                                                      ;
                                                15  DD 00170          PUSHL   #21                                                     ;
                                          67        02  FB 00172          CALLS   #2, SCR$SET_CURSOR                                      ;
                                                24  AE  9F 00175 10$:     PUSHAB  DEFINE_LINE                                             ;
                                          7E      8E  AD  3C 00178          MOVZWL  KEYINI_RAB+34, -(SP)                                    ;
                                                02  DD 0017C          PUSHL   #2                                                      ;
                                                58  DD 0017E          PUSHL   R8                                                      ;
                                          6B        04  FB 00180          CALLS   #4, LIB$SIGNAL                                          ;
                        0B      EC      A6        03  E1 00183          BBC     #3, AED_L_FLAGS, 11$                                    ;
                                          7E  0C  A6  9A 00188          MOVZBL  AED_B_COLUMN, -(SP)                                     ;
                                          7E  10  A6  9A 0018C          MOVZBL  AED_B_LINE, -(SP)                                       ;
                                          67        02  FB 00190          CALLS   #2, SCR$SET_CURSOR                                      ;
                                          00000000* 8F  D5 00193 11$:     TSTL    #<AED$_DEFSYNTAX&7>                                     ;
                                                03  12 00199          BNEQ    13$                                                     ;
                                                009D  31 0019B 12$:       BRW     22$                                                     ;
00000000*       8F      66                03      00  ED 0019E 13$:     CMPZV   #0, #3, AED_L_WORSTERR, #<AED$_DEFSYNTAX&7>             ;
                                                F2  18 001A7          BGEQ    12$                                                     ;
                                                008C  31 001A9          BRW     21$                                                     ;
                                          9E        53  E9 001AC 14$:     BLBC    R3, 9$                                                  ; 0779
                                    61    8F      24 AE42  91 001AF 15$:     CMPB    DEFINE_LINE[LINE_INDEX], #97                            ; 0781
                                                0D  1F 001B5          BLSSU   16$                                                     ;
                                    7A    8F      24 AE42  91 001B7          CMPB    DEFINE_LINE[LINE_INDEX], #122                           ; 0782
                                                05  1A 001BD          BGTRU   16$                                                     ;
                                    24  AE42              20  82 001BF          SUBB2   #32, DEFINE_LINE[LINE_INDEX]                    ; 0783
                                                52  D6 001C4 16$:       INCL    LINE_INDEX                                              ; 0784
                                                FF72  31 001C6          BRW     7$                                                      ; 0761
                                          6E        08  D0 001C9 17$:     MOVL    #8, TPARSE_BLOCK                                        ; 0786
                                    04    AE        03  88 001CC          BISB2   #3, TPARSE_BLOCK+4                                      ; 0788
                                    08    AE  8E    AD  3C 001D0          MOVZWL  KEYINI_RAB+34, TPARSE_BLOCK+8                           ; 0789
                                    0C    AE  24    AE  9E 001D5          MOVAB   DEFINE_LINE, TPARSE_BLOCK+12                            ; 0790
                                          0000'     CF  9F 001DA          PUSHAB  KEYDEF_KEY                                              ; 0792
                                          0000'     CF  9F 001DE          PUSHAB  KEYDEF_STATE                                            ;
                                          08        AE  9F 001E2          PUSHAB  TPARSE_BLOCK                                            ;
                                00000000G 00        03  FB 001E5          CALLS   #3, LIB$TPARSE                                          ;
                                          54        50  D0 001EC          MOVL    R0, LOCAL_STATUS                                        ;
                                          03        54  E9 001EF          BLBC    LOCAL_STATUS, 18$                                       ; 0793
                                                FEF7  31 001F2          BRW     3$                                                      ;
                        0E      EC      A6        03  E1 001F5 18$:     BBC     #3, AED_L_FLAGS, 19$                                    ; 0797
                                                01  DD 001FA          PUSHL   #1                                                      ;
                                                15  DD 001FC          PUSHL   #21                                                     ;
                                          6A        02  FB 001FE          CALLS   #2, SCR$ERASE_PAGE                                      ;
                                                01  DD 00201          PUSHL   #1                                                      ;
                                                15  DD 00203          PUSHL   #21                                                     ;
```

```
                                    67              02  FB 00205                CALLS   #2, SCR$SET_CURSOR                      ;
                                          0C        AE  DD 00208 19$:           PUSHL   TPARSE_BLOCK+12                         ;
                                          0C        AE  DD 0020B                PUSHL   TPARSE_BLOCK+8                          ;
                                          02        DD  0020E                   PUSHL   #2                                      ;
                                          58        DD  00210                   PUSHL   R8                                      ;
                                    6B            04  FB 00212                CALLS   #4, LIB$SIGNAL                          ;
                          0B        EC    A6      03  E1 00215                BBC     #3, AED_L_FLAGS, 20$                    ;
                                    7E    0C      A6  9A 00219                MOVZBL  AED_B_COLUMN, -(SP)                     ;
                                    7E    10      A6  9A 0021E                MOVZBL  AED_B_LINE, -(SP)                       ;
                                    67            02  FB 00222                CALLS   #2, SCR$SET_CURSOR                      ;
                                       00000000*  8F  D5 00225 20$:           TSTL    #<AED$_DEFSYNTAX&7>                     ;
                                                  0E  13 0022B                BEQL    22$                                     ;
00000000*  8F           66          03              00  ED 0022D                CMPZV   #0, #3, AED_L_WORSTERR, #<AED$_DEFSYNTAX&7> ;
                                                   03  18 00236               BGEQ    22$                                     ;
                                    66            58  D0 00238 21$:           MOVL    R8, AED_L_WORSTERR                      ;
                                    50            58  D0 0023B 22$:           MOVL    R8, R0                                  ; 0798
                                                      04 0023E                RET                                             ;
                                    50            01  D0 0023F 23$:           MOVL    #1, R0                                  ; 0803
                                                      04 00242                RET                                             ; 0805

; Routine Size:  579 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  357          0806  1 ROUTINE SET_RUBOUT =
;  358          0807  1
;  359          0808  1 !++
;  360          0809  1 !
;  361          0810  1 ! FUNCTIONAL DESCRIPTION:
;  362          0811  1 !
;  363          0812  1 !       This routine sets up the string descriptor to point to a single
;  364          0813  1 !       rubout character.
;  365          0814  1 !
;  366          0815  1 ! CALLING SEQUENCE:
;  367          0816  1 !       SET_RUBOUT ()
;  368          0817  1 !
;  369          0818  1 ! INPUT PARAMETERS:
;  370          0819  1 !       none
;  371          0820  1 !
;  372          0821  1 ! IMPLICIT INPUTS:
;  373          0822  1 !       none
;  374          0823  1 !
;  375          0824  1 ! OUTPUT PARAMETERS:
;  376          0825  1 !       none
;  377          0826  1 !
;  378          0827  1 ! IMPLICIT OUTPUTS:
;  379          0828  1 !       KEY_STRING: descriptor to action defining string
;  380          0829  1 !
;  381          0830  1 ! ROUTINE VALUE:
;  382          0831  1 !       1
;  383          0832  1 !
;  384          0833  1 ! SIDE EFFECTS:
;  385          0834  1 !       none
;  386          0835  1 !
;  387          0836  1 !--
;  388          0837  1
;  389          0838  2 BEGIN
;  390          0839  2
;  391          0840  2 KEY_STRING[DSC$W_LENGTH] = 1;
;  392          0841  2 KEY_STRING[DSC$A_POINTER] = UPLIT BYTE (%CHAR (%X'7F'));
;  393          0842  2
;  394          0843  2 RETURN 1;
;  395          0844  2
;  396          0845  1 END;                                    ! End of routine SET_RUBOUT


