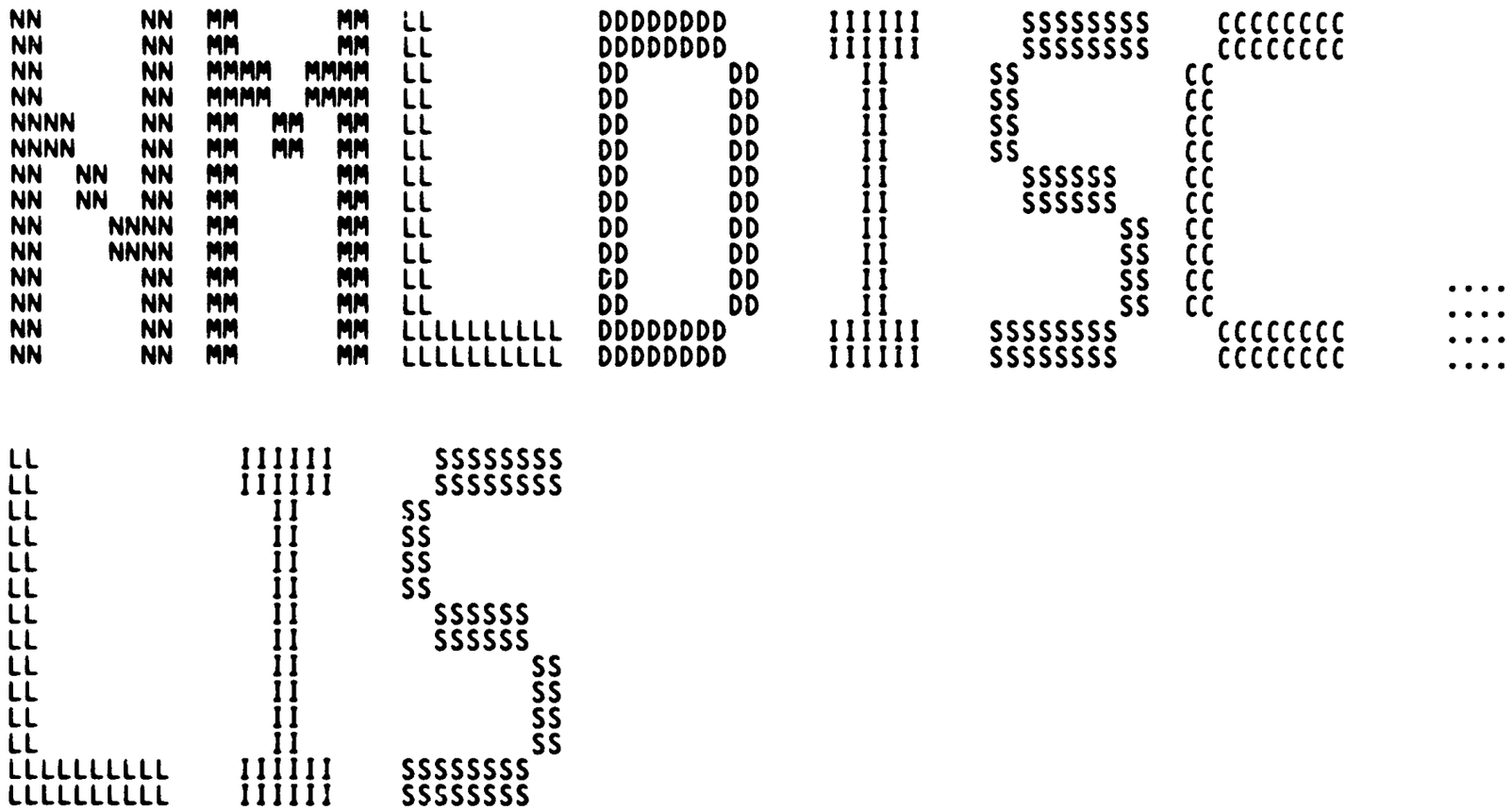
```
NNN           NNN   MMM           MMM   LLL
NNN           NNN   MMM           MMM   LLL
NNN           NNN   MMM           MMM   LLL
NNN           NNN   MMMMMM    MMMMMM   LLL
NNN           NNN   MMMMMM    MMMMMM   LLL
NNN           NNN   MMMMMM    MMMMMM   LLL
NNNNNN        NNN   MMM   MMM   MMM   LLL
NNNNNN        NNN   MMM   MMM   MMM   LLL
NNNNNN        NNN   MMM   MMM   MMM   LLL
NNN   NNN     NNN   MMM         MMM   LLL
NNN   NNN     NNN   MMM         MMM   LLL
NNN   NNN     NNN   MMM         MMM   LLL
NNN       NNNNNN   MMM         MMM   LLL
NNN       NNNNNN   MMM         MMM   LLL
NNN       NNNNNN   MMM         MMM   LLL
NNN           NNN   MMM         MMM   LLL
NNN           NNN   MMM         MMM   LLL
NNN           NNN   MMM         MMM   LLL
NNN           NNN   MMM         MMM   LLLLLLLLLLLLLLL
NNN           NNN   MMM         MMM   LLLLLLLLLLLLLLL
NNN           NNN   MMM         MMM   LLLLLLLLLLLLLLL
```

FILEID**NMLDISC



NML
V04

; R

```
;  1     0001  0 %TITLE 'NML Disconnect parameter module'
;  2     0002  0 MODULE NML$DISCONNECT (
;  3     0003  0                 LANGUAGE (BLISS32),
;  4     0004  0                 ADDRESSING_MODE (NONEXTERNAL=GENERAL),
;  5     0005  0                 ADDRESSING_MODE (EXTERNAL=GENERAL),
;  6     0006  0                 IDENT = 'V04-000'
;  7     0007  0                 ) =
;  8     0008  1 BEGIN
;  9     0009  1 !
