E 14

```
PPPPPPPPPPPP        AAAAAAAAA     TTTTTTTTTTTTTTT     CCCCCCCCCCCC  HHH         HHH
PPPPPPPPPPPP        AAAAAAAAA     TTTTTTTTTTTTTTT     CCCCCCCCCCCC  HHH         HHH
PPPPPPPPPPPP        AAAAAAAAA     TTTTTTTTTTTTTTT     CCCCCCCCCCCC  HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPP         PPP  AAA         AAA        TTT        CCC              HHH         HHH
PPPPPPPPPPPP     AAA         AAA        TTT        CCC              HHHHHHHHHHHHHHH
PPPPPPPPPPPP     AAA         AAA        TTT        CCC              HHHHHHHHHHHHHHH
PPPPPPPPPPPP     AAA         AAA        TTT        CCC              HHHHHHHHHHHHHHH
PPP              AAAAAAAAAAAAAAA        TTT        CCC              HHH         HHH
PPP              AAAAAAAAAAAAAAA        TTT        CCC              HHH         HHH
PPP              AAAAAAAAAAAAAAA        TTT        CCC              HHH         HHH
PPP              AAA         AAA        TTT        CCC              HHH         HHH
PPP              AAA         AAA        TTT        CCC              HHH         HHH
PPP              AAA         AAA        TTT        CCC              HHH         HHH
PPP              AAA         AAA        TTT           CCCCCCCCCCCC  HHH         HHH
PPP              AAA         AAA        TTT           CCCCCCCCCCCC  HHH         HHH
PPP              AAA         AAA        TTT           CCCCCCCCCCCC  HHH         HHH
```

```
**FILE**ID**PATBAS                                     N  2
```

```
PPPPPPPP      AAAAAA    TTTTTTTTTT  BBBBBBBB      AAAAAA      SSSSSSSS
PPPPPPPP      AAAAAA    TTTTTTTTTT  BBBBBBBB      AAAAAA      SSSSSSSS
PP      PP  AA      AA      TT      BB      BB  AA      AA  SS
PP      PP  AA      AA      TT      BB      BB  AA      AA  SS
PP      PP  AA      AA      TT      BB      BB  AA      AA  SS
PP      PP  AA      AA      TT      BB      BB  AA      AA  SS
PPPPPPPP    AA      AA      TT      BBBBBBBB    AA      AA    SSSSSS
PPPPPPPP    AA      AA      TT      BBBBBBBB    AA      AA    SSSSSS
PP          AAAAAAAAAA      TT      BB      BB  AAAAAAAAAA          SS
PP          AAAAAAAAAA      TT      BB      BB  AAAAAAAAAA          SS
PP          AA      AA      TT      BB      BB  AA      AA          SS      ....
PP          AA      AA      TT      BB      BB  AA      AA          SS      ....
PP          AA      AA      TT      BBBBBBBB    AA      AA  SSSSSSSS        ....
PP          AA      AA      TT      BBBBBBBB    AA      AA  SSSSSSSS        ....

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

```
0 MODULE PATBAS (%IF %VARIANT EQL 1
0                    %THEN
0                            ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0                                             NONEXTERNAL = LONG_RELATIVE),
0                    %FI
0                    IDENT = 'V04-000') =
1 BEGIN
1
1 !****************************************************************************
1 !*                                                                          *
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1 !*                                                                          *
1 !*                                                                          *
1 !****************************************************************************
1 !
1 ! FACILITY:     PATCH
1 !
1 ! FUNCTIONAL DESCRIPTION:
1 !       INITIALIZATION ROUTINES FOR PATCH.
1 !
1 ! History:
1 !       Author:
1 !               Carol Peters, 12 Aug 1976: Version 01
1 !
1 ! MODIFIED BY:
1 !
1 !       V03-003 MCN0142         Maria oel C. Nasr       18-Jan-1982
1 !               Change SIGNAL to SIGNAL_STOP.  Also, define descriptors
1 !               for logical device names, since their FABs do not
1 !               have NAM blocks, and we cannot use the routine
1 !               GETFILDSC to get it.
1 !
1 !       V03-002 MTR0007         Mike Rhodes             14-Jun-1982
1 !               Use shared system messages.  Affected modules include:
1 !               DYNMEM.B32, PATBAS.B32, PATCMD.B32, PATIHD.B32, PATINT.B32,
1 !               PATIO.B32, PATMAI.B32, PATMSG.MSG, PATWRT.B32, and PATSPA.B32.
1 !
1 !               The shared messages are defined by DYNMEM.B32's invocation of
1 !               SHRMSG.REQ and we simply link against these symbols.  They are
1 !               declared as external literals below.
1 !
```