                                                .PSECT  $PLIT$,NOWRT,NOEXE,2
                                7F  00010 P.AAB:.ASCII  <127>                                   ;


                                                .PSECT  $CODE$,NOWRT,2

                                0000 00000 SET_RUBOUT:
                                                .WORD   Save nothing                            ; 0806
                    0000'  CF       01  B0 00002        MOVW    #1, KEY_STRING                  ; 0840
                    0000'  CF 0000' CF  9E 00007        MOVAB   P.AAB, KEY_STRING+4             ; 0841
                           50       01  D0 0000E        MOVL    #1, R0                          ; 0843
                                        04 00011        RET                                     ; 0845
```

```
; Routine Size:  18 bytes,    Routine Base:  $CODE$ + 0243
```

```
;  398          0846  1 ROUTINE SET_DEFINITION =
;  399          0847  1
;  400          0848  1 !++
;  401          0849  1 !
;  402          0850  1 ! FUNCTIONAL DESCRIPTION:
;  403          0851  1 !
;  404          0852  1 !       This routine replaces a default definition with one from the
;  405          0853  1 !       action definition file.
;  406          0854  1 !
;  407          0855  1 ! CALLING SEQUENCE:
;  408          0856  1 !       SET_DEFINITION ()
;  409          0857  1 !
;  410          0858  1 ! INPUT PARAMETERS:
;  411          0859  1 !       none
;  412          0860  1 !
;  413          0861  1 ! IMPLICIT INPUTS:
;  414          0862  1 !       KEY_ACTION: ACL editor action code
;  415          0863  1 !       KEY_FLAGS: flags associated with the key definition
;  416          0864  1 !       KEY_STRING: descriptor of the string that defines a key
;  417          0865  1 !
;  418          0866  1 ! OUTPUT PARAMETERS:
;  419          0867  1 !       none
;  420          0868  1 !
;  421          0869  1 ! IMPLICIT OUTPUTS:
;  422          0870  1 !       none
;  423          0871  1 !
;  424          0872  1 ! ROUTINE VALUE:
;  425          0873  1 !       1
;  426          0874  1 !
;  427          0875  1 ! SIDE EFFECTS:
;  428          0876  1 !       The definition table is updated to reflect the new key definition.
;  429          0877  1 !
;  430          0878  1 !--
;  431          0879  1
;  432          0880  2 BEGIN
;  433          0881  2
;  434          0882  2 LITERAL
;  435          0883  2         CHAR_CSI        = %X'9B',               ! C1 CSI character
;  436          0884  2         CHAR_CSI_1      = %X'1B',               ! C0 CSI
;  437          0885  2         CHAR_CSI_2      = %X'5B',               !    equivalent
;  438          0886  2         CHAR_SS3        = %X'8F',               ! C1 SS3 character
;  439          0887  2         CHAR_SS3_1      = %X'1B',               ! C0 SS3
;  440          0888  2         CHAR_SS3_2      = %X'4F';               !    equivalent
;  441          0889  2
;  442          0890  2 LOCAL
;  443          0891  2         LOCAL_STATUS,                           ! Local error status
;  444          0892  2         NEW_KEY         : REF $BBLOCK,          ! Address of new definition storage
;  445          0893  2         NEXT_DEF        : REF $BBLOCK,          ! Address of next key definition
;  446          0894  2         KEY_INSERTED,                           ! Flag to indicate key inserted
;  447          0895  2         TERM_OFFSET;                            ! Size of overhead sequence
;  448          0896  2
;  449          0897  2 ! Check for angle bracket delimiters.  If present, there must be a matched pair.
;  450          0898  2
;  451          0899  2 IF .KEY_STRING[DSC$W_LENGTH] GTR 1
;  452          0900  2 THEN
;  453          0901  3     BEGIN
;  454          0902  3     IF .VECTOR[.KEY_STRING[DSC$A_POINTER], 0; ,BYTE] EQL '<'
```

```
;  455          0903  3      THEN
;  456          0904  4          BEGIN
;  457          0905  4          KEY_STRING[DSC$A_POINTER] = .KEY_STRING[DSC$A_POINTER] + 1;
;  458          0906  4          KEY_STRING[DSC$W_LENGTH] = .KEY_STRING[DSC$W_LENGTH] - 2;
;  459          0907  4          IF .VECTOR[.KEY_STRING[DSC$A_POINTER], .KEY_STRING[DSC$W_LENGTH]; ,BYTE] NEQ '>'
;  460          0908  4          THEN RETURN 0;
;  461          0909  3          END;
;  462          0910  2      END;
;  463          0911  2
;  464          0912  2  ! Check for conflicting type definitions.
;  465          0913  2
;  466          0914  3  IF (.KEY_BLOCK[KEY_V_CTRLCHAR] AND .KEY_BLOCK[KEY_V_ESCSEQ])
;  467          0915  3  OR (.KEY_BLOCK[KEY_V_CTRLCHAR] AND .KEY_STRING[DSC$W_LENGTH] NEQ 1)
;  468          0916  2  THEN RETURN 0;
;  469          0917  2
;  470          0918  2  ! If this is a C1 type definition, loop twice (once for the C1 definition
;  471          0919  2  ! and once for the C0 equivalent definition).  Otherwise, only go through
;  472          0920  2  ! once.
;  473          0921  2
;  474          0922  3  INCR J FROM 1 TO (IF .KEY_BLOCK[KEY_V_CSI] OR .KEY_BLOCK[KEY_V_SS3]
;  475          0923  3                  THEN 2 ELSE 1)
;  476          0924  2  DO
;  477          0925  3      BEGIN
;  478          0926  3
;  479          0927  3  ! Determine the size of the overhead area.
;  480          0928  3
;  481          0929  4      TERM_OFFSET = (IF .KEY_BLOCK[KEY_V_CSI] OR .KEY_BLOCK[KEY_V_SS3]
;  482          0930  4                     THEN .J
;  483          0931  4                     ELSE IF .KEY_BLOCK[KEY_V_ESCSEQ]
;  484          0932  4                          THEN 1
;  485          0933  3                          ELSE 0);
;  486          0934  3
;  487          0935  3  ! Allocate storage for the key definition block.
;  488          0936  3
;  489        P 0937  3      AED_L_WORSTERR = ALLOCATE (.KEY_STRING[DSC$W_LENGTH] + KEY_C_LENGTH +
;  490          0938  3                                                          + .TERM_OFFSET, NEW_KEY);
;  491          0939  3      IF NOT .AED_L_WORSTERR THEN RETURN 0;
;  492          0940  3
;  493          0941  3  ! Save the needed information in the key definition block.
;  494          0942  3
;  495          0943  3      NEW_KEY[KEY_B_ACTION] = .KEY_ACTION;
;  496          0944  3      NEW_KEY[KEY_B_SIZE] = .KEY_STRING[DSC$W_LENGTH] + .TERM_OFFSET;
;  497          0945  3      NEW_KEY[KEY_B_FLAGS] = .KEY_FLAGS OR KEY_M_USERDEF;
;  498          0946  3
;  499          0947  3  ! Set up the overhead area for the key text definition.
;  500          0948  3
;  501          0949  3      IF .KEY_BLOCK[KEY_V_CSI] OR .KEY_BLOCK[KEY_V_SS3]
;  502          0950  3      THEN
;  503          0951  4          BEGIN
;  504          0952  4          IF .J EQL 1
;  505          0953  5          THEN NEW_KEY[KEY_T_TEXT] = (IF .KEY_BLOCK[KEY_V_CSI]
;  506          0954  5                                      THEN CHAR_CSI ELSE CHAR_SS3)
;  507          0955  4          ELSE
;  508          0956  5              BEGIN
;  509          0957  6              NEW_KEY[KEY_T_TEXT] = (IF .KEY_BLOCK[KEY_V_CSI]
;  510          0958  5                                     THEN CHAR_CSI_1 ELSE CHAR_SS3_1);
;  511          0959  6              (NEW_KEY[KEY_T_TEXT]) + 1 = (IF .KEY_BLOCK[KEY_V_CSI]
```