; 10     0010  1 !**********************************************************************
; 11     0011  1 !*                                                                    *
; 12     0012  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                           *
; 13     0013  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.            *
; 14     0014  1 !*  ALL RIGHTS RESERVED.                                              *
; 15     0015  1 !*                                                                    *
; 16     0016  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  *
; 17     0017  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
; 18     0018  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
; 19     0019  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
; 20     0020  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
; 21     0021  1 !*  TRANSFERRED.                                                       *
; 22     0022  1 !*                                                                    *
; 23     0023  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
; 24     0024  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
; 25     0025  1 !*  CORPORATION.                                                       *
; 26     0026  1 !*                                                                    *
; 27     0027  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
; 28     0028  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
; 29     0029  1 !*                                                                    *
; 30     0030  1 !*                                                                    *
; 31     0031  1 !**********************************************************************
; 32     0032  1 !
; 33     0033  1
; 34     0034  1 !++
; 35     0035  1 ! FACILITY:  DECnet-VAX V2.0 Network Management Listener
; 36     0036  1 !
; 37     0037  1 ! ABSTRACT:
; 38     0038  1 !
; 39     0039  1 !       These routines process all NCP DISCONNECT commands.
; 40     0040  1 !
; 41     0041  1 ! ENVIRONMENT:  VAX/VMS Operating System
; 42     0042  1 !
; 43     0043  1 ! AUTHOR:  Kathy Perko
; 44     0044  1 !
; 45     0045  1 ! CREATION DATE:  ó-Sept-1981
; 46     0046  1 !
; 47     0047  1 ! MODIFIED BY:
; 48     0048  1 !
; 49     0049  1 !       V03-002 MKP0004         Kathy Perko     1-March-1983
; 50     0050  1 !               Fix DISC LINKS so it returns an EOF message if no
; 51     0051  1 !               links were disconnected.
; 52     0052  1 !
; 53     0053  1 !       V03-001 MKP0003         Kathy Perko     7-May-1982
; 54     0054  1 !               Add double search key to DISCONNECT KNOWN LINKS WITH
; 55     0055  1 !               NODE <node name>.
; 56     0056  1 !
; 57     0057  1 !       V02-003 MKP0002         Kathy Perko     25-Oct-1981
```

```
;    58          0058  1 !                Change single link disconnect so no node name
;    59          0059  1 !                is required in the NICE command.
;    60          0060  1 !
;    61          0061  1 !        V02-002 MKP0001         Kathy Perko     18-Sept-1981
;    62          0062  1 !                Fix NML$DISCKNOWN so that if a link goes away
;    63          0063  1 !                between the read and the disconnect, no error
;    64          0064  1 !                is returned to NCP.
;    65          0065  1 !
;    66          0066  1 !--
;    67          0067  1
```

```
;    69          0068  1 %SBTTL 'Declarations'
;    70          0069  1
;    71          0070  1 !
;    72          0071  1 ! TABLE OF CONTENTS:
;    73          0072  1 !
;    74          0073  1
;    75          0074  1 FORWARD ROUTINE
;    76          0075  1     NML$DISCKNOWN       : NOVALUE,
;    77          0076  1     NML_GETLINKLIST,
;    78          0077  1     NML$DISCONNECT      : NOVALUE;
;    79          0078  1
;    80          0079  1 !
;    81          0080  1 ! INCLUDE FILES:
;    82          0081  1 !
;    83          0082  1
;    84          0083  1 LIBRARY 'LIB$:NMLLIB.L32';
;    85          0084  1 LIBRARY 'SHRLIB$:NMALIBRY.L32';
;    86          0085  1 LIBRARY 'SHRLIB$:NET.L32';
;    87          0086  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
;    88          0087  1
;    89          0088  1 !
;    90          0089  1 ! EXTERNAL REFERENCES:
;    91          0090  1 !
;    92          0091  1
;    93          0092  1 $NML_EXTDEF;
;    94          0093  1
;    95          0094  1 EXTERNAL ROUTINE
;    96          0095  1     NML$BLDP2,
;    97          0096  1     NML$BLD_REPLY,
;    98          0097  1     NML$GETEXEADR,
;    99          0098  1     NML$NETQIO,
;   100          0099  1     NML$SEND,
;   101          0100  1     NML$ERROR_1;
;   102          0101  1
```

```
;  104          0102  1
;  105          0103  1 OWN
;  106          0104  1         NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLEN, BYTE],
;  107          0105  1         NML$AB_ENTITY_BUF : BBLOCK [20];
;  108          0106  1
;  109          0107  1 BIND
;  110          0108  1         NML$Q_P2BFDSC = UPLIT (NML$K_P2BUFLEN, NML$T_P2BUFFER) : DESCRIPTOR;
;  111          0109  1
;  112          0110  1
```

```
;  114          0111  1 %SBTTL 'NML$DISCKNOWN  Disconnect known links'
;  115          0112  1 GLOBAL ROUTINE NML$DISCKNOWN (ENTITY, NODE_PST, NODE_LEN, NODE_ADR) : NOVALUE =
;  116          0113  1
;  117          0114  1 !++
;  118          0115  1 ! FUNCTIONAL DESCRIPTION:
;  119          0116  1 !
;  120          0117  1 !       This routine disconnects all links with all nodes or all links
;  121          0118  1 !       with a specified node.
;  122          0119  1 !
;  123          0120  1 ! FORMAT PARAMETERS:
;  124          0121  1 !       ENTITY          Internal NML entity code (NML$C_LINKS)
;  125          0122  1 !       NODE_PST        Parameter Semantic Table (PST) entry of node
;  126          0123  1 !                       (name or address) from which to disconnect links.
;  127          0124  1 !       NODE_LEN        Length of disconnect node ID.
;  128          0125  1 !       NODE_ADR        Address of disconnect node ID.
;  129          0126  1 !--
;  130          0127  1
;  131          0128  2 BEGIN
;  132          0129  2
;  133          0130  2 LOCAL
;  134          0131  2         NFB : REF BBLOCK,
;  135          0132  2         P2DSC   : DESCRIPTOR,
;  136          0133  2         STATUS,
;  137          0134  2         PTR,
;  138          0135  2         STRTFLG,
;  139          0136  2         LINK_CNT,               ! Count of links returned by NETACP in
;  140          0137  2                                 !       P4 buffer.
;  141          0138  2         STRDSC  : DESCRIPTOR,   ! Descriptor of link for NICE response msg.
;  142          0139  2         MSGSIZE;                ! Length of response message.
;  143          0140  2
;  144          0141  2 !
;  145          0142  2 ! NFB to disconnect a link.
;  146          0143  2 !