```
1 !
1 !        V03-001 MTR0006         Mike Rhodes             07-JUN-1982
1 !                Add statement to clear the I_HAT_SEEN bit for end
1 !                of command processing in routine PAT$SET_CONTEXT.
1 !
1 !        V02-001 PCG0001         Peter George            02-FEB-1981
1 !                Add require statement for LIB$:PATDEF.REQ
1 !
1 ! MODIFICATIONS:
1 !
1 !  NO   DATE            PROGRAMMER              PURPOSE
1 !  --   ----            ----------              -------
1 !
1 !  00   17-OCT-77       K.D. MORSE              ADAPT VERSION 54 FOR PATCH.
1 !  01   4-JAN-78        K.D. MORSE              NO CHANGES FOR 55-82.
1 !  02   24-JAN-78       K.D. MORSE              NO CHANGES FOR 83-84.
1 !  03   28-FEB-78       K.D. MORSE              NO CHANGES FOR 85-86.
1 !  04   01-MAR-78       K.D. MORSE              ADD CONTEXT BIT RESET FOR /ALL.
1 !  05   01-MAR-78       K.D. MORSE              NO CHANGES FOR 87.
1 !  06   24-MAR-78       K.D. MORSE              NO CHANGES FOR 88-91.
1 !  07   04-APR-78       K.D. MORSE              NO CHANGES FOR 92-93.
1 !  08   14-APR-78       K.D. MORSE              NO CHANGES FOR 94.
1 !  09   18-APR-78       K.D. MORSE              ADD LITERAL BIT AND OPN_COM_FILE.
1 !  10   25-APR-78       K.D. MORSE              CONVERT TO NATIVE COMPILER.
1 !  11   18-MAY-78       K.D. MORSE              NO CHANGES FOR VERS 95.
1 !  12   18-MAY-78       K.D. MORSE              NO CHANGES FOR VERS 96-97.
1 !  13   06-JUN-78       K.D. MORSE              INITIALIZE LISTHEADS FOR
1 !                                               OLD AND NEW LABELS, PAT$GL_OLDLABLS
1 !                                               AND PAT$GL_NEWLABLS.
1 !  14   13-JUN-78       K.D. MORSE              ADD FAO COUNTS TO SIGNALS.
1 !  15   16-JUN-78       K.D. MORSE              INITIALIZE APPENDED COMMAND
1 !                                               TEXT BUFFERS.
1 !  16   19-JUN-78       K.D. MORSE              NO CHANGES FOR VERS 98-99.
1 !  17   28-JUN-78       K.D. MORSE              NO CHANGES FOR VERS 100-102.
1 !
1 !--
```

```
:   95          0094  1 FORWARD ROUTINE
:   96          0095  1         PAT$SET_CONTEXT: NOVALUE,                               ! Routine to initialize context bits
:   97          0096  1         PAT$INIT: NOVALUE;                                      ! Routine to initialize PATCH
:   98          0097  1
:   99          0098  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
:  100          0099  1 REQUIRE 'SRC$:VXSMAC.REQ';
:  101          0164  1 REQUIRE 'SRC$:PATPCT.REQ';                                      ! Defines PSECTS
:  102          0204  1 REQUIRE 'SRC$:PATGEN.REQ';
:  103          0426  1 REQUIRE 'SRC$:BSTRUC.REQ';
:  104          0502  1 REQUIRE 'SRC$:DLLNAM.REQ';
:  105          0560  1 REQUIRE 'LIB$:PATDEF.REQ';                              ! Defines literals
:  106          0614  1 REQUIRE 'LIB$:PATMSG.REQ';
:  107          0788  1 REQUIRE 'SRC$:PREFIX.REQ';
:  108          0976  1 REQUIRE 'SRC$:PATPRE.REQ';
:  109          1139  1
:  110          1140  1 EXTERNAL ROUTINE
:  111          1141  1         PAT$FREEZ,                                              ! Routine to allocate a block of free storag
:  112          1142  1         PAT$FREEINIT,                                           ! Routine to initialize free storage
:  113          1143  1         PAT$RESET_DEF;                                          ! Sets up default mode settings
:  114          1144  1
:  115          1145  1 EXTERNAL
:  116          1146  1         PAT$GB_ECOLVL: BYTE,                                    ! ECO level for current patch
:  117          1147  1         PAT$GB_ERRNAME,                                         ! Logical error channel name
:  118          1148  1         PAT$GB_INPNAME,                                         ! Logical input channel name
:  119          1149  1         PAT$GB_OUTNAME,                                         ! Logical output channel name
:  120          1150  1         PAT$GL_CONTEXT: BITVECTOR,                              ! PATCH command context bits
:  121          1151  1         PAT$GL_INPFAB: BLOCK [, BYTE],                          ! FAB for command input stream
:  122          1152  1         PAT$GL_INPRAB: BLOCK [, BYTE],                          ! RAB for command input stream
:  123          1153  1         PAT$GL_OUTFAB: BLOCK [, BYTE],                          ! FAB for command output stream
:  124          1154  1         PAT$GL_OUTRAB: BLOCK [, BYTE],                          ! RAB for command output stream
:  125          1155  1         PAT$GL_ERRFAB: BLOCK [, BYTE],                          ! FAB for error messages
:  126          1156  1         PAT$GL_ERRRAB: BLOCK [, BYTE],                          ! RAB for error messages
:  127          1157  1         PAT$GL_SYMHEAD,                                         ! Listhead for user-defined symbol table
:  128          1158  1         PAT$GL_SYMTBPTR,                                        ! Pointer to default symbol table
:  129          1159  1         PAT$GL_OLDLABLS,                                        ! Listhead for old contents instruction labe
:  130          1160  1         PAT$GL_NEWLABLS,                                        ! Listhead for new contents un-relocated ins
:  131          1161  1         PAT$GL_RLCLABLS,                                        ! Listhead for newcontents relocated instruc
:  132          1162  1         PAT$GL_ERRCODE,                                         ! Error code
:  133          1163  1         PAT$GL_TXTFREE,                                         ! Pointer to next free byte in last text buf
:  134          1164  1         PAT$GL_TXTLHD : REF BLOCK[,BYTE],                       ! Pointer to first text buffer
:  135          1165  1         PAT$GL_TXTTAIL;                                         ! Pointer to last text buffer
:  136          1166  1
:  137          1167  1 EXTERNAL LITERAL
:  138          1168  1         PAT$K_ERRNAMLNG,                                        ! Length of error channel name
:  139          1169  1         PAT$K_OUTNAMLNG,                                        ! Length of output channel name
:  140          1170  1         PAT$K_INPNAMLNG,                                        ! Length of input channel name
:  141          1171  1 !
:  142          1172  1 ! Define shared message references.  (resolved a link time)
:  143          1173  1 !
:  144          1174  1         PAT$_CLOSEIN,                                           ! Error closing input file.
:  145          1175  1         PAT$_CLOSEOUT,                                          ! Error closing output file.
:  146          1176  1         PAT$_OPENIN,                                            ! Error opening input file.
:  147          1177  1         PAT$_OPENOUT,                                           ! Error opening output file.
:  148          1178  1         PAT$_READERR,                                           ! Error reading from file.
:  149          1179  1         PAT$_SYSERROR,                                          ! System Service error.
:  150          1180  1         PAT$_WRITEERR;                                          ! Error writing to file.
```

