J 6

```
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
```

_$

Ps

NP

NP

$G

$O

NP

PA

_L

```
**FILE**ID**NMLSET                                                L 11
```

```
NN      NN  MM      MM  LL            SSSSSSSS  EEEEEEEEEE  TTTTTTTTTT
NN      NN  MM      MM  LL            SSSSSSSS  EEEEEEEEEE  TTTTTTTTTT
NN      NN  MMMM  MMMM  LL          SS          EE              TT
NN      NN  MMMM  MMMM  LL          SS          EE              TT
NNNN    NN  MM  MM  MM  LL          SS          EE              TT
NNNN    NN  MM  MM  MM  LL          SS          EE              TT
NN  NN  NN  MM      MM  LL            SSSSSS    EEEEEEEE        TT
NN  NN  NN  MM      MM  LL            SSSSSS    EEEEEEEE        TT
NN    NNNN  MM      MM  LL                  SS  EE              TT
NN    NNNN  MM      MM  LL                  SS  EE              TT
NN      NN  MM      MM  LL                  SS  EE              TT          ....
NN      NN  MM      MM  LL                  SS  EE              TT          ....
NN      NN  MM      MM  LLLLLLLLLL  SSSSSSSS    EEEEEEEEEE      TT          ....
NN      NN  MM      MM  LLLLLLLLLL  SSSSSSSS    EEEEEEEEEE      TT          ....

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 %TITLE 'NML SET parameter module'
0 MODULE NML$SET (
0                 LANGUAGE (BLISS32),
0                 ADDRESSING_MODE (NONEXTERNAL=GENERAL),
0                 ADDRESSING_MODE (EXTERNAL=GENERAL),
0                 IDENT = 'V04-000'
0                 ) =
1 BEGIN
1 !
1 !****************************************************************************
1 !*                                                                          *
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1 !*                                                                          *
1 !*                                                                          *
1 !****************************************************************************
1 !
1
1 !++
1 ! FACILITY:  DECnet-VAX Network Management Listener
1 !
1 ! ABSTRACT:
1 !
1 !       These routines provide the operations necessary to perform all
1 !       NCP SET entity commands.
1 !
1 ! ENVIRONMENT:  VAX/VMS Operating System
1 !
1 ! AUTHOR:  Distributed Systems Software Engineering
1 !
1 ! CREATION DATE:  30-DEC-1979
1 !
1 ! MODIFIED BY:
1 !
1 !       V03-011 MKP0017         Kathy Perko     13-Aug-1984
1 !               For entities that have at least one required field,
1 !               don't do a SET ALL if the entity isn't in the permanent
1 !               database.
1 !
1 !       V03-010 MKP0016         Kathy Perko     25-Mar-1984
1 !               Fix SET LOGGING bug so events are added correctly.
1 !
```

```
1 !         V03-009 MKP0015         Kathy Perko     3-Feb-1984
1 !                 Add X25-Access Module support.
1 !
1 !         V03-008 MKP0014         Kathy Perko     4-Aug-1983
1 !                 Make changes to give the node permanent database multiple
1 !                 ISAM keys.  This speeds up accessint it.
1 !
1 !         V03-007 MKP0013         Kathy Perko     26-April-1983
1 !                 Add SET MODULE CONFIGURATOR ALL commands.
1 !
1 !         V03-006 MKP0012         Kathy Perko     23-Nov_1982
1 !                 Add module as a source for events.
1 !
1 !         V03-005 MKP0011         Kathy Perko     27-Oct-1982
1 !                 Enlarge NFB buffer used for SETs.
1 !
1 !         V03-004 MKP0010         Kathy Perko     14-Sept-1982
1 !                 For logging to the executor node, the sink node address is
1 !                 stored in the permanent database as zero.  This allows the
1 !                 logging permanent database to be transportable without logging
1 !                 events to the old executor.
1 !
1 !         V03-003 MKP0009         Kathy Perko     10-Sept-1982
1 !                 Put in fix so SET X25-PROTOCOL KNOWN GROUPS ALL works.