;  147        P 0144  2 $NFBDSC (DISC_LINK_NFBDSC, DELETE, , LLI
;  148        P 0145  2                 ,LLN,             ! Search key 1 = Link number, oper1 = eql
;  149        P 0146  2                 ,NFB$C_WILDCARD,! Search key 2 = wildcard, oper2 = neq
;  150          0147  2                 );
;  151          0148  2
;  152          0149  2 OWN
;  153          0150  2         NMLPID,
;  154          0151  2         GETLIST : BBLOCK [12]           ! $GETJPI list to get NML's PID.
;  155          0152  2                 INITIAL ( WORD (4,              ! Buffer length
;  156          0153  2                                 JPI$_PID),      ! Request PID
;  157          0154  2                         LONG (NMLPID,           ! Address to receive PID
;  158          0155  2                                 0)),            ! Don't need length.
;  159          0156  2         IOSB : $IOSB;
;  160          0157  2
;  161          0158  2 !
;  162          0159  2 ! Get PID for NML.  If NML is not running in the local node, it is
;  163          0160  2 ! talking to NCP via a logical link.  Therefore, don't disconnect
;  164          0161  2 ! that link.  Use the PID to tell which link is NML's link to NCP.
;  165          0162  2 !
;  166        P 0163  2 STATUS = $GETJPI (ITMLST = GETLIST,
;  167          0164  2                   IOSB = IOSB);
;  168          0165  2 IF NOT .STATUS OR
;  169          0166  2    NOT .IOSB [IOS$W_STATUS] THEN
;  170          0167  2         ! Signal an error.
```

```
;  171          0168  2          NML$ERROR_1 (NMA$C_STS_MPR);
;  172          0169  2
;  173          0170  2 !
;  174          0171  2 ! Set up the link ID descriptor for the NICE response message.
;  175          0172  2 ! The link ID consists of a byte of 0 followed by a word of the
;  176          0173  2 ! link number.
;  177          0174  2 !
;  178          0175  2 STRDSC [DSC$W_LENGTH] = 3;
;  179          0176  2 STRDSC [DSC$A_POINTER] = NML$AB_ENTITY_BUF;
;  180          0177  2 NML$AB_ENTITY_BUF<0,8> = 0;
;  181          0178  2 STRTFLG = FALSE;
;  182          0179  2 !
;  183          0180  2 ! Get a list of links to disconnect from NETACP.
;  184          0181  2 !
;  185          0182  2 WHILE NML_GETLINKLIST (.STRTFLG, NML$GQ_QIOBFDSC, LINK_CNT, .NMLPID,
;  186          0183  2                       .NODE_PST, .NODE_LEN, .NODE_ADR) DO
;  187          0184  3         BEGIN
;  188          0185  3         STRTFLG = TRUE;
;  189          0186  3         PTR = .NML$GQ_QIOBFDSC [DSC$A_POINTER];
;  190          0187  3         WHILE (LINK_CNT = .LINK_CNT - 1) GEQ 0 DO
;  191          0188  4                 BEGIN
;  192          0189  4                 NML$BLDP2 (0, ..PTR, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  193          0190  4                 !
;  194          0191  4                 ! Tell NETACP to disconnect the link.
;  195          0192  4                 !
;  196          0193  4                 STATUS = NML$NETQIO ( DISC_LINK_NFBDSC, P2DSC, 0, 0);
;  197          0194  4                 !
;  198          0195  4                 ! Build response message for disconnected link.
;  199          0196  4                 !
;  200          0197  4                 IF .STATUS THEN
;  201          0198  5                         BEGIN
;  202          0199  5                         NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  203          0200  5                         NML$AB_MSGBLOCK [MSB$B_CODE] = NML$_STS_SUC;
;  204          0201  5                         NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] = TRUE;
;  205          0202  4                         END;
;  206          0203  4                 CH$MOVE (2, .PTR, .STRDSC [DSC$A_POINTER] + 1);
;  207          0204  4                 !
;  208          0205  4                 ! If the link went away before it could be disconnected
;  209          0206  4                 ! don't build a response message for it.
;  210          0207  4                 !
;  211          0208  4                 IF .STATUS NEQ NML$_STS_CMP THEN
;  212          0209  5                         BEGIN
;  213          0210  5                         NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
;  214          0211  5                         NML$AB_MSGBLOCK [MSB$A_ENTITY] = STRDSC;
;  215          0212  5                         NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  216          0213  5                         NML$SEND (NML$AB_SNDBOFFER, .MSGSIZE);
;  217          0214  4                         END;
;  218          0215  4                 !
;  219          0216  4                 ! Advance pointer to next link in the buffer.
;  220          0217  4                 !
;  221          0218  4                 PTR = .PTR + 4;
;  222          0219  3                 END;
;  223          0220  2         END;
;  224          0221  2 !
;  225          0222  2 ! If no links were disconnected, return an error message.
;  226          0223  2 !