```
1 GLOBAL ROUTINE PAT$SET_CONTEXT : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       Initializes context bits that are necessary for command
1 !       processing. These bits are valid only during the processing
1 !       of a single command. They are all reset after each command.
1 !
1 ! CALLING SEQUENCE:
1 !
1 !       PAT$SET_CONTEXT ()
1 !
1 ! INPUTS:
1 !
1 !       none
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       The names of the context bits that are to be turned off.
1 !
1 ! OUTPUTS:
1 !
1 !       none
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       none
1 !
1 ! ROUTINE VALUE:
1 !
1 !       NOVALUE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       The context bits are set to FALSE.
1 !--
1
2 BEGIN
2
2 PAT$GL_CONTEXT [OVERRIDE] = FALSE;
2 PAT$GL_CONTEXT [MODE_BIT] = FALSE;
2 PAT$GL_CONTEXT [SET_NOT_ECO] = FALSE;
2 PAT$GL_CONTEXT [EXAMINE_BIT] = FALSE;
2 PAT$GL_CONTEXT [VERIFY_BIT] = FALSE;
2 PAT$GL_CONTEXT [INSERT_BIT] = FALSE;
2 PAT$GL_CONTEXT [DELETE_BIT] = FALSE;
2 PAT$GL_CONTEXT [SET_ECO] = FALSE;
2 PAT$GL_CONTEXT [SCOPE_BIT] = FALSE;
2 PAT$GL_CONTEXT [MODULE_BIT] = FALSE;
2 PAT$GL_CONTEXT [ALIGN_LONG] = FALSE;
2 PAT$GL_CONTEXT [ALIGN_WORD] = FALSE;
2 PAT$GL_CONTEXT [ALIGN_QUAD] = FALSE;
2 PAT$GL_CONTEXT [ALIGN_BYTE] = FALSE;
2 PAT$GL_CONTEXT [ALIGN_PAGE] = FALSE;
2 PAT$GL_CONTEXT [PAT_AREA_BIT] = FALSE;
2 PAT$GL_CONTEXT [INST_SUBST] = FALSE;
```

```
;  209          1238  2 PAT$GL_CONTEXT [LITERAL_BIT] = FALSE;
;  210          1239  2 PAT$GL_CONTEXT [OPN_COM_FILE] = FALSE;
;  211          1240  2 PAT$GL_CONTEXT [I_HAT_SEEN] = FALSE;
;  212          1241  1 END;


                                                                   .TITLE  PATBAS
                                                                   .IDENT  \V04-000\

                                                          ISE$C_SIZE==        20
                                                          TXT$C_SIZE==        4
                                                          PAL$C_SIZE==        16
                                                          ASD$C_SIZE==        9
                                                          FWR$C_SIZE==        24
                                                                   .EXTRN  PAT$FREEZ, PAT$FREEINIT
                                                                   .EXTRN  PAT$RESET_DEF, PAT$GB_ECOLVL
                                                                   .EXTRN  PAT$GB_ERRNAME, PAT$GB_INPNAME
                                                                   .EXTRN  PAT$GB_OUTNAME, PAT$GL_CONTEXT
                                                                   .EXTRN  PAT$GL_INPFAB, PAT$GL_INPRAB
                                                                   .EXTRN  PAT$GL_OUTFAB, PAT$GL_OUTRAB
                                                                   .EXTRN  PAT$GL_ERRFAB, PAT$GL_ERRRAB
                                                                   .EXTRN  PAT$GL_SYMHEAD, PAT$GL_SYMTBPTR
                                                                   .EXTRN  PAT$GL_OLDLABLS
                                                                   .EXTRN  PAT$GL_NEWLABLS
                                                                   .EXTRN  PAT$GL_RLCLABLS
                                                                   .EXTRN  PAT$GL_ERRCODE, PAT$GL_TXTFREE
                                                                   .EXTRN  PAT$GL_TXTLHD, PAT$GL_TXTTAIL
                                                                   .EXTRN  PAT$K_ERRNAMLNG
                                                                   .EXTRN  PAT$K_OUTNAMLNG
                                                                   .EXTRN  PAT$K_INPNAMLNG
                                                                   .EXTRN  PAT$_CLOSEIN, PAT$_CLOSEOUT
                                                                   .EXTRN  PAT$_OPENIN, PAT$_OPENOUT
                                                                   .EXTRN  PAT$_READERR, PAT$_SYSERROR
                                                                   .EXTRN  PAT$_WRITEERR
                                                                   .WEAK   ACCESS_CHECK