1 !
1 !         V03-002 MKP0008         Kathy Perko     23-June-1982
1 !                 Add support to handle X25-Protocol "active network" concept.
1 !                 Also, change qualifier handling to use the qualifier's
1 !                 Parameter Semantic Table (PST) entry address, instead of
1 !                 the qualifier's Network Management parameter code.
1 !                 Add X25 and X29 Server and Trace modules.
1 !
1 !         V03-001 MKP0007         Kathy Perko     28-April-1982
1 !                 Make changes to add second search key to QIO interface
1 !                 to NETACP.
1 !
1 !         V02-005 MKP0006         Kathy Perko     07-Feb-1982
1 !                 Repair previous fix to reinstate SET KNOWN LOGGING ALL.
1 !
1 !         V02-004 MKP0005         Kathy Perko     31-Jan-1982
1 !                 For SET KNOWN LOGGING commands, change NML so it will do the
1 !                 update if the sink has an entry in either the ESI or the
1 !                 EFI volatile database.
1 !
1 !         V02-004 MKP0004         Kathy Perko     17-Nov-1981
1 !                 Add circuits to logging event sources, and fix buffer
1 !                 overflow problem correctly (if not filters defined for
1 !                 a sink, error returned was buffer overflow).
1 !
1 !         V02-003 MKP0003         Kathy Perko     16-Nov-1981
1 !                 Undo the previous fix.  It's wrong.
1 !
1 !         V02-002 MKP0002         Kathy Perko     17-Sept-1981
1 !                 Fix SET KNOWN LOGGING ALL so that buffer overflow
1 !                 is not returned if no logging is defined for a sink.
1 !
1 !         V02-001 MKP0001         Kathy Perko     21-July-1981
```

```
;  115          0115  1 !                Add Circuit entity.
;  116          0116  1 !--
;  117          0117  1
;  119          0118  1 %SBTTL 'Declarations'
;  120          0119  1
;  121          0120  1 !
;  122          0121  1 ! TABLE OF CONTENTS:
;  123          0122  1 !
;  124          0123  1
;  125          0124  1 FORWARD ROUTINE
;  126          0125  1     NML$SETENTITY        : NOVALUE,
;  127          0126  1     NML$SETKNOLOG        : NOVALUE,
;  128          0127  1     NML$SETLOGGING       : NOVALUE,
;  129          0128  1     NML_SETLOGGING       : NOVALUE,
;  130          0129  1     NML_SETLOGALL        : NOVALUE,
;  131          0130  1     NML_ADDALLFIL,
;  132          0131  1     NML_SETENTITY,
;  133          0132  1     NML$SETLINE          : NOVALUE,
;  134          0133  1     NML$SETEXECUTOR      : NOVALUE,
;  135          0134  1     NML$SETKNOWN         : NOVALUE,
;  136          0135  1     NML$SETKNONODES      : NOVALUE,
;  137          0136  1     NML_SETKNOWN         : NOVALUE,
;  138          0137  1     NML_SETKNOWNALL      : NOVALUE,
;  139          0138  1     NML_SETEXE           : NOVALUE,
;  140          0139  1     NML_SETEXEALL        : NOVALUE,
;  141          0140  1     NML$SET_NI_CONFIG    : NOVALUE;
;  142          0141  1
;  143          0142  1 !
;  144          0143  1 ! INCLUDE FILES:
;  145          0144  1 !
;  146          0145  1
;  147          0146  1 LIBRARY 'LIB$:NMLLIB.L32';
;  148          0147  1 LIBRARY 'SHRLIB$:NMALIBRY.L32';
;  149          0148  1 LIBRARY 'SHRLIB$:NET.L32';
;  150          0149  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
;  151          0150  1
;  152          0151  1 !
;  153          0152  1 ! EQUATED SYMBOLS:
;  154          0153  1 !
;  155          0154  1
;  156          0155  1 !
;  157          0156  1 ! OWN STORAGE:
;  158          0157  1 !