```
;   512          0960  5                                  THEN CHAR_CSI_2 ELSE CHAR_SS3_2);
;   513          0961  4                 END;
;   514          0962  4             END
;   515          0963  3         ELSE IF .KEY_BLOCK[KEY_V_ESCSEQ]
;   516          0964  3              THEN NEW_KEY[KEY_T_TEXT] = %X'1B'
;   517          0965  3              ELSE IF .KEY_BLOCK[KEY_V_CTRLCHAR]
;   518          0966  3                   THEN .KEY_STRING[DSC$A_POINTER] = ..KEY_STRING[DSC$A_POINTER] - %X'40';
;   519          0967  3
;   520          0968  3     ! Move over the key definition text.
;   521          0969  3
;   522          0970  3         CH$MOVE (.KEY_STRING[DSC$W_LENGTH], .KEY_STRING[DSC$A_POINTER],
;   523          0971  3                  NEW_KEY[KEY_T_TEXT] + .TERM_OFFSET);
;   524          0972  3
;   525          0973  3     ! Check for and remove any default definitions that this new definition
;   526          0974  3     ! replaces.
;   527          0975  3
;   528          0976  3         NEXT_DEF = .KEY_TABLE[KEY_L_FLINK];
;   529          0977  3         KEY_INSERTED = 0;
;   530          0978  3         UNTIL .NEXT_DEF EQLA KEY_TABLE[KEY_L_FLINK]
;   531          0979  3         DO
;   532          0980  4             BEGIN
;   533          0981  4             IF .NEXT_DEF[KEY_B_ACTION] EQL .KEY_ACTION
;   534          0982  4             THEN
;   535          0983  5                 BEGIN
;   536          0984  5                 IF .KEY_INSERTED EQL 0
;   537          0985  5                 THEN
;   538          0986  6                     BEGIN
;   539          0987  6                     INSQUE (NEW_KEY[KEY_L_FLINK], NEXT_DEF[KEY_L_FLINK]);
;   540          0988  6                     KEY_INSERTED = 1;
;   541          0989  5                     END;
;   542          0990  5                 IF NOT .NEXT_DEF[KEY_V_USERDEF]
;   543          0991  5                 THEN
;   544          0992  6                     BEGIN
;   545          0993  6                     NEW_KEY = .NEXT_DEF[KEY_L_BLINK];
;   546          0994  6                     REMQUE (NEXT_DEF[KEY_L_FLINK], KEY_INSERTED);
;   547          0995  6                     NEXT_DEF = .NEW_KEY;
;   548          0996  5                     END;
;   549          0997  4                 END;
;   550          0998  4             NEXT_DEF = .NEXT_DEF[KEY_L_FLINK];
;   551          0999  3             END;                                    ! End of C1 loop
;   552          1000  2         END;
;   553          1001  2     KEY_FLAGS = 0;
;   554          1002  2     RETURN 1;
;   555          1003  2
;   556          1004  1 END;                                                ! End of routine SET_DEFINITION


                                     0FFC 00000 SET_DEFINITION:
                                                .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        ; 0846
                5E                   08  C2 00002       SUBL2   #8, SP                              ;
                01      0000'        CF  B1 00005       CMPW    KEY_STRING, #1                      ; 0899
                                     1F  1B 0000A       BLEQU   1$                                  ;
                3C      0000'        DF  91 0000C       CMPB    @KEY_STRING+4, #60                  ; 0902
                                     18  12 00011       BNEQ    1$                                  ;
```

```
                                0000'  CF   D6 00013          INCL    KEY_STRING+4                                    ; 0905
                          0000'  CF    02   A2 00017          SUBW2   #2, KEY_STRING                                  ; 0906
                                 50    0000'  CF   3C 0001C   MOVZWL  KEY_STRING, R0                                  ; 0907
                                 50    0000'  CF   C0 00021   ADDL2   KEY_STRING+4, R0                                ;
                                 3E           60   91 00026   CMPB    (R0), #62                                       ;
                                              0C   12 00029   BNEQ    2$                                              ;
                    16    0000'  CF          03   E1 0002B 1$:  BBC     #3, KEY_BLOCK+10, 4$                            ; 0914
                    03    0000'  CF          04   E1 00031     BBC     #4, KEY_BLOCK+10, 3$                            ;
                                          0142  31   00037 2$:  BRW     27$                                             ;
                    07    0000'  CF          03   E1 0003A 3$:  BBC     #3, KEY_BLOCK+10, 4$                            ; 0915
                                 01    0000'  CF   B1 00040     CMPW    KEY_STRING, #1                                  ;
                                       F0   12   00045         BNEQ    2$                                              ;
                                 06    0000'  CF   E8 00047 4$:  BLBS    KEY_BLOCK+10, 5$                                ; 0922
                    05    0000'  CF          01   E1 0004C     BBC     #1, KEY_BLOCK+10, 6$                            ;
                                 5B           02   D0 00052 5$:  MOVL    #2, R11                                         ;
                                              03   11 00055     BRB     7$                                              ;
                                 5B           01   D0 00057 6$:  MOVL    #1, R11                                         ;
                                              59   D4 0005A 7$:  CLRL    J                                               ;
                                          010F  31   0005C     BRW     26$                                             ;
                                 06    0000'  CF   E8 0005F 8$:  BLBS    KEY_BLOCK+10, 9$                                ; 0929
                    05    0000'  CF          01   E1 00064     BBC     #1, KEY_BLOCK+10, 10$                           ;
                                 57           59   D0 0006A 9$:  MOVL    J, TERM_OFFSET                                  ; 0930
                                              0D   11 0006D     BRB     12$                                             ;
                    05    0000'  CF          04   E1 0006F 10$: BBC     #4, KEY_BLOCK+10, 11$                           ; 0931
                                 57           01   D0 00075     MOVL    #1, TERM_OFFSET                                 ;
                                              02   11 00078     BRB     12$                                             ;
                                              57   D4 0007A 11$: CLRL    TERM_OFFSET                                     ;
                                       04     AE   9F 0007C 12$: PUSHAB  NEW_KEY                                         ; 0938
                                 50    0000'  CF   3C 0007F     MOVZWL  KEY_STRING, R0                                  ;
                                       04     AE   0B A740 9E 00084 MOVAB  11(TERM_OFFSET)[R0], 4(SP)                   ;
                                       04     AE   9F 0008A     PUSHAB  4(SP)                                           ;
                          00000000G    00         02   FB 0008D     CALLS   #2, LIB$GET_VM                              ;
                                 58           50   D0 00094     MOVL    R0, VM_STATUS                                   ;
                                 11           58   E9 00097     BLBC    VM_STATUS, 13$                                  ;
                                 50    0000'  CF   3C 0009A     MOVZWL  KEY_STRING, R0                                  ;
                                 50    0B A740 9E 0009F         MOVAB   11(TERM_OFFSET)[R0], R0                         ;
                    50                 00   6E   00 2C 000A4   MOVC5   #0, (SP), #0, R0, @NEW_KEY                      ;
                                       04     BE   000A9                                                              ;
                          0000'  CF          58   D0 000AB 13$: MOVL    VM_STATUS, AED_L_WORSTERR                       ;
                                 82    0000'  CF   E9 000B0     BLBC    AED_L_WORSTERR, 2$                              ; 0939
                                 50     04    AE   D0 000B5     MOVL    NEW_KEY, R0                                     ; 0943
                                08     A0    0000'  CF   90 000B9 MOVB    KEY_ACTION, 8(R0)                           ;
                          09    A0    0000'  CF          57   81 000BF     ADDB3   TERM_OFFSET, KEY_STRING, 9(R0)          ; 0944
                          0A    A0    0000'  CF          20   89 000C6     BISB3   #32, KEY_FLAGS, 10(R0)                  ; 0945
                    52    0000'  CF          01         00   EF 000CD     EXTZV   #0, #1, KEY_BLOCK+10, R2                ; 0949
                                             06         52   E8 000D4     BLBS    R2, 14$                                 ;
                                32    0000'  CF          01   E1 000D7     BBC     #1, KEY_BLOCK+10, 20$                   ;
                                 01          59   D1 000DD 14$:  CMPL    J, #1                                           ; 0952
                                             13   12 000E0     BNEQ    17$                                             ;
                                 06          52   E9 000E2     BLBC    R2, 15$                                         ; 0953
                                 51     9B    8F   9A 000E5     MOVZBL  #155, R1                                        ;
                                             04   11 000E9     BRB     16$                                             ;
                                 51     8F    8F   9A 000EB 15$: MOVZBL  #143, R1                                        ;
                          0B     A0          51   90 000EF 16$: MOVB    R1, 11(R0)                                      ;
                                             35   11 000F3     BRB     22$                                             ;
                                 51          1B   D0 000F5 17$: MOVL    #27, R1                                         ; 0957
                          0B     A0          51   90 000F8     MOVB    R1, 11(R0)                                      ;
```