                                                                   .PSECT  _PAT$CODE,NOWRT,2

                                                    0000 00000     .ENTRY  PAT$SET_CONTEXT, Save nothing                    ; 1181
                        00000000G  EF 07FD05FF   8F   CA 00002     BICL2   #134022655, PAT$GL_CONTEXT                       ; 1240
                                                      04 0000D     RET                                                      ; 1241

; Routine Size:  14 bytes,    Routine Base:  _PAT$CODE + 0000
```

```
1 GLOBAL ROUTINE PAT$INIT: NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       Sets up local context for PATCH.  If the logical devices SYS$INPUT,
1 !       SYS$OUTPUT, or SYS$ERROR cannot be set up, the routine SIGNALS an error;
1 !       otherwise it returns.  Initializes symbol tables and PATCH command
1 !       text buffers.
1 !
1 ! CALLING SEQUENCE:
1 !
1 !       PAT$INIT()
1 !
1 ! INPUTS:
1 !
1 !       none
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       The FABs and RABs for input and output.
1 !       Addresses of context blocks that are to be set by the initialization.
1 !       PAT$GL_TXTFREE - Pointer to firsc free byte of text buffer in last block
1 !       PAT$GL_TXTLHD  - Pointer to first block of text buffer
1 !       PAT$GL_TXTTAIL - Pointer to last block of text buffer
1 !
1 ! OUT?UTS:
1 !
1 !       none
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       The communication channels are open.
1 !
1 ! ROUTINE VALUE:
1 !
1 !       NOVALUE
1 !
1 !
1 ! SIDE EFFECTS:
1 !
1 !       Context, input and output modes, etc. are set up.
1 !       The symbol table listheads are set up and the first block for
1 !       appended patch command text is allocated.
1 !--
1
2 BEGIN
2
2 ! Define local descriptors with file names for error signaling.
2 !
2
2 LOCAL
2     PAT$ERRNAM_DESC : VECTOR [2],
2     PAT$INPNAM_DESC : VECTOR [2],
2     PAT$OUTNAM_DESC : VECTOR [2];
2
2 PAT$ERRNAM_DESC [0] = PAT$K_ERRNAMLNG;
```