;  227          0224  2 IF NOT .NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] THEN
```

```
;  228          0225  3     BEGIN
;  229          0226  3     NML$AB_MSGBLOCK [MSB$L_FLAGS]  = MSB$M_DET_FLD;      ! Detail flag
;  230          0227  3     NML$AB_MSGBLOCK [MSB$B_CODE]   = NMA$C_STS_CMP;     ! Missing component status
;  231          0228  3     NML$AB_MSGBLOCK [MSB$W_DETAIL] = NMA$C_SENT_LNK;    ! Links
;  232          0229  3     NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  233          0230  3     NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;  234          0231  2     END;
;  235          0232  1 END;                        ! of NML$DISC_KNOWN_LINKS


                                                    .TITLE  NML$DISCONNECT NML Disconnect parameter module
                                                    .IDENT  \V04-000\

                                                    .PSECT  $PLIT$,NOWRT,NOEXE,2

                                    00000068  00000 P.AAA:  .LONG   104                                                    ;
                                    00000000' 00004         .ADDRESS NML$T_P2BUFFER                                        ;
                                    00000014  00008 P.AAB:  .LONG   20                                                     ;
                                    00000000' 0000C         .ADDRESS U.1                                                   ;

                                                    .PSECT  $OWN$,NOEXE,2

                                              00000 NML$T_P2BUFFER:
                                                    .BLKB   104
                                              00068 NML$AB_ENTITY_BUF:
                                                    .BLKB   20
                                           21 0007C ;_NFB
                                                    U.1:    .BYTE   33                                                     ;
                                           00 0007D         .BYTE   0                                                      ;
                                           08 0007E         .BYTE   8                                                      ;
                                           00 0007F         .BYTE   0                                                      ;
                                     08010012 00080         .LONG   134283282                                              ;
                                     00000001 00084         .LONG   1                                                      ;
                                           00 00088         .BYTE   0                                                      ;
                                           00 00089         .BYTE   0                                                      ;
                                         0000 0008A         .WORD   0                                                      ;
                                     00000000 0008C         .LONG   0                                                      ;
                                              00090 NMLPID:  .BLKB   4
                                    0319  0004 00094 GETLIST:.WORD   4, 793                                                 ;
                                     00000000' 00098        .ADDRESS NMLPID                                                ;
                                     00000000  0009C        .LONG   0                                                      ;
                                              00CA0 IOSB:    .BLKB   8

                                                    NML$Q_P2BFDSC=      P.AAA
                                                    U.2=                P.AAB
                                                    .EXTRN  NML$GB_EVTSRCTYP
                                                    .EXTRN  NML$GQ_EVTSRCDSC
                                                    .EXTRN  NML$GW_EVTCLASS
                                                    .EXTRN  NML$GB_EVTMSKTYP
                                                    .EXTRN  NML$GQ_EVTMSKDSC
                                                    .EXTRN  NML$GW_EVTSNKADR
                                                    .EXTRN  NML$GW_ACP_CHAN
                                                    .EXTRN  NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
                                                    .EXTRN  NML$AB_QIOBUFFER
                                                    .EXTRN  NML$GQ_QIOBFDSC
                                                    .EXTRN  NML$AB_EXEBUFFER
                                                    .EXTRN  NML$GL_EXEDATPTR
```

```
                                .EXTRN  NML$GQ_EXEDATDSC
                                .EXTRN  NML$GQ_EXEBFDSC
                                .EXTRN  NML$AB_RCVBUFFER
                                .EXTRN  NML$GQ_RCVBFDSC
                                .EXTRN  NML$AB_SNDBUFFER
                                .EXTRN  NML$GQ_SNDBFDSC
                                .EXTRN  NML$GL_RCVDATLEN
                                .EXTRN  NML$AB_CPTABLE, NML$AB_MSGBLOCK
                                .EXTRN  NML$AB_ENTITY_ID
                                .EXTRN  NML$AB_QUALIFIER_ID
                                .EXTRN  NML$AB_ENTITYDATA
                                .EXTRN  NML$AB_NML_NMV, NML$AB_PRMSEM
                                .EXTRN  NML$AB_RECBUF, NML$AL_ENTINFTAB
                                .EXTRN  NML$AL_PERMINFTAB
                                .EXTRN  NML$AW_PRM_DES, NML$GB_CMD_VER
                                .EXTRN  NML$GB_ENTITY_CODE
                                .EXTRN  NML$GB_ENTITY_FORMAT
                                .EXTRN  NML$GL_QUALIFIER_PST
                                .EXTRN  NML$GB_QUALIFIER_FORMAT
                                .EXTRN  NML$GB_FUNCTION
                                .EXTRN  NML$GB_INFO, NML$GB_OPTIONS
                                .EXTRN  NML$GL_PRMCODE, NML$GL_PRS_FLGS
                                .EXTRN  NML$GL_NML_ENTITY
                                .EXTRN  NML$GQ_NETNAMDSC
                                .EXTRN  NML$GQ_RECBFDSC
                                .EXTRN  NML$GW_PRMDESCNT
                                .EXTRN  NML$BLDP2, NML$BLD_REPLY
                                .EXTRN  NML$GETEXEADR, NML$NETQIO
                                .EXTRN  NML$SEND, NML$ERROR_1
                                .EXTRN  SYS$GETJPI

                                .PSECT  $CODE$,NOWRT,2

                        0FFC 00000      .ENTRY  NML$DISCKNOWN, Save R2,R3,R4,R5,R6,R7,R8,-      ; 0112
                                                R9,R10,R11
                5B 00000000G    00  9E 00002  MOVAB   NML$SEND, R11                            ;
                5A 00000000G    00  9E 00009  MOVAB   NML$AB_SNDBUFFER, R10                   ;
                59 00000000G    00  9E 00010  MOVAB   NML$BLD_REPLY, R9                      ;
                58 00000000G    00  9E 00017  MOVAB   NML$GL_PRS_FLGS, R8                    ;
                57 00000000'    00  9E 0001E  MOVAB   IOSB, R7                               ;
                56 00000000G    00  9E 00025  MOVAB   NML$AB_MSGBLOCK, R6                    ;
                5E                  18  C2 0002C  SUBL2   #24, SP                          ;
                                    7E  7C 0002F  CLRQ    -(SP)                             ; 0164
                                    57  DD 00031  PUSHL   R7                                ;
                            F4      A7  9F 00033  PUSHAB  GETLIST                           ;
                                    7E  7C 00036  CLRQ    -(SP)                             ;
                                    7E  D4 00038  CLRL    -(SP)                             ;
00000000G       00                  07  FB 0003A  CALLS   #7, SYS$GETJPI                   ;
                55                  50  D0 00041  MOVL    R0, STATUS                        ;