```
                        06          52  E9 000FC          BLBC    R2, 18$                                 ;  0959
                        51      5B  8F  9A 000FF          MOVZBL  #91, R1                                 ;
                                    04  11 00103          BRB     19$                                     ;
                        51      4F  8F  9A 00105 18$:     MOVZBL  #79, R1                                 ;
                     0C     A0      51  D0 00109 19$:     MOVL    R1, 12(R0)                              ;
                                    1B  11 0010D          BRB     22$                                     ;  0949
                06   0000'  CF          04  E1 0010F 20$: BBC     #4, KEY_BLOCK+10, 21$                   ;  0963
                     0B     A0          1B  90 00115      MOVB    #27, 11(R0)                             ;  0964
                                    0F  11 00119          BRB     22$                                     ;
                09   0000'  CF          03  E1 0011B 21$: BBC     #3, KEY_BLOCK+10, 22$                   ;  0965
                0000'  DF 00000040.     8F  C2 00121      SUBL2   #64, @KEY_STRING+4                      ;  0966
             0B A740   0000'  DF  0000'  CF  28 0012A 22$: MOVC3   KEY_STRING, @KEY_STRING+4, 11(TERM_OFFSET)-  ;  0971
                                                          [R0]                                            ;
                        56  0000G   CF  D0 00134          MOVL    KEY_TABLE, NEXT_DEF                     ;  0976
                                    5A  D4 00139          CLRL    KEY_INSERTED                            ;  0977
                        50  0000G   CF  9E 0013B 23$:     MOVAB   KEY_TABLE, R0                           ;  0978
                        50          56  D1 00140          CMPL    NEXT_DEF, R0                            ;
                                    29  13 00143          BEQL    26$                                     ;
                     0000'  CF      08  A6 91 00145      CMPB    8(NEXT_DEF), KEY_ACTION                 ;  0981
                                    1C  12 0014B          BNEQ    25$                                     ;
                                    5A  D5 0014D          TSTL    KEY_INSERTED                            ;  0984
                                    07  12 0014F          BNEQ    24$                                     ;
                        66      04  BE  0E 00151          INSQUE  @NEW_KEY, (NEXT_DEF)                    ;  0987
                        5A          01  D0 00155          MOVL    #1, KEY_INSERTED                        ;  0988
                0C      0A      A6      05  E0 00158 24$: BBS     #5, 10(NEXT_DEF), 25$                   ;  0990
                     04 AE      04  A6  D0 0015D          MOVL    4(NEXT_DEF), NEW_KEY                    ;  0993
                        5A          66  0F 00162          REMQUE  (NEXT_DEF), KEY_INSERTED                ;  0994
                        56      04  AE  D0 00165          MOVL    NEW_KEY, NEXT_DEF                       ;  0995
                        56          66  D0 00169 25$:     MOVL    (NEXT_DEF), NEXT_DEF                    ;  0998
                                    CD  11 0016C          BRB     23$                                     ;  0978
        FEEB    59          01      5B  F1 0016E 26$:     ACBL    R11, #1, J, 8$                          ;  0922
                        0000'   CF      94 00174          CLRB    KEY_FLAGS                               ;  1001
                        50          01  D0 00178          MOVL    #1, R0                                  ;  1002
                                        04 0017B          RET                                             ;
                                    50  D4 0017C 27$:     CLRL    R0                                      ;  1004
                                        04 0017E          RET                                             ;

; Routine Size:  383 bytes,    Routine Base:  $CODE$ + 0255
```

```
;  558     1005  1 GLOBAL ROUTINE AED_DECODEKEY =
;  559     1006  1
;  560     1007  1 !++
;  561     1008  1 !
;  562     1009  1 ! FUNCTIONAL DESCRIPTION:
;  563     1010  1 !
;  564     1011  1 !       This routine accepts input from the input channel and decodes it
;  565     1012  1 !       according to the definitions from the action definition file (or
;  566     1013  1 !       the default definitions).
;  567     1014  1 !
;  568     1015  1 ! CALLING SEQUENCE:
;  569     1016  1 !       AED_DECODEKEY ()
;  570     1017  1 !
;  571     1018  1 ! INPUT PARAMETERS:
;  572     1019  1 !       none
;  573     1020  1 !
;  574     1021  1 ! IMPLICIT INPUTS:
;  575     1022  1 !       none
;  576     1023  1 !
;  577     1024  1 ! OUTPUT PARAMETERS:
;  578     1025  1 !       none
;  579     1026  1 !
;  580     1027  1 ! IMPLICIT OUTPUTS:
;  581     1028  1 !       none
;  582     1029  1 !
;  583     1030  1 ! ROUTINE VALUE:
;  584     1031  1 !       0 if a fatal error occurs,
;  585     1032  1 !       Action code value if special (AED_V_ACTION also set)
;  586     1033  1 !       ASCII character value
;  587     1034  1 !
;  588     1035  1 ! SIDE EFFECTS:
;  589     1036  1 !       none
;  590     1037  1 !
;  591     1038  1 !--
;  592     1039  1
;  593     1040  2 BEGIN
;  594     1041  2
;  595     1042  2 MACRO
;  596     1043  2         TERM_CHAR       = AED_W_IOSB[2] %,
;  597     1044  2         TERM_SIZE       = AED_W_IOSB[3] %,
;  598     1045  2         TERM_STRING     = INPUT_BUFFER[.AED_W_IOSB[1]] %;
;  599     1046  2
;  600     1047  2 LABEL
;  601     1048  2         DECODE_KEY;
;  602     1049  2
;  603     1050  2 LOCAL
;  604     1051  2         LOCAL_STATUS,                                   ! Local routine return status
;  605     1052  2         INPUT_BUFFER    : VECTOR [10,BYTE],             ! Storage for input characters
;  606     1053  2         TERM_DESC       : $BBLOCK [DSC$C_S_BLN],                ! Term table descr
;  607     1054  2         TERM_TABLE      : VECTOR [8]                    ! Terminator table
;  608     1055  2                           INITIAL (REP 8 OF (-1)),              ! All are terminators
;  609     1056  2         NEXT_DEF        : REF $BBLOCK,                  ! Address of next key definition
;  610     1057  2         KEY_WITHOUT_GLD : REF $BBLOCK,                  ! Address of key definition without gold required
;  611     1058  2         RETURN_CHAR;                                    ! Character/code to return
;  612     1059  2
;  613     1060  2 ! If this is a recovery, get a word (16 bits) from the recovery record.  This
;  614     1061  2 ! contains a character if the high byte is zero, or an editor action if not.
```