```
2 PAT$ERRNAM_DESC [1] = PAT$GB_ERRNAME;
2 PAT$INPNAM_DESC [0] = PAT$K_INPNAMLNG;
2 PAT$INPNAM_DESC [1] = PAT$GB_INPNAME;
2 PAT$OUTNAM_DESC [0] = PAT$K_OUTNAMLNG;
2 PAT$OUTNAM_DESC [1] = PAT$GB_OUTNAME;
2
2 !++
2 ! If the OPENs and CONNECTs cannot be done successfully for logical devices
2 ! SYS$ERROR, SYS$INPUT, and SYS$OUTPUT, then SIGNAL a fatal error.
2 ! This causes a return to the command line interpreter.
2 !--
2
2 PAT$GL_ERRCODE = $OPEN (FAB = PAT$GL_OUTFAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENOUT, 1, PAT$OUTNAM_DESC,
2                         .PAT$GL_OUTFAB[FAB$L_STS], .PAT$GL_OUTFAB[FAB$L_STV]);
2
2 PAT$GL_ERRCODE = $CONNECT (RAB = PAT$GL_OUTRAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENOUT, 1, PAT$OUTNAM_DESC,
2                         .PAT$GL_OUTRAB[RAB$L_STS], .PAT$GL_OUTRAB[RAB$L_STV]);
2
2 PAT$GL_ERRCODE = $OPEN (FAB = PAT$GL_ERRFAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENOUT, 1, PAT$ERRNAM_DESC,
2                 .PAT$GL_ERRFAB[FAB$L_STS], .PAT$GL_ERRFAB[FAB$L_STV]);
2
2 PAT$GL_ERRCODE = $CONNECT (RAB = PAT$GL_ERRRAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENOUT, 1, PAT$ERRNAM_DESC,
2                         .PAT$GL_ERRRAB[RAB$L_STS], .PAT$GL_ERRRAB[RAB$L_STV]);
2
2 PAT$GL_ERRCODE = $OPEN (FAB = PAT$GL_INPFAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENIN, 1, PAT$INPNAM_DESC,
2                         .PAT$GL_INPFAB[FAB$L_STS], .PAT$GL_INPFAB[FAB$L_STV]);
2
2 PAT$GL_ERRCODE = $CONNECT (RAB = PAT$GL_INPRAB);
2 IF NOT .PAT$GL_ERRCODE
2 THEN
2         SIGNAL_STOP (PAT$_OPENIN, 1, PAT$INPNAM_DESC,
2                         .PAT$GL_INPRAB[RAB$L_STS], .PAT$GL_INPRAB[RAB$L_STV]);
2
2
2 !++
2 ! Initialize an area of free storage, and give the name of the
2 ! PATCH error reporting mechanism as the name of the routine that
2 ! the free storage package can call to report errors.
2 !--
2 PAT$FREEINIT ();
2
2 !++
2 ! Set the default mode settings.
2 !--
2 PAT$RESET_DEF ();
2
2 !++
2 ! Set all the single command context bits to FALSE.  These bits
2 ! refer to context that is valid only during a single command,
2 ! not across multiple commands.
2 !--
2 PAT$SET_CONTEXT ();
2
2 !++
2 ! Initialize the symbol chain by allocating storage for the header
2 ! link and setting the pointers to point to the link.
2 !--
2 PAT$GL_SYMHEAD = PAT$FREEZ (OVERHEAD_SYM);
2 DLL_RLINK (.PAT$GL_SYMHEAD) = .PAT$GL_SYMHEAD;
2 DLL_LLINK (.PAT$GL_SYMHEAD) = .PAT$GL_SYMHEAD;
2 SYM_VALUE (.PAT$GL_SYMHEAD) = 0;
2 SYM_CSTRING (.PAT$GL_SYMHEAD) = 0;
2 PAT$GL_SYMTBPTR = .PAT$GL_SYMHEAD;
2
2 !++
2 ! Initialize the old contents label symbol chain by allocating storage for
2 ! the header link and setting the pointers to point to the link.
2 !--
2 PAT$GL_OLDLABLS = PAT$FREEZ (OVERHEAD_SYM);
2 DLL_RLINK (.PAT$GL_OLDLABLS) = .PAT$GL_OLDLABLS;
2 DLL_LLINK (.PAT$GL_OLDLABLS) = .PAT$GL_OLDLABLS;
2 SYM_VALUE (.PAT$GL_OLDLABLS) = 0;
2 SYM_CSTRING (.PAT$GL_OLDLABLS) = 0;
2
2 !++
2 ! Initialize the new contents un-relocated label symbol chain by allocating
2 ! storage for the header link and setting the pointers to point to the link.
2 !--
2 PAT$GL_NEWLABLS = PAT$FREEZ (OVERHEAD_SYM);
2 DLL_RLINK (.PAT$GL_NEWLABLS) = .PAT$GL_NEWLABLS;
2 DLL_LLINK (.PAT$GL_NEWLABLS) = .PAT$GL_NEWLABLS;
2 SYM_VALUE (.PAT$GL_NEWLABLS) = 0;
2 SYM_CSTRING (.PAT$GL_NEWLABLS) = 0;
2
2 !++
2 ! Initialize the new contents relocated label symbol chain by allocating
2 ! storage for the header link and setting the pointers to point to the link.
2 !--
2 PAT$GL_RLCLABLS = PAT$FREEZ (OVERHEAD_SYM);
2 DLL_RLINK (.PAT$GL_RLCLABLS) = .PAT$GL_RLCLABLS;
2 DLL_LLINK (.PAT$GL_RLCLABLS) = .PAT$GL_RLCLABLS;
2 SYM_VALUE (.PAT$GL_RLCLABLS) = 0;
2 SYM_CSTRING (.PAT$GL_RLCLABLS) = 0;
2
2 !++
2 ! Allocate the first buffer for the appended patch command text and
2 ! initialize the pointers.
2 !--
2 PAT$GL_TXTLHD = PAT$FREEZ((A_PAGE + 3)/4);
```

```
;  385          1413  2 PAT$GL_TXTTAIL = .PAT$GL_TXTLHD;
;  386          1414  2 PAT$GL_TXTFREE = .PAT$GL_TXTLHD + TXT$C_SIZE;
;  387          1415  2
;  388          1416  2 !++
;  389          1417  2 ! Initialize the ECO level for this patch.  This ECO level byte is
;  390          1418  2 ! set to an ECO level by the "SET ECO" command and re-initialized by
;  391          1419  2 ! the "UPDATE" command.
;  392          1420  2 !--
;  393          1421  2 PAT$GB_ECOLVL = 0;
;  394          1422  2
;  395          1423  2 !++
;  396          1424  2 ! Initialization is complete and successful. Return TRUE.
;  397          1425  2 !--
;  398          1426  2 RETURN(TRUE);
;  399          1427  1 END;