                03                  55  E9 00044  BLBC    STATUS, 1$                        ; 0165
                0A                  67  E8 00047  BLBS    IOSB, 2$                          ; 0166
                7E                  05  CE 0004A  1$:     MNEGL   #5, -(SP)                 ; 0168
00000000G       00                  01  FB 0004D  CALLS   #1, NML$ERROR_1                   ;
        08      AE                  03  B0 00054  2$:     MOVW    #3, STRDSC                ; 0175
        0C      AE          C8      A7  9E 00058  MOVAB   NML$AB_ENTITY_BUF, STRDSC+4       ; 0176
                            C8      A7  94 0005D  CLRB    NML$AB_ENTITY_BUF                 ; 0177
                                    54  D4 00060  CLRL    STRTFLG                           ; 0178
```

```
                  52          0C   AE   D0 00062        MOVL    STRDSC+4, R2                      ; 0203
                  7E          0C   AC   7D 00066 3$:    MOVQ    NODE_LEN, -(SP)                   ; 0183
                              08   AC   DD 0006A        PUSHL   NODE_PST                          ;
                              F0   A7   DD 0006D        PUSHL   NMLPID                            ; 0182
                              10   AE   9F 00070        PUSHAB  LINK_CNT                          ;
                       00000000G   00   9F 00073        PUSHAB  NML$GQ_QIOBFDSC                   ;
                                   54   DD 00079        PUSHL   STRTFLG                           ;
          00000000V   00           07   FB 0007B        CALLS   #7, NML_GETLINKLIST               ;
                      72           50   E9 00082        BLBC    R0, 7$                            ;
                      54           01   D0 00085        MOVL    #1, STRTFLG                       ; 0185
                      53 00000000G 00   D0 00088        MOVL    NML$GQ_QIOBFDSC+4, PTR            ; 0186
                                   6E   D7 0008F 4$:    DECL    LINK_CNT                          ; 0187
                                   D3   19 00091        BLSS    3$                                ;
                              10   AE   9F 00093        PUSHAB  P2DSC                             ; 0189
                       00000000'   00   9F 00096        PUSHAB  NML$Q_P2BFDSC                     ;
                                   7E   D4 0009C        CLRL    -(SP)                             ;
                      7E           01   CE 0009E        MNEGL   #1, -(SP)                         ;
                                   63   DD 000A1        PUSHL   (PTR)                             ;
                                   7E   D4 000A3        CLRL    -(SP)                             ;
          00000000G   00           06   FB 000A5        CALLS   #6, NML$BLDP2                     ;
                                   7E   7C 000AC        CLRQ    -(SP)                             ; 0193
                              18   AE   9F 000AE        PUSHAB  P2DSC                             ;
                       00000000'   00   9F 000B1        PUSHAB  U.2                               ;
          00000000G   00           04   FB 000B7        CALLS   #4, NML$NETQIO                    ;
                      55           50   D0 000BE        MOVL    R0, STATUS                        ;
                      09           55   E9 000C1        BLBC    STATUS, 5$                        ; 0197
                                   66   D4 000C4        CLRL    NML$AB_MSGBLOCK                   ; 0199
                 04   A6           01   90 000C6        MOVB    #1, NML$AB_MSGBLOCK+4             ; 0200
                      68           08   88 000CA        BISB2   #8, NML$GL_PRS_FLGS               ; 0201
                 01   A2           63   B0 000CD 5$:    MOVW    (PTR), 1(R2)                      ; 0203
           FFFFFFF0   8F           55   D1 000D1        CMPL    STATUS, #-16                      ; 0208
                                   18   13 000D8        BEQL    6$                                ;
                      66           10   88 000DA        BISB2   #16, NML$AB_MSGBLOCK              ; 0210
                 14   A6      08   AE   9E 000DD        MOVAB   STRDSC, NML$AB_MSGBLOCK+20        ; 0211
                              04   AE   9F 000E2        PUSHAB  MSGSIZE                           ; 0212
                                   56   DD 000E5        PUSHL   R6                                ;
                      69           02   FB 000E7        CALLS   #2, NML$BLD_REPLY                 ;
                              04   AE   DD 000EA        PUSHL   MSGSIZE                           ; 0213
                                   5A   DD 000ED        PUSHL   R10                               ;
                      6B           02   FB 000EF        CALLS   #2, NML$SEND                      ;
                      53           04   C0 000F2 6$:    ADDL2   #4, PTR                           ; 0218
                                   98   11 000F5        BRB     4$                                ; 0187
        1B            68           03   E0 000F7 7$:    BBS     #3, NML$GL_PRS_FLGS, 8$           ; 0224
                      66           02   D0 000FB        MOVL    #2, NML$AB_MSGBLOCK               ; 0226
                 04   A6           08   8E 000FE        MNEGB   #8, NML$AB_MSGBLOCK+4             ; 0227
                 08   A6           07   B0 00102        MOVW    #7, NML$AB_MSGBLOCK+8             ; 0228
                              04   AE   9F 00106        PUSHAB  MSGSIZE                           ; 0229
                                   56   DD 00109        PUSHL   R6                                ;
                      69           02   FB 0010B        CALLS   #2, NML$BLD_REPLY                 ;
                              04   AE   DD 0010E        PUSHL   MSGSIZE                           ; 0230
                                   5A   DD 00111        PUSHL   R10                               ;
                      6B           02   FB 00113        CALLS   #2, NML$SEND                      ;
                                        04 00116 8$:    RET                                       ; 0232

; Routine Size:  279 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  237          0233  1 %SBTTL 'NML_GETLINKLIST   Get a list of links to disconnect'
;  238          0234  1 ROUTINE NML_GETLINKLIST ( GET_STARTED, LISDSC, ENTRY_COUNT, NMLPID,
;  239          0235  1                         NODE_PST, NODE_LEN, NODE_ADR) =
;  240          0236  1
;  241          0237  1 !++
;  242          0238  1 ! FUNCTIONAL DESCRIPTION:
;  243          0239  1 !       This routine gets a bufferfull of currently active logical links
;  244          0240  1 !       from NETACP.  This bufferfull will be either known links or known
;  245          0241  1 !       links on a specified node.  The routine can be iteratively called
;  246          0242  1 !       to get more bufferfulls, until all links have been processed.
;  247          0243  1 !
;  248          0244  1 ! INPUTS:
;  249          0245  1 !       GET_STARTED     If false, this is the first call, so build
;  250          0246  1 !                       a new P2 buffer and start at the beginning
;  251          0247  1 !                       of the ACPs database.
;  252          0248  1 !       LISDSC          Address at which to return descriptor address
;  253          0249  1 !                       of the P4 buffer (which is full of links and
;  254          0250  1 !                       their PIDs.
;  255          0251  1 !       ENTRY_COUNT     Count of links in the P4 buffer.
;  256          0252  1 !       NMLPID          PID of NML process.  This link must be disconnected
;  257          0253  1 !                       last.
;  258          0254  1 !       NODE_PST        Parameter Semantic Table (PST) entry of node
;  259          0255  1 !                       (name or address) from which to disconnect links.