;  159          0158  1
;  160          0159  1 !
;  161          0160  1 ! Buffers and descriptors.
;  162          0161  1 !
;  163          0162  1 OWN
;  164          0163  1     NML$T_PRMBUFFER  : VECTOR [NML$K_QIOBFLEN, BYTE], ! Parameter (scratch) buffer
;  165          0164  1     NML$T_NFBBUFFER  : VECTOR [NML$K_NFBBFLEN, BYTE], ! NFB QIO buffer
;  166          0165  1     NML$T_P2BUFFER   : VECTOR [NML$K_P2BUFLEN,  BYTE], ! P2 QIO buffer
;  167          0166  1     NML$T_ENTBUFFER  : VECTOR [NML$K_ENTBUFLEN, BYTE]; ! Entity buffer
;  168          0167  1
;  169          0168  1 BIND
;  170          0169  1     NML$Q_PRMBFDSC  = UPLIT (NML$K_QIOBFLEN, NML$T_PRMBUFFER)
;  171          0170  1                       : DESCRIPTOR,
;  172          0171  1     NML$Q_NFBBFDSC   = UPLIT (%ALLOCATION(NML$T_NFBBUFFER),  NML$T_NFBBUFFER)
;  173          0172  1                       : DESCRIPTOR,
;  174          0173  1     NML$Q_P2BFDSC   = UPLIT (%ALLOCATION(NML$T_P2BUFFER),  NML$T_P2BUFFER)
;  175          0174  1                       : DESCRIPTOR;
```

```
1 OWN
1       NML$Q_ENTBFDSC : DESCRIPTOR
1                        INITIAL (0, NML$T_ENTBUFFER);
1
1 !
1 ! EXTERNAL REFERENCES:
1 !
1
1 $NML_EXTDEF;
1
1 EXTERNAL LITERAL
1       NML$_BADEVTUPD,
1       NML$_NOSNKNOD;
1
1 EXTERNAL ROUTINE
1       NML$MATCHRECORD,
1       NMA$SEARCHFLD,
1       NML$ADDEVENTS,
1       NML$ADDFILTERS,
1       NML$BLDALLDES,
1       NML$BLDP2,
1       NML$BLD_REPLY,
1       NML$BLDSETQBF,
1       NML$CALL_NI_CONFIG,
1       NML$GETEXEID,
1       NML$GETINFTABS,
1       NML$GET_ENTITY_IDS,
1       NML$GETNXTEVT,
1       NML$GETNXTSNK,
1       NML$GETEXEADR,
1       NML$GETRECOWNER,
1       NML$GETTABLE,
1       NML$NETQIO,
1       NML$READ_KNOWN_NODE_REC,
1       NML$READRECORD,
1       NML$SAVEVENTS,
1       NML$SEND;
```

```
1 %SBTTL 'NML$SETENTITY  Set volatile database parameters'
1 GLOBAL ROUTINE NML$SETENTITY (ENTITY, ENTITY_LEN, ENTITY_ADR,
1                                  QUAL_PST, QUAL_LEN, QUAL_ADR) : NOVALUE =
1
1 !++
1 ! FUNCTIONAl DESCRIPTION:
1 !
1 !       This routine adds the specified parameters to the volatile data base
1 !       entry fcr the specified component.  The purpose of this routine is
1 !       to allow the same code (NML_CLEARENTITY, etc.) to be used for both
1 !       singular and plural entity operations.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       ENTITY          Entity type code.
1 !       ENTITY_LEN      Byte count of entity id string.
1 !       ENTITY_ADR      Address of entity id string.
1 !       QUAL_PST        Qualifier's Parameter Semantic Table address
1 !       QUAL_LEN        Qualifier length
1 !       QUAL_ADR        Qualifier address
1 !
1 ! SIDE EFFECTS:
1 !
1 !       A NICE response message is built and transmitted.
1 !
1 !--
1
2    BEGIN
2
2    LOCAL
2       MSGSIZE;
2
2 !