                                                                          .EXTRN  SYS$OPEN, SYS$CONNECT

                                                       03FC 00000         .ENTRY  PAT$INIT, Save R2,R3,R4,R5,R6,R7,R8,R9       ; 1242
                                       59 00000000G  8F  D0 00002         MOVL    #PAT$_OPENIN, R9                             ;
                                       58 00000000G  EF  9E 00009         MOVAB   PAT$GL_TXTLHD, R8                            ;
                                       57 00000000G  00  9E 00010         MOVAB   SYS$CONNECT, R7                              ;
                                       56 00000000G  00  9E 00017         MOVAB   SYS$OPEN, R6                                 ;
                                       55 00000000G  8F  D0 0001E         MOVL    #PAT$_OPENOUT, R5                            ;
                                       54 00000000G  EF  9E 00025         MOVAB   PAT$FREEZ, R4                                ;
                                       53 00000000G  00  9E 0002C         MOVAB   LIB$STOP, R3                                 ;
                                       52 00000000G  EF  9E 00033         MOVAB   PAT$GL_ERRCODE, R2                           ;
                                       5E            14  C2 0003A         SUBL2   #20, SP                                      ;
                                  0C   AE 00000000G  8F  D0 0003D         MOVL    #PAT$K_ERRNAMLNG, PAT$ERRNAM_DESC            ; 1298
                                  10   AE 00000000G  EF  9E 00045         MOVAB   PAT$GB_ERRNAME, PAT$ERRNAM_DESC+4            ; 1299
                                  04   AE 00000000G  8F  D0 0004D         MOVL    #PAT$K_INPNAMLNG, PAT$INPNAM_DESC            ; 1300
                                  08   AE 00000000G  EF  9E 00055         MOVAB   PAT$GB_INPNAME, PAT$INPNAM_DESC+4            ; 1301
                                          00000000G  8F  DD 0005D         PUSHL   #PAT$K_OUTNAMLNG                             ; 1302
                                  04   AE 00000000G  EF  9E 00063         MOVAB   PAT$GB_OUTNAME, PAT$OUTNAM_DESC+4            ; 1303
                                          00000000G  EF  9F 0006B         PUSHAB  PAT$GL_OUTFAB                                ; 1311
                                       66            01  FB 00071         CALLS   #1, SYS$OPEN                                 ;
                                       62            50  D0 00074         MOVL    R0, PAT$GL_ERRCODE                           ;
                                       11            62  E8 00077         BLBS    PAT$GL_ERRCODE, 1$                           ; 1312
                                       7E 00000000G  EF  7D 0007A         MOVQ    PAT$GL_OUTFAB+8, -(SP)                       ; 1315
                                                08   AE  9F 00081         PUSHAB  PAT$OUTNAM_DESC                              ; 1314
                                                     01  DD 00084         PUSHL   #1                                           ;
                                                     55  DD 00086         PUSHL   R5                                           ;
                                       63            05  FB 00088         CALLS   #5, LIB$STOP                                 ;
                                          00000000G  EF  9F 0008B 1$:     PUSHAB  PAT$GL_OUTRAB                                ; 1317
                                       67            01  FB 00091         CALLS   #1, SYS$CONNECT                              ;
                                       62            50  D0 00094         MOVL    R0, PAT$GL_ERRCODE                           ;
                                       11            62  E8 00097         BLBS    PAT$GL_ERRCODE, 2$                           ; 1318
                                       7E 00000000G  EF  7D 0009A         MOVQ    PAT$GL_OUTRAB+8, -(SP)                       ; 1321
                                                08   AE  9F 000A1         PUSHAB  PAT$OUTNAM_DESC                              ; 1320
                                                     01  DD 000A4         PUSHL   #1                                           ;
                                                     55  DD 000A6         PUSHL   R5                                           ;
                                       63            05  FB 000A8         CALLS   #5, LIB$STOP                                 ;
                                          00000000G  EF  9F 000AB 2$:     PUSHAB  PAT$GL_ERRFAB                                ; 1323
                                       66            01  FB 000B1         CALLS   #1, SYS$OPEN                                 ;
                                       62            50  D0 000B4         MOVL    R0, PAT$GL_ERRCODE                           ;
```