;  260          0256  1 !       NODE_LEN        Length of disconnect node ID.
;  261          0257  1 !       NODE_ADR        Address of disconnect node ID.
;  262          0258  1 !
;  263          0259  1 ! IMPLICIT INPUTS:
;  264          0260  1 !       NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER]   Set if links on a specified
;  265          0261  1 !                       node are to be returned.
;  266          0262  1 !       NML$GQ_ENTSTRDSC        Descriptor for node name or number.
;  267          0263  1 !
;  268          0264  1 !--
;  269          0265  1
;  270          0266  2 BEGIN
;  271          0267  2
;  272        P 0268  2 $NFBDSC ( GET_KNOWN_LINKS, SHOW, NFB$M_MULT OR NFB$M_ERRUPD, LLI
;  273        P 0269  2                   ,NFB$C_WILDCARD,        ! Search key 1 = wildcard, oper1 = eql
;  274        P 0270  2                   ,PID, NFB$C_OP_NEQ      ! Search key 2 = NML's PID, oper2 = neq
;  275        P 0271  2                   ,LLN                    ! Return link number
;  276          0272  2                   );
;  277          0273  2
;  278          0274  2 MAP
;  279          0275  2         NODE_PST: REF BBLOCK,
;  280          0276  2         GET_KNOWN_LINKS : DESCRIPTOR;
;  281          0277  2
;  282          0278  2 OWN
;  283          0279  2         P2_BUFFER : BBLOCK [NML$K_P2BUFLEN],
;  284          0280  2         P2DSC     : DESCRIPTOR;
;  285          0281  2
;  286          0282  2 BIND
;  287          0283  2         P2_BUF_DSC = UPLIT ( NML$K_P2BUFLEN, P2_BUFFER) : DESCRIPTOR;
;  288          0284  2
;  289          0285  2 LOCAL
;  290          0286  2         NFB     : REF BBLOCK,
;  291          0287  2         SEARCH_KEY_LEN,
;  292          0288  2         SEARCH_KEY_VAL,
;  293          0289  2         P3,
```

```
;  294          0290  2          STATUS,
;  295          0291  2          MSGSIZE;
;  296          0292  2
;  297          0293  2
;  298          0294  2  ! The first time this routine is called, GET_STARTED should be false.
;  299          0295  2  ! If so, build a P2 buffer with a search key with the node id, or
;  300          0296  2  ! a wildcard search key.  The search key tells NETACP which links
;  301          0297  2  ! to return.
;  302          0298  2  !
;  303          0299  2  IF NOT .GET_STARTED THEN
;  304          0300  3          BEGIN
;  305          0301  3          NFB = .GET_KNOWN_LINKS [DSC$A_POINTER];
;  306          0302  3          IF .NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] THEN
;  307          0303  3                  !
;  308          0304  3                  ! The NICE command was DISCONNECT KNOWN LINKS WITH
;  309          0305  3                  ! NODE <node id>.
;  310          0306  3                  !
;  311          0307  4                  BEGIN
;  312          0308  4                  SEARCH_KEY_LEN = .NODE_LEN;
;  313          0309  4                  NFB [NFB$L_SRCH_KEY] = .NODE_PST [PST$L_NFBID];
;  314          0310  4                  IF .SEARCH_KEY_LEN EQL 0 THEN
;  315          0311  4                          !
;  316          0312  4                          ! Set the search key up to be the node address.
;  317          0313  4                          !
;  318          0314  5                          BEGIN
;  319          0315  5                          SEARCH_KEY_VAL = .(.NODE_ADR) <0,16>;
;  320          0316  5                          IF .SEARCH_KEY_VAL EQL 0 THEN
;  321          0317  5                                  NML$GETEXEADR (SEARCH_KEY_VAL);
;  322          0318  5                          END
;  323          0319  4                  ELSE
;  324          0320  4                          !
;  325          0321  4                          ! Set the search key up to be the node name.
;  326          0322  4                          !
;  327          0323  4                          SEARCH_KEY_VAL = .NODE_ADR;
;  328          0324  4                  END
;  329          0325  3          ELSE
;  330          0326  3                  !
;  331          0327  3                  ! The NICE command was a DISCONNECT KNOWN LINKS.
;  332          0328  3                  ! Clear search key 1 and oper 1 in case a DISCONNECT
;  333          0329  3                  ! KNOWN LINKS WITH NODE <node id> was done previously.
;  334          0330  3                  !