```
;   615          1062  2
;   616          1063  2 IF .AED_B_OPTIONS[AED_V_RECOVER]
;   617          1064  2 THEN
;   618          1065  3     BEGIN
;   619          1066  3     IF .RECOVER_RAB[RAB$W_RSZ] LEQ 0
;   620          1067  3     THEN
;   621          1068  4         BEGIN
;   622          1069  5         IF NOT (LOCAL_STATUS = $GET (RAB = RECOVER_RAB))
;   623          1070  4         THEN
;   624          1071  5             BEGIN
;   625          1072  5             IF .LOCAL_STATUS NEQ RMS$_EOF
;   626          1073  5             THEN
;   627          1074  6                 BEGIN
;   628          1075  6                 AED_FILERROR (AED$_RECREADERR, RECOVER_FAB,
;   629          1076  6                               .RECOVER_RAB[RAB$L_STS], .RECOVER_RAB[RAB$L_STV]);
;   630          1077  6                 AED_B_OPTIONS[AED_V_RECOVER] = 0;
;   631          1078  5                 END;
;   632          1079  5             $CLOSE (FAB = RECOVER_FAB);
;   633          1080  5             AED_B_OPTIONS[AED_V_RECOVER] = 0;
;   634          1081  5             RETURN 1;
;   635          1082  4             END;
;   636          1083  4         RECOVER_INDEX = 0;
;   637          1084  3         END;
;   638          1085  3     RETURN_CHAR = .RECOVER_BUFFER[.RECOVER_INDEX];
;   639          1086  3     RECOVER_INDEX = .RECOVER_INDEX + 1;
;   640          1087  3     AED_L_FLAGS[AED_V_ACTIONKEY] = .RECOVER_BUFFER[.RECOVER_INDEX];
;   641          1088  3     RECOVER_INDEX = .RECOVER_INDEX + 1;
;   642          1089  3     RECOVER_RAB[RAB$W_RSZ] = .RECOVER_RAB[RAB$W_RSZ] - 2;
;   643          1090  3     END
;   644          1091  2 ELSE
;   645          1092  2
;   646          1093  2 ! Get a character typed (or escape sequence) by the user.
;   647          1094  2
;   648          1095  3 DECODE_KEY: BEGIN
;   649          1096  3     TERM_DESC[DSC$W_LENGTH] = 8*4;
;   650          1097  3     TERM_DESC[DSC$A_POINTER] = TERM_TABLE;
;   651        P 1098  3     AED_L_STATUS = $QIOW (CHAN = .AED_W_TERMIN, ! Get character
;   652        P 1099  3                           FUNC = IO$_READVBLK OR IO$M_ESCAPE
;   653        P 1100  3                                                OR IO$M_NOFILTR
;   654        P 1101  3                                                OR IO$M_TRMNOECHO,
;   655        P 1102  3                           IOSB = AED_W_IOSB,
;   656        P 1103  3                           P1 = INPUT_BUFFER,
;   657        P 1104  3                           P2 = 10,
;   658          1105  3                           P4 = TERM_DESC);
;   659          1106  3     IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;   660          1107  3     IF NOT .AED_L_STATUS
;   661          1108  3     THEN
;   662          1109  4         BEGIN
;   663          1110  4         IF .AED_L_STATUS EQL SS$_BADESCAPE
;   664          1111  4         THEN
;   665          1112  5             BEGIN
;   666          1113  5             AED_L_STATUS = 1;
;   667          1114  5             RETURN_CHAR = AED_C_CHAR_ESC;
;   668          1115  5             LEAVE DECODE_KEY;
;   669          1116  4             END;
;   670          1117  4         SIGNAL (.AED_L_STATUS);
;   671          1118  4         RETURN 0;
```

```
;  672     1119  3          END;
;  673     1120  3
;  674     1121  3      ! If the character is nothing special, simply return with the character.
;  675     1122  3
;  676     1123  3          AED_L_FLAGS[AED_V_ACTIONKEY] = 0;
;  677     1124  3          IF .TERM_CHAR GEQ ' ' AND .TERM_CHAR NEQ %X'7F'
;  678     1125  3          THEN
;  679     1126  4              BEGIN
;  680     1127  4              RETURN_CHAR = .TERM_CHAR;
;  681     1128  4              LEAVE DECODE_KEY;
;  682     1129  3              END;
;  683     1130  3
;  684     1131  3      ! Otherwise, it will be necessary to search the action definition table to
;  685     1132  3      ! determine whether or not the character (or characters) defines an ACL
;  686     1133  3      ! editor action.
;  687     1134  3
;  688     1135  3          KEY_WITHOUT_GLD = 0;
;  689     1136  3          NEXT_DEF = .KEY_TABLE[KEY_L_FLINK];
;  690     1137  3          UNTIL .NEXT_DEF EQLA KEY_TABLE[KEY_L_FLINK]
;  691     1138  3          DO
;  692     1139  4              BEGIN
;  693     1140  4              IF CH$EQL (.NEXT_DEF[KEY_B_SIZE], NEXT_DEF[KEY_T_TEXT],
;  694     1141  4                         .TERM_SIZE, TERM_STRING, 0)
;  695     1142  4              THEN
;  696     1143  5                  BEGIN
;  697     1144  5                  IF .NEXT_DEF[KEY_V_GOLDREQ] EQL .AED_L_FLAGS[AED_V_GOLDKEY]
;  698     1145  5                  THEN
;  699     1146  6                      BEGIN
;  700     1147  6                      AED_L_FLAGS[AED_V_ACTIONKEY] = 1;
;  701     1148  6                      RETURN_CHAR = .NEXT_DEF[KEY_B_ACTION];
;  702     1149  6                      LEAVE DECODE_KEY;
;  703     1150  5                      END;
;  704     1151  5                  IF NOT .NEXT_DEF[KEY_V_GOLDREQ] THEN KEY_WITHOUT_GLD = .NEXT_DEF;
;  705     1152  4                  END;
;  706     1153  4              NEXT_DEF = .NEXT_DEF[KEY_L_FLINK];
;  707     1154  3              END;
;  708     1155  3
;  709     1156  3      ! Nothing has been found in the definition table.  Check to see if there
;  710     1157  3      ! was a key defined except that the gold key was hit but not required.
;  711     1158  3      ! If this is the case, clear the GOLDKEY flag and return the appropriate
;  712     1159  3      ! action code.  Otherwise simply return the terminating character.
;  713     1160  3
;  714     1161  3          IF .KEY_WITHOUT_GLD NEQ 0
;  715     1162  3          THEN
;  716     1163  4              BEGIN
;  717     1164  4              AED_L_FLAGS[AED_V_GOLDKEY] = 0;
;  718     1165  4              AED_L_FLAGS[AED_V_ACTIONKEY] = 1;
;  719     1166  4              RETURN_CHAR = .KEY_WITHOUT_GLD[KEY_B_ACTION];
;  720     1167  4              LEAVE DECODE_KEY;
;  721     1168  3              END;
;  722     1169  3          RETURN_CHAR = .TERM_CHAR;
;  723     1170  2          END;                                        ! End of DECODE_KEY block
;  724     1171  2
;  725     1172  2      ! If the action cannot be logged (EXIT or QUIT), simply return now.
;  726     1173  2
;  727     1174  2      IF .AED_L_FLAGS[AED_V_ACTIONKEY]
;  728     1175  3      AND (.RETURN_CHAR EQL KEY_C_EXIT OR .RETURN_CHAR EQL KEY_C_QUIT)
```