2 ! X25 Server and Trace, and X29 Server databases have only one entry.  So
2 ! always do a wildcard zero of these databases.
2 !
2 IF .ENTITY EQL NML$C_X25_SERV OR
2    .ENT'TY EQL NML$C_X29_SERV OR
2    .ENTITY EQL NML$C_TRACE THEN
2    ENTITY_LEN = -1;
2
2 !
2 ! Call the routine to process the entity.
2 !
2    NML_SETENTITY (.ENTITY, .ENTITY_LEN, .ENTITY_ADR,
2                   .QUAL_PST, .QUAL_LEN, .QUAL_ADR);
2 !
2 ! Build and signal the response message.
2 !
2    NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
2    NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
2
1    END;                               ! End of NML$SETENTITY

                                        .TITLE  NML$SET NML SET parameter module
                                        .IDENT  \V04-000\
                                         .PSECT  $PLIT$,NOWRT,NOEXE,2

000004B0  00000 P.AAA:  .LONG   1200                                        :
00000000' 00004         .ADDRESS NML$T_PRMBUFFER                            :
00000100  00008 P.AAB:  .LONG   256                                         :
00000000' 0000C         .ADDRESS NML$T_NFBBUFFER                            :
00000068  00010 P.AAC:  .LONG   104                                         :
00000000' 00014         .ADDRESS NML$T_P2BUFFER                             :

                        .PSECT  $OWN$,NOEXE,2

          00000 NML$T_PRMBUFFER:
                        .BLKB   1200
          004B0 NML$T_NFBBUFFER:
                        .BLKB   256
          005B0 NML$T_P2BUFFER:
                        .BLKB   104
          00618 NML$T_ENTBUFFER:
                        .BLKB   64
00000000  00658 NML$Q_ENTBFDSC:
                        .LONG   0                                           :
00000000' 0065C         .ADDRESS NML$T_ENTBUFFER                            :

                NML$Q_PRMBFDSC=     P.AAA
                NML$Q_NFBBFDSC=     P.AAB
                NML$Q_P2BFDSC=      P.AAC
                        .EXTRN  NML$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$_BADEVTUPD, NML$_NOSNKNOD
                                                                          .EXTRN  NML$MATCHRECORD
                                                                          .EXTRN  NMA$SEARCHFLD, NML$ADDEVENTS
                                                                          .EXTRN  NML$ADDFILTERS, NML$BLDALLDES
                                                                          .EXTRN  NML$BLDP2, NML$BLD_REPLY
                                                                          .EXTRN  NML$BLDSETQBF, NML$CALL_NI_CONFIG
                                                                          .EXTRN  NML$GETEXEID, NML$GETINFTABS
                                                                          .EXTRN  NML$GET_ENTITY_IDS
                                                                          .EXTRN  NML$GETNXTEVT, NML$GETNXTSNK
                                                                          .EXTRN  NML$GETEXEADR, NML$GETRECOWNER
                                                                          .EXTRN  NML$GETTABLE, NML$NETQIO
                                                                          .EXTRN  NML$READ_KNOWN_NODE_REC
                                                                          .EXTRN  NML$READRECORD, NML$SAVEVENTS
                                                                          .EXTRN  NML$SEND

                                                                          .PSECT  $CODE$,NOWRT,2

                                                       0000 00000         .ENTRY  NML$SETENTITY, Save nothing             ; 0213
                                      5E            04   C2 00002         SUBL2   #4, SP                                  :
                                      11       04   AC   D1 00005         CMPL    ENTITY, #17                             ; 0248
                                                    0C   13 00009         BEQL    1$                                      :
                                      15       04   AC   D1 0000B         CMPL    ENTITY, #21                             ; 0249