;  335          0331  4                  BEGIN
;  336          0332  4                  NFB [NFB$L_SRCH_KEY] = 0;
;  337          0333  4                  NFB [NFB$B_OPER] = 0;
;  338          0334  4                  SEARCH_KEY_LEN = -1;
;  339          0335  4                  SEARCH_KEY_VAL = 0;
;  340          0336  3                  END;
;  341          0337  3          NML$BLDP2 (.SEARCH_KEY_LEN, .SEARCH_KEY_VAL, 0, .NMLPID,
;  342          0338  3                                          P2_BUF_DSC, P2DSC);
;  343          0339  2          END;
;  344          0340  2
;  345          0341  2  STATUS = NML$NETQIO ( GET_KNOWN_LINKS, P2DSC, P3, .LISDSC);
;  346          0342  2
;  347          0343  2  IF NOT .STATUS AND (.STATUS NEQ NML$_STS_CMP) THEN
;  348          0344  3          BEGIN
;  349          0345  3          NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  350          0346  3          $SIGNAL_MSG (NML$AB_SNDBUFFER, .MSGSIZE);
```

```
;  351          0347  2          END;
;  352          0348  2
;  353          0349  2 .ENTRY_COUNT = .(.P2DSC [DSC$A_POINTER]);
;  354          0350  2 RETURN .STATUS;
;  355          0351  2
;  356          0352  1 END;     ! of NML_GETLINKLIST


                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                                0000001C  00010 P.AAC:  .LONG   28                                                       ;
                                00000000' 00014         .ADDRESS U.3                                                    ;
                                00000068  00018 P.AAD:  .LONG   104                                                      ;
                                00000000' 0001C         .ADDRESS P2_BUFFER                                              ;

                                                .PSECT  $OWN$,NOEXE,2

                                      22  000A8 ;_NFB
                                          000A8 U.3:    .BYTE   34                                                       ;
                                      03  000A9         .BYTE   3                                                        ;
                                      08  000AA         .BYTE   8                                                        ;
                                      00  000AB         .BYTE   0                                                        ;
                                00000001  000AC         .LONG   1                                                        ;
                                08010015  000B0         .LONG   134283285                                                ;  :
                                      03  000B4         .BYTE   3                                                        ;
                                      00  000B5         .BYTE   0                                                        ;
                                    0000  000B6         .WORD   0                                                        ;
                                08010012  000B8         .LONG   134283282                                                ;
                                00000000  000BC         .LONG   0                                                        ;
                                          000C0         .BLKB   4                                                        ;
                                          000C4 P2_BUFFER:
                                                        .BLKB   104
                                          0012C P2DSC:  .BLKB   8

                                                U.4=                    P.AAC
                                                P2_BUF_DSC=             P.AAD


                                                .PSECT  $CODE$,NOWRT,2

                                          001C 00000 NML_GETLINKLIST:
                                                        .WORD   Save R2,R3,R4                                           ; 0234
                                      54 00000000'  00  9E 00002        MOVAB   GET_KNOWN_LINKS+4, R4                   ;
                                      53 00000000'  00  9E 00009        MOVAB   P2DSC, R3                               ;
                                      5E            0C  C2 00010        SUBL2   #12, SP                                 ;
                                      50        04  AC  E8 00013        BLBS    GET_STARTED, 4$                         ; 0299
                                      50            64  D0 00017        MOVL    GET_KNOWN_LINKS+4, NFB                  ; 0301
                            24 00000000G    00      02  E1 0001A        BBC     #2, NML$GL_PRS_FLGS, 2$                 ; 0302
                                      51        14  AC  7D 00022        MOVQ    NODE_PST, R1                            ; 0309
                                    04  A0        0C  A1  D0 00026        MOVL    12(R1), 4(NFB)                          ;
                                                  52  D5 0002B        TSTL    SEARCH_KEY_LEN                          ; 0310
                                                  11  12 0002D        BNEQ    1$                                      ;
                                      6E        1C  BC  3C 0002F        MOVZWL  @NODE_ADR, SEARCH_KEY_VAL               ; 0315
                                                  1C  12 00033        BNEQ    3$                                      ; 0316
                                                  5E  DD 00035        PUSHL   SP                                      ; 0317
                                00000000G       00      01  FB 00037        CALLS   #1, NML$GETEXEADR                       ;
```

```
                                  11    11 0003E          BRB     3$                                          ; 0310
                    6E       1C   AC    D0 00040 1$:      MOVL    NODE_ADR, SEARCH_KEY_VAL                    ; 0323
                                  0B    11 00044          BRB     3$                                          ; 0302
                             04   A0    D4 00046 2$:      CLRL    4(NFB)                                      ; 0332
                             03   A0    94 00049          CLRB    3(NFB)                                      ; 0333
                    52            01    CE 0004C          MNEGL   #1, SEARCH_KEY_LEN                          ; 0334
                                  6E    D4 0004F          CLRL    SEARCH_KEY_VAL                              ; 0335
                                  53    DD 00051 3$:      PUSHL   R3                                          ; 0337
                             04   A4    9F 00053          PUSHAB  P2_BUF_DSC                                  ;
                             10   AC    DD 00056          PUSHL   NML[PID                                     ;
                                  7E    D4 00059          CLRL    -(SP)                                       ;
                             10   AE    DD 0005B          PUSHL   SEARCH_KEY_VAL                              ;
                                  52    DD 0005E          PUSHL   SEARCH_KEY_LEN                              ;
           00000000G  00          06    FB 00060          CALLS   #6, NML[$BLDP2                              ;
                             08   AC    DD 00067 4$:      PUSHL   LISDSC                                      ; 0341
                             08   AE    9F 0006A          PUSHAB  P3                                          ;
                                  53    DD 0006D          PUSHL   R3                                          ;
                             FC   A4    9F 0006F          PUSHAB  GET_KNOWN_LINKS                             ;
           00000000G  00          04    FB 00072          CALLS   #4, NML$NETQIO                              ;
                      52          50    D0 00079          MOVL    R0, STATUS                                  ;
                      2F          52    E8 0007C          BLBS    STATUS, 5$                                  ; 0343
           FFFFFFF0   8F          52    D1 0007F          CMPL    STATUS, #-16                                ;
                      26          13    00086             BEQL    5$                                          ;
                             08   AE    9F 00088          PUSHAB  MSGSIZE                                     ; 0345
                     00000000G    00    9F 0008B          PUSHAB  NML$AB_MSGBLOCK                             ;
           00000000G  00          02    FB 00091          CALLS   #2, NML[$BLD_REPLY                          ;
                             08   AE    DD 00098          PUSHL   MSGSIZE                                     ; 0346
                     00000000G    00    9F 0009B          PUSHAB  NML$AB_SNDBUFFER                            ;
                     01F90000     8F    DD 000A1          PUSHL   #33095680                                   ;
           00000000G  00          03    FB 000A7          CALLS   #3, LIB$SIGNAL                              ;
                      50     04   A3    D0 000AE 5$:      MOVL    P2DSC+4, R0                                 ; 0349
                0C    BC          60    D0 000B2          MOVL    (R0), @ENTRY_COUNT                          ;
                      50          52    D0 000B6          MOVL    STATUS, R0                                  ; 0350
                                  04    000B9             RET                                                 ; 0352

; Routine Size:  186 bytes,    Routine Base:  $CODE$ + 0117
```

```
;  358          0353  1 %SBTTL 'NML$DISCONNECT  Disconnect single link'
;  359          0354  1 GLOBAL ROUTINE NML$DISCONNECT (ENTITY, LINK) : NOVALUE =
;  360          0355  1
;  361          0356  1 !++
;  362          0357  1 ! FUNCTIONAL DESCRIPTION:
;  363          0358  1 !
;  364          0359  1 !       This routine disconnects a sinlge link with the specified node.
;  365          0360  1 !
;  366          0361  1 ! FORMAL PARAMETERS:
;  367          0362  1 !