```
;  729          1176  2 THEN RETURN .RETURN_CHAR;
;  730          1177  2
;  731          1178  2 ! If necessary, put the character or code into the journal buffer.  If
;  732          1179  2 ! the buffer fills up, write it out.
;  733          1180  2
;  734          1181  2 IF .AED_B_OPTIONS[AED_V_JOURNAL]
;  735          1182  2 THEN
;  736          1183  3     BEGIN
;  737          1184  3     IF .JOURNAL_INDEX GEQ 10
;  738          1185  3     THEN
;  739          1186  4         BEGIN
;  740          1187  4         IF NOT $PUT (RAB = JOURNAL_RAB) THEN AED_B_OPTIONS[AED_V_JOURNAL] = 0;
;  741          1188  4         CH$FILL (0, 10, JOURNAL_BUFFER);
;  742          1189  4         JOURNAL_INDEX = 0;
;  743          1190  3         END;
;  744          1191  3     JOURNAL_BUFFER[.JOURNAL_INDEX] = .RETURN_CHAR;
;  745          1192  3     JOURNAL_INDEX = .JOURNAL_INDEX + 1;
;  746          1193  3     IF .AED_L_FLAGS[AED_V_ACTIONKEY]
;  747          1194  3     THEN JOURNAL_BUFFER[.JOURNAL_INDEX] = 1
;  748          1195  3     ELSE JOURNAL_BUFFER[.JOURNAL_INDEX] = 0;
;  749          1196  3     JOURNAL_INDEX = .JOURNAL_INDEX + 1;
;  750          1197  2     END;
;  751          1198  2
;  752          1199  2 RETURN .RETURN_CHAR;
;  753          1200  2
;  754          1201  1 END;                                    ! End of routine AED_DECODEKEY


                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                                    00011       .BLKB   3
                          FFFFFFFF# 00014 P.AAC: .LONG   -1[8]                                   ;

                                                .EXTRN  SYS$CLOSE, SYS$QIOW
                                                .EXTRN  SYS$PUT

                                                .PSECT  $CODE$,NOWRT,2

                                    0FFC 00000  .ENTRY  AED_DECODEKEY, Save R2,R3,R4,R5,R6,R7,R8,-  ; 1005
                                                        R9,R10,R11
                          5B 00000000G  00  9E 00002    MOVAB   SCR$SET_CURSOR, R11                ;
                          5A      0000' CF  9E 00009    MOVAB   AED_L_FLAGS, R10                   ;
                          5E            34  C2 0000E    SUBL2   #52, SP                            ;
6E      0000'             CF            20  28 00011    MOVC3   #32, P.AAC, TERM_TABLE             ; 1055
76        04              AA            01  E1 00017    BBC     #1, AED_B_OPTIONS, 4$              ; 1063
                                  04F6    CA  B5 0001C    TSTW    RECOVER_RAB+34                     ; 1066
                                          46  12 00020    BNEQ    3$                                 ;
                                  04D4    CA  9F 00022    PUSHAB  RECOVER_RAB                        ; 1069
    00000000G             00            01  FB 00026    CALLS   #1, SYS$GET                        ;
                          34            50  E8 0002D    BLBS    LOCAL_STATUS, 2$                   ;
    0001827A              8F            50  D1 00030    CMPL    LOCAL_STATUS, #98938               ; 1072
                                        18  13 00037    BEQL    1$                                 ;
                          7E      04DC  CA  7D 00039    MOVQ    RECOVER_RAB+8, -(SP)               ; 1076
                                  0424  CA  9F 0003E    PUSHAB  RECOVER_FAB                        ; 1075
                                00000000G 8F  DD 00042    PUSHL   #AED$_RECREADERR                   ;
          0000G                 CF            04  FB 00048    CALLS   #4, AED_FILERROR               ;
```