                                                    06   13 0000F         BEQL    1$                                      :
                                      13       04   AC   D1 00011         CMPL    ENTITY, #19                             ; 0250
                                                    04   12 00015         BNEQ    2$                                      :
                                  08  AC            01   CE 00017  1$:    MNEGL   #1, ENTITY_LEN                          ; 0251
                                      7E       14   AC   7D 0001B  2$:    MOVQ    QUAL_LEN, -(SP)                         ; 0257
                                      7E       0C   AC   7D 0001F         MOVQ    ENTITY_ADR, -(SP)                       ; 0256
                                      7E       04   AC   7D 00023         MOVQ    ENTITY, -(SP)                           :
                            00000000V 00            06   FB 00027         CALLS   #6, NML_SETENTITY                       :
                                                    5E   DD 0002E         PUSHL   SP                                      ; 0261
                                          00000000G 00   9F 00030         PUSHAB  NML$AB_MSGBLOCK                         :
                            00000000G 00            02   FB 00036         CALLS   #2, NML$BLD_REPLY                       :
                                                    6E   DD 0003D         PUSHL   MSGSIZE                                 ; 0262
                                          00000000G 00   9F 0003F         PUSHAB  NML$AB_SNDBUFFER                        :
                            00000000G 00            02   FB 00045         CALLS   #2, NML$SEND                            :
                                                         04 0004C         RET                                             ; 0264

; Routine Size:  77 bytes,    Routine Base:  $CODE$ + 0000
```

```
  1 %SBTTL 'NML$SETKNOLOG  Set parameters for known logging'
  1 GLOBAL ROUTINE NML$SETKNOLOG (ENTITY, DUM1, DUM2) : NOVALUE =
  1
  1 !++
  1 ! FUNCTIONAL DESCRIPTION:
  1 !
  1 !       Add parameters to KNOWN entries in the logging volatile data base.
  1 !
  1 ! FORMAL PARAMETERS:
  1 !
  1 !       ENTITY          Entity type code.
  1 !       DUM1            Not used.
  1 !       DUM2            Not used.
  1 !
  1 !--
  1
  2 BEGIN
  2
  2 !
  2 ! NFBs used to find out if NETACP already has entries in its database for
  2 ! each sink type.
  2 !
P 2     $NFBDSC     (ESINFB,        ! NFB descriptor label.
P 2                 SHOW,           ! Function code
P 2                 ,               ! No flags
P 2                 ESI,            ! ACP Data base ID
P 2                 SNK,,           ! Search key one ID = Sink type, oper1 = eql
P 2                 ,               ! Search key two ID = wildcard, oper2 = eql
  2                 );
  2
  2 LOCAL
  2     STATUS,
  2     P3,
  2     DUMDSC:     REF DESCRIPTOR,
  2     NFBDSC:     REF DESCRIPTOR,
  2     P2DSC : DESCRIPTOR,
  2     BLKDSC: DESCRIPTOR,
  2     SRCPTR,
  2     PTR;
  2 !
  2 ! KNOWN LOGGING ALL is defined by whatever is set in the permanent data base.
  2 !
  2 ! KNOWN LOGGING is defined by sink node. In otherwords:
  2 !       SET KNOWN LOG  updates the executor node logging.  This means updating
  2 ! the sink (ESI) and filter (EFI) volatile database entries which already
  2 ! exist for the executor.  Note that the ESI database applies to the
  2 ! executor node only.
  2 !       SET KNOWN LOGGING SINK NODE updates logging for the specified sink
  2 ! node.  This means updating the filter (EFI) volatile database entries which
  2 ! already exist for that node.
  2 !
  2 INCR SNK FROM NMA$C_SNK_CON TO NMA$C_SNK_MON DO
  3     BEGIN
  3     !
  3     ! If processing a SET KNOWN LOGGING ALL command, the logging set in the
  3     ! permanent database determines what gets set in the volatile database.
  3     !
```

```
3   IF .NML$GL_PRS_FLGS [NML$V_PRS_ALL]
3   THEN
3     NML_SETLOGALL (.SNK)
3   ELSE
3     !
3     ! Determine if there are any entries in the volatile database for this
3     ! sink node and sink (console, file, monitor).
3     !
4     BEGIN
4     STATUS = 0;
4     !