```
                11              62  E8 000B7        BLBS    PAT$GL_ERRCODE, 3$                    ; 1324
                7E  00000000G   EF  7D 000BA        MOVQ    PAT$GL_ERRFAB+8, -(SP)                ; 1327
                           18   AE  9F 000C1        PUSHAB  PAT$ERRNAM_DESC                       ; 1326
                                01  DD 000C4        PUSHL   #1                                    ;
                                55  DD 000C6        PUSHL   R5                                    ;
                63              05  FB 000C8        CALLS   #5, LIB$STOP                          ;
                    00000000G   EF  9F 000CB  3$:   PUSHAB  PAT$GL_ERRRAB                         ; 1329
                67              01  FB 000D1        CALLS   #1, SYS$CONNECT                       ;
                62              50  D0 000D4        MOVL    R0, PAT$GL_ERRCODE                    ;
                11              62  E8 000D7        BLBS    PAT$GL_ERRCODE, 4$                    ; 1330
                7E  00000000G   EF  7D 000DA        MOVQ    PAT$GL_ERRRAB+8, -(SP)                ; 1333
                           18   AE  9F 000E1        PUSHAB  PAT$ERRNAM_DESC                       ; 1332
                                01  DD 000E4        PUSHL   #1                                    ;
                                55  DD 000E6        PUSHL   R5                                    ;
                63              05  FB 000E8        CALLS   #5, LIB$STOP                          ;
                    00000000G   EF  9F 000EB  4$:   PUSHAB  PAT$GL_INPFAB                         ; 1335
                66              01  FB 000F1        CALLS   #1, SYS$OPEN                          ;
                62              50  D0 000F4        MOVL    R0, PAT$GL_ERRCODE                    ;
                11              62  E8 000F7        BLBS    PAT$GL_ERRCODE, 5$                    ; 1336
                7E  00000000G   EF  7D 000FA        MOVQ    PAT$GL_INPFAB+8, -(SP)                ; 1339
                           10   AE  9F 00101        PUSHAB  PAT$INPNAM_DESC                       ; 1338
                                01  DD 00104        PUSHL   #1                                    ;
                                59  DD 00106        PUSHL   R9                                    ;
                63              05  FB 00108        CALLS   #5, LIB$STOP                          ;
                    00000000G   EF  9F 0010B  5$:   PUSHAB  PAT$GL_INPRAB                         ; 1341
                67              01  FB 00111        CALLS   #1, SYS$CONNECT                       ;
                62              50  D0 00114        MOVL    R0, PAT$GL_ERRCODE                    ;
                11              62  E8 00117        BLBS    PAT$GL_ERRCODE, 6$                    ; 1342
                7E  00000000G   EF  7D 0011A        MOVQ    PAT$GL_INPRAB+8, -(SP)                ; 1345
                           10   AE  9F 00121        PUSHAB  PAT$INPNAM_DESC                       ; 1344
                                01  DD 00124        PUSHL   #1                                    ;
                                59  DD 00126        PUSHL   R9                                    ;
                63              05  FB 00128        CALLS   #5, LIB$STOP                          ;
00000000G  EF                   00  FB 0012B  6$:   CALLS   #0, PAT$FREEINIT                      ; 1353
00000000G  EF                   00  FB 00132        CALLS   #0, PAT$RESET_DEF                     ; 1358
     FEB4  CF                   00  FB 00139        CALLS   #0, PAT$SET_CONTEXT                   ; 1365
                                04  DD 0013E        PUSHL   #4                                    ; 1371
                64              01  FB 00140        CALLS   #1, PAT$FREEZ                         ;
00000000G  EF                   50  D0 00143        MOVL    R0, PAT$GL_SYMHEAD                    ;
                60              50  D0 0014A        MOVL    R0, (R0)                              ; 1372
       04  A0                   50  D0 0014D        MOVL    R0, 4(R0)                             ; 1373
                           08   A0  7C 00151        CLRQ    8(R0)                                 ; 1374
00000000G  EF                   50  D0 00154        MOVL    R0, PAT$GL_SYMTBPTR                   ; 1376
                                04  DD 0015B        PUSHL   #4                                    ; 1382
                64              01  FB 0015D        CALLS   #1, PAT$FREEZ                         ;
00000000G  EF                   50  D0 00160        MOVL    R0, PAT$GL_OLDLABLS                   ;
                60              50  D0 00167        MOVL    R0, (R0)                              ; 1383
       04  A0                   50  D0 0016A        MOVL    R0, 4(R0)                             ; 1384
                           08   A0  7C 0016E        CLRQ    8(R0)                                 ; 1385
                                04  DD 00171        PUSHL   #4                                    ; 1392
                64              01  FB 00173        CALLS   #1, PAT$FREEZ                         ;
00000000G  EF                   50  D0 00176        MOVL    R0, PAT$GL_NEWLABLS                   ;
                60              50  D0 0017D        MOVL    R0, (R0)                              ; 1393
       04  A0                   50  D0 00180        MOVL    R0, 4(R0)                             ; 1394
                           08   A0  7C 00184        CLRQ    8(R0)                                 ; 1395
                                04  DD 00187        PUSHL   #4                                    ; 1402
                64              01  FB 00189        CALLS   #1, PAT$FREEZ                         ;
```

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                            00000000G  EF            50  D0 0018C         MOVL    R0, PAT$GL_RLCLABLS                          ;
                                       60            50  D0 00193         MOVL    R0, (R0)                                     ; 1403
                                  04   A0            50  D0 00196         MOVL    R0, 4(R0)                                    ; 1404
                                                08   A0  7C 0019A         CLRQ    8(R0)                                        ; 1405
                                       7E       80   8F  9A 0019D         MOVZBL  #128, -(SP)                                  ; 1412
                                       64            01  FB 001A1         CALLS   #1, PAT$FREEZ                                ;
                                       68            50  D0 001A4         MOVL    R0, PAT$GL_TXTLHD                            ;
                            00000000G  EF            68  D0 001A7         MOVL    PAT$GL_TXT[HD, PAT$GL_TXTTAIL                ; 1413
              00000000G  EF            68            04  C1 001AE         ADDL3   #4, PAT$GL_TXTLHD, PAT$GL_TXTFREE            ; 1414
                                          00000000G  EF  94 001B6         CLRB    PAT$GB_ECO[VL                                ; 1421
                                                         04 001BC         RET                                                  ; 1427

; Routine Size:  445 bytes,    Routine Base:  _PAT$CODE + 000E
;  401          1428  1 END
;  402          1429  0 ELUDOM



                                                               .EXTRN  LIB$STOP

;                               PSECT SUMMARY
;
;      Name                    Bytes                     Attributes
;
;   _PAT$CODE                      459  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;   .  ABS  .                        0  NOVEC,NOWRT,NORD ,NOEXE,NOSHR,  LCL,  ABS,  CON,NOPIC,ALIGN(0)



;                            Library Statistics
;
;                                          -------- Symbols --------       Pages       Processing
;      File                                Total    Loaded   Percent       Mapped      Time
;
;   _$255$DUA28:[SYSLIB]STARLET.L32;1        9776        13         0        581         00:01.0




;                                COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/VARIANT:1/LIS=LIS$:PATBAS/OBJ=OBJ$:PATBAS MSRC$:PATBAS/UPDATE=(ENH$:PATBAS)

; Size:          459 code + 0 data bytes
; Run Time:         00:21.6
; Elapsed Time:     01:06.1
; Lines/CPU Min:     3962
; Lexemes/CPU-Min: 49258
; Memory Used:  188 pages
; Compilation Complete
```