```
                                04   AA          02   8A 0004D                BICB2   #2, AED_B_OPTIONS                       ; 1077
                                             0424   CA 9F 00051 1$:          PUSHAB  RECOVER_FAB                             ; 1079
                         00000000G   00          01   FB 00055              CALLS   #1, SYS$CLOSE                           ;
                                04   AA          02   8A 0005C              BICB2   #2, AED_B_OPTIONS                       ; 1080
                                50               01   D0 00060              MOVL    #1, R0                                  ; 1081
                                                 04   00063                RET                                             ;
                                             0524   CA D4 00064 2$:          CLRL    RECOVER_INDEX                           ; 1083
                                50           0518   CA 9E 00068 3$:          MOVAB   RECOVER_BUFFER, R0                      ; 1085
                                57           0524 DA40 9A 0006D              MOVZBL  @RECOVER_INDEX[R0], RETURN_CHAR         ;
                                             0524   CA D6 00073              INCL    RECOVER_INDEX                           ; 1086
                                50           0518   CA 9E 00077              MOVAB   RECOVER_BUFFER, R0                      ; 1087
                                             0524 DA40 9F 0007C              PUSHAB  @RECOVER_INDEX[R0]                      ;
    02   AA          01                      05   9E F0 00081              INSV    @(SP)+, #5, #1, AED_L_FLAGS+2           ;
                                             0524   CA D6 00087              INCL    RECOVER_INDEX                           ; 1088
                                   04F6      CA   02   A2 0008B              SUBW2   #2, RECOVER_RAB+34                      ; 1089
                                             50   11   00090              BRB     6$                                      ; 1063
                                   20   AE          20   B0 00092 4$:          MOVW    #32, TERM_DESC                          ; 1096
                                   24   AE          6E   9E 00096              MOVAB   TERM_TABLE, TERM_DESC+4                 ; 1097
                                               7E   7C 0009A                CLRQ    -(SP)                                   ; 1105
                                         28    AE   9F 0009C                PUSHAB  TERM_DESC                               ;
                                7E               0A   7D 0009F              MOVQ    #10, -(SP)                              ;
                                         3C    AE   9F 000A2                PUSHAB  INPUT_BUFFER                            ;
                                               7E   7C 000A5                CLRQ    -(SP)                                   ;
                                             0084   CA 9F 000A7              PUSHAB  AED_W_IOSB                              ;
                                7E           5231   8F 3C 000AB              MOVZWL  #21041, -(SP)                           ;
                                7E             7C   AA 3C 000B0              MOVZWL  AED_W_TERMIN, -(SP)                     ;
                                               7E   D4 000B4                CLRL    -(SP)                                   ;
                         00000000G   00              0C   FB 000B6              CALLS   #12, SYS$QIOW                           ;
                                   008C      CA       50   D0 000BD              MOVL    R0, AED_L_STATUS                        ;
                                   0C        CA   008C   CA E9 000C2              BLBC    AED_L_STATUS, 5$                        ; 1106
                                   008C      CA   0084   CA 3C 000C7              MOVZWL  AED_W_IOSB, AED_L_STATUS                ;
                                   60        CA   008C   CA E8 000CE              BLBS    AED_L_STATUS, 1T$                       ; 1107
                                   3C        CA   008C   CA D1 000D3 5$:          CMPL    AED_L_STATUS, #60                       ; 1110
                                                  0B   12   000D8              BNEQ    7$                                      ;
                                   008C      CA          01   D0 000DA              MOVL    #1, AED_L_STATUS                        ; 1113
                                57                     1B   D0 000DF              MOVL    #27, RETURN_CHAR                        ; 1114
                                                 00C7   31   000E2 6$:          BRW     18$                                     ; 1115
                           12                    6A     03   E1 000E5 7$:          BBC     #3, AED_L_FLAGS, 8$                     ; 1117
                                                        01   DD 000E9              PUSHL   #1                                      ;
                                                        15   DD 000EB              PUSHL   #21                                     ;
                         00000000G   00                 02   FB 000ED              CALLS   #2, SCR$ERASE_PAGE                      ;
                                                        01   DD 000F4              PUSHL   #1                                      ;
                                                        15   DD 000F6              PUSHL   #21                                     ;
                                6B                      02   FB 000F8              CALLS   #2, SCR$SET_CURSOR                      ;
                                             008C       CA   DD 000FB 8$:          PUSHL   AED_L_STATUS                            ;
                         00000000G   00                 01   FB 000FF              CALLS   #1, LIB$SIGNAL                          ;
                           0B                    6A     03   E1 00106              BBC     #3, AED_L_FLAGS, 9$                     ;
                                7E               20     AA 9A 0010A              MOVZBL  AED_B_COLUMN, -(SP)                     ;
                                7E               24     AA 9A 0010E              MOVZBL  AED_B_LINE, -(SP)                       ;
                                6B                      02   FB 00112              CALLS   #2, SCR$SET_CURSOR                      ;
                                50           008C       CA   D0 00115 9$:          MOVL    AED_L_STATUS, R0                        ;
                                07                      50   93 0011A              BITB    R0, #7                                  ;
                                                        11   13 0011D              BEQL    10$                                     ;
    51          50                          03          00   EF 0011F              EXTZV   #0, #3, R0, R1                          ;
    51     14   AA                          03          00   ED 00124              CMPZV   #0, #3, AED_L_WORSTERR, R1              ;
                                                        04   18 0012A              BGEQ    10$                                     ;
                                      14    AA          50   D0 0012C              MOVL    R0, AED_L_WORSTERR                      ;
```

```
                                                00DE  31 00130 10$:    BRW     25$                                     ; 1118
                                          02    AA    20 8A 00133 11$:    BICB2   #32, AED_L_FLAGS+2                      ; 1123
                                          58  0088    CA 3C 00137         MOVZWL  AED_W_IOSB+4, R8                        ; 1124
                                          20          58 B1 0013C         CMPW    R8, #32                                 ;
                                                      07 1F 0013F         BLSSU   12$                                     ;
                                       007F  8F       58 B1 00141         CMPW    R8, #127                                ;
                                                      61 12 00146         BNEQ    17$                                     ;
                                                      56 D4 00148 12$:    CLRL    KEY_WITHOUT_GLD                         ; 1135
                                          54  0000G   CF D0 0014A         MOVL    KEY_TABLE, NEXT_DEF                     ; 1136
                                          55  0086    CA 3C 0014F         MOVZWL  AED_W_IOSB+2, R5                        ; 1141
                                          59    28    AE 9E 00154         MOVAB   INPUT_BUFFER, R9                        ;
                                          50  0000G   CF 9E 00158 13$:    MOVAB   KEY_TABLE, R0                           ; 1137
                                          50          54 D1 0015D         CMPL    NEXT_DEF, R0                            ;
                                                      35 13 00160         BEQL    16$                                     ;
                                          50    09    A4 9A 00162         MOVZBL  9(NEXT_DEF), R0                         ; 1140
008A  CA        00        0B    A4      50 2D 00166         CMPC5   R0, 11(NEXT_DEF), #0, AED_W_IOSB+6, (R9)-       ; 1141
                                                6945        0016E         [R5]                                          ;
                                                      20 12 00170         BNEQ    15$                                     ;
      50        01    AA          01      03 EF 00172         EXTZV   #3, #1, AED_L_FLAGS+1, R0                       ; 1144
      50        0A    A4          01      02 ED 00178         CMPZV   #2, #1, 10(NEXT_DEF), R0                        ;
                                                      0A 12 0017E         BNEQ    14$                                     ;
                                          02    AA    20 88 00180         BISB2   #32, AED_L_FLAGS+2                      ; 1147
                                          57    08    A4 9A 00184         MOVZBL  8(NEXT_DEF), RETURN_CHAR                ; 1148
                                                      22 11 00188         BRB     18$                                     ; 1149
                        03        0A    A4            02 E0 0018A 14$:    BBS     #2, 10(NEXT_DEF), 15$                   ; 1151
                                          56          54 D0 0018F         MOVL    NEXT_DEF, KEY_WITHOUT_GLD               ;
                                          54          64 D0 00192 15$:    MOVL    (NEXT_DEF), NEXT_DEF                    ; 1153
                                                      C1 11 00195         BRB     13$                                     ; 1137
                                                      56 D5 00197 16$:    TSTL    KEY_WITHOUT_GLD                         ; 1161
                                                      0E 13 00199         BEQL    17$                                     ;
                                          01    AA          08 8A 0019B         BICB2   #8, AED_L_FLAGS+1               ; 1164
                                          02    AA          20 88 0019F         BISB2   #32, AED_L_FLAGS+2              ; 1165
                                          57    08    A6    9A 001A3         MOVZBL  8(KEY_WITHOUT_GLD), RETURN_CHAR         ; 1166
                                                      03 11 001A7         BRB     18$                                     ; 1167
                                          57          58 D0 001A9 17$:    MOVL    R8, RETURN_CHAR                         ; 1169
                        0A        02    AA          05 E1 001AC 18$:    BBC     #5, AED_L_FLAGS+2, 19$                  ; 1174
                                          27          57 D1 001B1         CMPL    RETURN_CHAR, #39                        ; 1175
                                                      57 13 001B4         BEQL    24$                                     ;
                                          28          57 D1 001B6         CMPL    RETURN_CHAR, #40                        ;
                                                      52 13 001B9         BEQL    24$                                     ;
                                          4E    04    AA E9 001BB 19$:    BLBC    AED_B_OPTIONS, 24$                      ; 1181
                                          0A  0420    CA D1 001BF         CMPL    JOURNAL_INDEX, #10                      ; 1184
                                                      1E 19 001C4         BLSS    21$                                     ;
                                              0378    CA 9F 001C6         PUSHAB  JOURNAL_RAB                             ; 1187
                              00000000G   00          01 FB 001CA         CALLS   #1, SYS$PUT                             ;
                                          04          50 E8 001D1         BLBS    R0, 20$                                 ;
                                          04    AA          01 8A 001D4         BICB2   #1, AED_B_OPTIONS               ;
0A                      00                6E            00 2C 001D8 20$:    MOVC5   #0, (SP), #0, #10, JOURNAL_BUFFER       ; 1188
                                                    0414  CA    001DD         ;                                               ;
                                                    0420  CA D4 001E0         CLRL    JOURNAL_INDEX                           ; 1189
                                          50        0414  CA 9E 001E4 21$:    MOVAB   JOURNAL_BUFFER, R0                      ; 1191
                                       0420 DA40          57 90 001E9         MOVB    RETURN_CHAR, @JOURNAL_INDEX[R0]         ;
                                                    0420  CA D6 001EF         INCL    JOURNAL_INDEX                           ; 1192
                                          50        0414  CA 9E 001F3         MOVAB   JOURNAL_BUFFER, R0                      ; 1194
                                          50        0420  CA C0 001F8         ADDL2   JOURNAL_INDEX, R0                       ;
                        05        02    AA          05 E1 001FD         BBC     #5, AED_L_FLAGS+2, 22$                  ; 1193
                                          60          01 90 00202         MOVB    #1, (R0)                                ; 1194
```