4     ! If the sink node is the executor node, check to see if there's
4     ! anything in the sink database.
4     !
4     IF .NML$GL_PRS_FLGS [NML$V_PRS_EXESNK] THEN
5       BEGIN
5       NML$BLDP2 (0, .SNK, -1, 0, NML$Q_P2BFDSC, P2DSC);
5       STATUS = NML$NETQIO (ESINFB, P2DSC, P3, NML$GQ_QIOBFDSC);
4       END;
4     !
4     ! If the sink node isn't the executor node, or there isn't anything in
4     ! the ESI database for the exec, check the filter (EFI) database for
4     ! this sink.
4     !
4     IF NOT .STATUS THEN
5       BEGIN
5       NML$GETINFTABS (NML$C_LOGGING, NML$C_EVENTS, NFBDSC, DUMDSC, 0);
5       NML$BLDP2 (0, .NML$GW_EVTSNKADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
5       !
5       ! Get events set for specified sink node.  Then search through the
5       ! source block of events to see if any of the events are specified
5       ! for the sink currently being processed.
5       !
5       IF NML$NETQIO (.NFBDSC, P2DSC, P3, NML$GQ_QIOBFDSC) THEN
6         BEGIN
6         PTR = .NML$GQ_QIOBFDSC [DSC$A_POINTER];
6         BLKDSC [DSC$W_LENGTH] = .(.PTR)<0,16>;
6         BLKDSC [DSC$A_POINTER] = .PTR + 2;
6         SRCPTR = 0;
6         !
6         ! If any of the events are for the sink I am currently
6         ! working on, then do the SET for that sink.
6         !
6         STATUS = NML$GETNXTSNK (BLKDSC, .SNK, SRCPTR);
5         END;
4       END;
4     IF .STATUS THEN
4       !
4       ! Either the EFI or the ESI volatile database already has an entry
4       ! for this sink (File, console, or monitor).  So do the update.
4       !
4       NML$SETLOGGING (.ENTITY, .SNK, 0);
3     END;
2   END;
2
1 END;                             ! End of NML$SETKNOLOG
```

```
                                               .PSECT  $PLIT$,NOWRT,NOEXE,2

                        00000014  00018 P.AAD: .LONG   20                                        :
                        00000000' 0001C        .ADDRESS U.1                                      :

                                               .PSECT  $OWN$,NOEXE,2

                              22  00660 ;_NFB
                                        U.1:   .BYTE   34                                        :
                              00  00661        .BYTE   0                                         :
                              07  00662        .BYTE   7                                         :
                              00  00663        .BYTE   0                                         :
                        07010010  00664        .LONG   117506064                                 :
                        00000001  00668        .LONG   1                                         :
                              00  0066C        .BYTE   0                                         :
                              00  0066D        .BYTE   0                                         :
                            0000  0066E        .WORD   0                                         :
                        00000000  00670        .LONG   0                                         :

                                        U.2=               P.AAD

                                               .PSECT  $CODE$,NOWRT,2

                             01FC 00000        .ENTRY  NML$SETKNOLOG, Save R2,R3,R4,R5,R6,R7,R8   ; 0266
              58 00000000G  00  9E 00002        MOVAB   NML$NETQIO, R8                            :
              57 00000000G  00  9E 00009        MOVAB   NML$BLDP2, R7                             :
              56 00000000G  00  9E 00010        MOVAB   NML$GQ_QIOBFDSC, R6                       :
              55 00000000'  00  9E 00017        MOVAB   NML$Q_P2BFDSC, R5                         :
              5E            20  C2 0001E        SUBL2   #32, SP                                   :
              52            01  D0 00021        MOVL    #1, SNK                                   ; 0316
   0C 00000000G  00         01  E1 00024 1$:    BBC     #1, NML$GL_PRS_FLGS, 2$                   ; 0322
                            52  DD 0002C        PUSHL   SNK                                       ; 0324
      00000000V  00         01  FB 0002E        CALLS   #1, NML_SETLOGALL                         :
                          009B  31 00035        BRW     6$                                        :
                            54  D4 00038 2$:    CLRL    STATUS                                    ; 0331
              22 00000000G  00  E9 0003A        BLBC    NML$GL_PRS_FLGS+1, 3$                     ; 0336
                        18  AE  9F 00041        PUSHAB  P2DSC                                     ; 0338
                            55  DD 00044        PUSHL   R5                                        :