;  368          0363  1 !       ENTITY          NML$C_LINKS - Not used.
;  369          0364  1 !       LINK            Word-sized link address.
;  370          0365  1 !
;  371          0366  1 ! IMPLICIT INPUTS:
;  372          0367  1 !
;  373          0368  1 !       NML$GQ_ENTSTRDSC    Contains the node ID.
;  374          0369  1 !
;  375          0370  1 !--
;  376          0371  1
;  377          0372  2 BEGIN
;  378          0373  2
;  379          0374  2 MAP
;  380          0375  2         LINK : WORD;                                                                    65
;  381          0376  2
;  382        P 0377  2 $NFBDSC ( DISC_LINK_NFBDSC, DELETE, , LLI
;  383        P 0378  2                 ,LLN,             ! Search key one = link number, oper1 = eql
;  384        P 0379  2                 ,NFB$C_WILDCARD,! Search key two = wildcard, oper2 = eql
;  385          0380  2                 );
;  386          0381  2
;  387          0382  2 LOCAL
;  388          0383  2         STATUS,
;  389          0384  2         P2DSC,
;  390          0385  2         MSGSIZE;
;  391          0386  2
;  392          0387  2 !
;  393          0388  2 ! Build the P2 buffer to tell NETACP which link to disconnect.  Then,
;  394          0389  2 ! perform the disconnect.
;  395          0390  2 !
;  396          0391  2 NML$BLDP2 ( 0, .LINK, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  397          0392  2 IF NML$NETQIO (DISC_LINK_NFBDSC, P2DSC, 0, 0) THEN
;  398          0393  3     BEGIN
;  399          0394  3     NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  400          0395  3     NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
;  401          0396  2     END;
;  402          0397  2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
;  403          0398  2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
;  404          0399  2
;  405          0400  1 END;             ! of  NML$DISCONNECT


                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                                        00000014  00020 P.AAE:  .LONG   20                                      ;
                                        00000000' 00024         .ADDRESS U.5                                    ;

                                                        .PSECT  $OWN$,NOEXE,2
```

```
                              21  00134  ;_N^B
                                         U.5:     .BYTE    33                        ;
                              00  00135           .BYTE    0                         ;
                              08  00136           .BYTE    8                         ;
                              00  00137           .BYTE    0                         ;
                        08010012  00138           .LONG    134283282                 ;
                        00000001  0013C           .LONG    1                         ;
                              00  00140           .BYTE    0                         ;
                              00  00141           .BYTE    0                         ;
                            0000  00142           .WORD    0                         ;
                        00000000  00144           .LONG    0                         ;

                                         U.6=              P.AAE

                                                  .PSECT   $CODE$,NOWRT,2

                            0004  00000           .ENTRY   NMLSDISCONNECT, Save R2   ; 0354
        52 00000000G    00    9E  00002           MOVAB    NML$AB_MSGBLOCK, R2       ;
        5E              08    C2  00009           SUBL2    #8, SP                    ;
                        5E    DD  0000C           PUSHL    SP                        ; 0391
           00000000'    00    9F  0000E           PUSHAB   NML$Q_P2BFDSC             ;
                        7E    D4  00014           CLRL     -(SP)                     ;
        7E              01    CE  00016           MNEGL    #1, -(SP)                 ;
        7E        08    AC    3C  00019           MOVZWL   LINK, -(SP)               ;
                        7E    D4  0001D           CLRL     -(SP)                     ;
   00000000G  00        06    FB  0001F           CALLS    #6, NML$BLDP2             ;
                        7E    7C  00026           CLRQ     -(SP)                     ; 0392
                  08    AE    9F  00028           PUSHAB   P2DSC                     ;
           00000000'    00    9F  0002B           PUSHAB   U.6                       ;
   00000000G  00        04    FB  00031           CALLS    #4, NML$NETQIO            ;
              06        50    E9  00038           BLBC     R0, 1$                    ;
                        62    D4  0003B           CLRL     NML$AB_MSGBLOCK           ; 0394
         04   A2        01    90  0003D           MOVB     #1, NML$AB_MSGBLOCK+4     ; 0395
                  04    AE    9F  00041  1$:      PUSHAB   MSGSIZE                   ; 0397
                        52    DD  00044           PUSHL    R2                        ;
   00000000G  00        02    FB  00046           CALLS    #2, NML$BLD_REPLY         ;
                  04    AE    DD  0004D           PUSHL    MSGSIZE                   ; 0398
           00000000G    00    9F  00050           PUSHAB   NML$AB_SNDBUFFER          ;
   00000000G  00        02    FB  00056           CALLS    #2, NML$SEND              ;
                              04  0005D           RET                                ; 0400

; Routine Size:  94 bytes,    Routine Base:  $CODE$ + 01D1

;  406          0401  1
;  407          0402  1 END                            ! End of module
;  408          0403  1
;  409          0404  0 ELUDOM

                                                  .EXTRN   LIB$SIGNAL

;                                PSECT SUMMARY
```

```
;       Name                          Bytes                      Attributes
;
;   $OWN$                              328  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;   $PLIT$                              40  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;   $CODE$                             559  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                              Library Statistics
;
;                                        -------- Symbols --------      Pages      Processing
;       File                             Total    Loaded   Percent     Mapped     Time
;
;   _$255$DUA28:[NML.OBJ]NMLLIB.L32;1      341        43        12         27     00:00.1
;   _$255$DUA28:[SHRLIB]NMALIBRY.L32;1     887         4         0         47     00:00.2
;   _$255$DUA28:[SHRLIB]NET.L32;1         1279        12         0         63     00:00.3
;   _$255$DUA28:[SYSLIB]STARLET.L32;1     9776         6         0        581     00:03.3


;                                    COMMAND QUALIFIERS

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

; Size:          559 code + 368 data bytes
; Run Time:         00:15.5
; Elapsed Time:     00:42.0
; Lines/CPU Min:     1561
; Lexemes/CPU-Min: 14822
; Memory Used:  133 pages
; Compilation Complete
```

NMLFORWRD
LIS

NMLENTRY
LIS

NMLDEFINE
LIS

NMLFILEIO
LIS

NMLLIB
LIS

NMLINISTA
LIS

NMLDISC
LIS