```
                                 02  11 00205              BRB     23$                                                     ;
                                 60  94 00207 22$:        CLRB    (R0)                                                    ; 1195
                           0420  CA  D6 00209 23$:        INCL    JOURNAL_INDEX                                           ; 1196
                        50       57  D0 0020D 24$:        MOVL    RETURN_CHAR, R0                                         ; 1199
                                 04 00210                RET                                                             ;
                                 50  D4 00211 25$:        CLRL    R0                                                      ; 1201
                                 04 00213                RET                                                             ;

; Routine Size:  532 bytes,    Routine Base:  $CODE$ + 03D4
```

```
;  756          1202  1 GLOBAL ROUTINE AED_FLUSHKEY =
;  757          1203  1
;  758          1204  1 !++
;  759          1205  1 !
;  760          1206  1 ! FUNCTIONAL DESCRIPTION:
;  761          1207  1 !
;  762          1208  1 !       This routine flushes the journal buffer and closes the journal file.
;  763          1209  1 !
;  764          1210  1 ! CALLING SEQUENCE:
;  765          1211  1 !       AED_FLUSHKEY ()
;  766          1212  1 !
;  767          1213  1 ! INPUT PARAMETERS:
;  768          1214  1 !       none
;  769          1215  1 !
;  770          1216  1 ! IMPLICIT INPUTS:
;  771          1217  1 !       OWN storage
;  772          1218  1 !
;  773          1219  1 ! OUTPUT PARAMETERS:
;  774          1220  1 !       none
;  775          1221  1 !
;  776          1222  1 ! IMPLICIT OUTPUTS:
;  777          1223  1 !       none
;  778          1224  1 !
;  779          1225  1 ! ROUTINE VALUE:
;  780          1226  1 !       1
;  781          1227  1 !
;  782          1228  1 ! SIDE EFFECTS:
;  783          1229  1 !       none
;  784          1230  1 !
;  785          1231  1 !--
;  786          1232  1
;  787          1233  2 BEGIN
;  788          1234  2
;  789          1235  2 ! If not writing a journal file, simply return now.
;  790          1236  2
;  791          1237  2 IF NOT .AED_B_OPTIONS[AED_V_JOURNAL] THEN RETURN 1;
;  792          1238  2
;  793          1239  2 IF .JOURNAL_INDEX GTR 0
;  794          1240  2 THEN
;  795          1241  3     BEGIN
;  796          1242  3     JOURNAL_RAB[RAB$W_RSZ] = .JOURNAL_INDEX * 2;
;  797          1243  3     $PUT (RAB = JOURNAL_RAB);
;  798          1244  2     END;
;  799          1245  2
;  800          1246  2 JOURNAL_FAB[FAB$V_DLT] = NOT .AED_B_OPTIONS[AED_V_KEEPJNL];
;  801          1247  2 $CLOSE (FAB = JOURNAL_FAB);
;  802          1248  2
;  803          1249  2 RETURN 1;
;  804          1250  2
;  805          1251  1 END;                                    ! End of routine AED_FLUSHKEY


                                0000 00000          .ENTRY  AED_FLUSHKEY, Save nothing      ; 1202
                    34  0000'   CF  E9 00002        BLBC    AED_B_OPTIONS, 2$               ; 1237
```

```
                                50     0000'  CF  D0 00007         MOVL    JOURNAL_INDEX, R0                       ; 1239
                                                11 15 0000C         BLEQ    1$
                          0000' CF             50  02 A5 0000E     MULW3   #2, R0, JOURNAL_RAB+34                  ; 1242
                                               50  CF 9F 00014     PUSHAB  JOURNAL_RAB                             ; 1243
                       00000000G               00  01 FB 00018     CALLS   #1, SYS$PUT
              50       0000' CF                01  03 EF 0001F 1$: EXTZV   #3, #1, AED_B_OPTIONS, R0              ; 1246
                                               50  50 D2 00026     MCOML   R0, R0
        0000' CF               01              07  50 F0 00029     INSV    R0, #7, #1, JOURNAL_FAB+5
                                               50  CF 9F 00030     PUSHAB  JOURNAL_FAB                             ; 1247
                       00000000G               00  01 FB 00034     CALLS   #1, SYS$CLOSE
                                               50  01 D0 0003B 2$: MOVL    #1, R0                                  ; 1249
                                                   04 0003E         RET                                             ; 1251

; Routine Size:  63 bytes,    Routine Base:  $CODE$ + 05E8

;  806          1252  1
;  807          1253  1 END
;  808          1254  0 ELUDOM



;                                   PSECT SUMMARY

;       Name                    Bytes                           Attributes

; AED_COMMON                     1320  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  OVR,NOPIC,ALIGN(0)
; $OWN$                            20  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
; _LIB$KEY0$                       94  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
; _LIB$STATE$                     538  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
; _LIB$KEY1$                      518  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
; $PLIT$                           52  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
; $CODE$                         1575  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)



;                           Library Statistics

;                                    --------  Symbols  --------      Pages       Processing
;       File                         Total     Loaded   Percent      Mapped      Time

; _$255$DUA28:[SYSLIB]LIB.L32;1       18619        122         0        1000        00:01.8
; _$255$DUA28:[SYSLIB]TPAMAC.L32;1       42         29        69          14        00:00.2



;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:AEDDECODE/OBJ=OBJ$:AEDDECODE MSRC$:AEDDECODE/UPDATE=(ENH$:AEDDECODE)
```

```
; Size:          1575 code + 2542 data bytes
; Run Time:          01:10.7
; Elapsed Time:      03:37.1
; Lines/CPU Min:        1064
; Lexemes/CPU-Min: 71863
; Memory Used:  431 pages
; Compilation Complete
```

AEDCLENUP
LIS

SYMBOLS
LIS

UTILITY
LIS

ACLEDTDEF
REQ

ACLEDT

SETSHOACL
MAP

ACLEDT
MAP

AEDLCLDEE
SDL

SUMMARY
LIS

SYMBOLMSG
LIS

AEDDECODE
LIS

AEDHELP
LIS

AEDINIT
LIS

AEDMAIN
LIS

AEDKEYTAB
LIS