0300 AH-BT13A-SE
VAX/VMS V4.0

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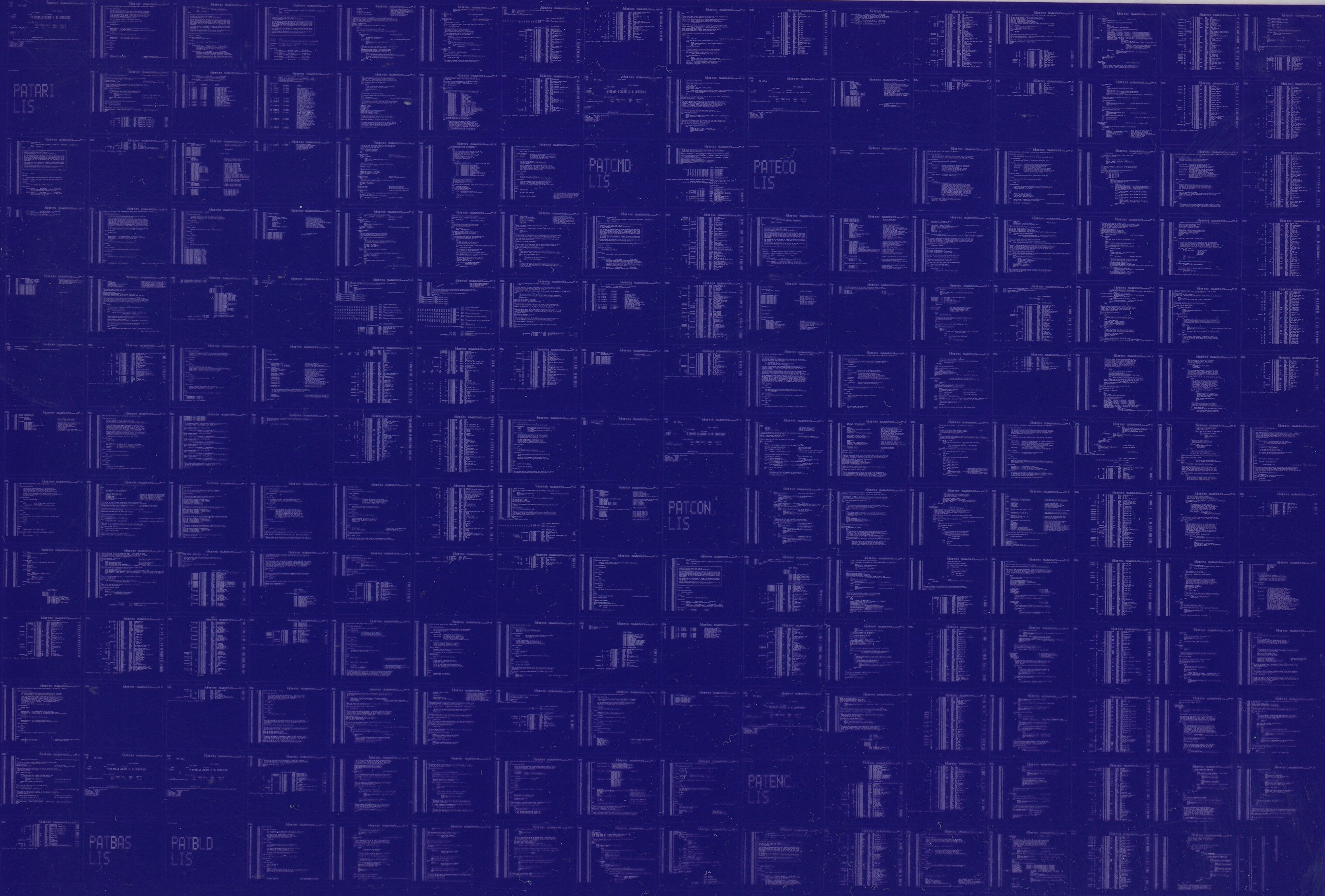

PATARI
LIS

PATCMD
LIS

PATECO
LIS

PATCON
LIS

PATENC
LIS

PATBAS
LIS

PATBLD
LIS