                            7E  D4 00046        CLRL    -(SP)                                     :
              7E            01  CE 00048        MNEGL   #1, -(SP)                                 :
                            52  DD 0004B        PUSHL   SNK                                       :
                            7E  D4 0004D        CLRL    -(SP)                                     :
              67            06  FB 0004F        CALLS   #6, NML$BLDP2                             :
                            56  DD 00052        PUSHL   R6                                        ; 0339
                        0C  AE  9F 00054        PUSHAB  P3                                        :
                        20  AE  9F 00057        PUSHAB  P2DSC                                     :
                        08  A5  9F 0005A        PUSHAB  ESINFB                                    :
              68            04  FB 0005D        CALLS   #4, NML$NETQIO                            :
              54            50  D0 00060        MOVL    R0, STATUS                                :
              5F            54  E8 00063 3$:    BLBS    STATUS, 5$                                ; 0346
                            7E  D4 00066        CLRL    -(SP)                                     ; 0348
                        04  AE  9F 00068        PUSHAB  DUMDSC                                    :
                        0C  AE  9F 0006B        PUSHAB  NFBDSC                                    :
                            04  DD 0006E        PUSHL   #4                                        :
```

```
                                                 01 DD 00070       PUSHL    #1                               ;
                        00000000G  00            05 FB 00072       CALLS    #5, NML$GETINFTABS               ;
                                            18   AE 9F 00079       PUSHAB   P2DSC                            ; 0349
                                                 55 DD 0007C       PUSHL    R5                               ;
                                                 7E D4 0007E       CLRL     -(SP)                            ;
                                   7E            01 CE 00080       MNEGL    #1, -(SP)                        ;
                                   7E 00000000G  00 3C 00083       MOVZWL   NML$GW_EVTSNKADR, -(SP)          ;
                                                 7E D4 0008A       CLRL     -(SP)                            ;
                                   67            06 FB 0008C       CALLS    #6, NML$BLDP2                    ;
                                                 56 DD 0008F       PUSHL    R6                               ; 0355
                                            0C   AE 9F 00091       PUSHAB   P3                               ;
                                            20   AE 9F 00094       PUSHAB   P2DSC                            ;
                                            10   AE DD 00097       PUSHL    NFBDSC                           ;
                                   68            04 FB 0009A       CALLS    #4, NML$NETQIO                   ;
                                   22            50 E9 0009D       BLBC     R0, 4$                           ;
                                   53       04   A6 D0 000A0       MOVL     NML$GQ_QIOBFDSC+4, PTR           ; 0357
                              10   AE            63 B0 000A4       MOVW     (PTR), BLKDSC                    ; 0358
                              14   AE       02   A3 9E 000A8       MOVAB    2(R3), BLKDSC+4                  ; 0359
                                            0C   AE D4 000AD       CLRL     SRCPTR                           ; 0360
                                            0C   AE 9F 000B0       PUSHAB   SRCPTR                           ; 0365
                                                 52 DD 000B3       PUSHL    SNK                              ;
                                            18   AE 9F 000B5       PUSHAB   BLKDSC                           ;
                        00000000G  00            03 FB 000B8       CALLS    #3, NML$GETNXTSNK                ;
                                   54            50 D0 000BF       MOVL     R0, STATUS                       ;
                                   0E            54 E9 000C2 4$:   BLBC     STATUS, 6$                       ; 0368
                                                 7E D4 000C5 5$:   CLRL     -(SP)                            ; 0373
                                                 52 DD 000C7       PUSHL    SNK                              ;
                                            04   AC DD 000C9       PUSHL    ENTITY                           ;
                        00000000V  00            03 FB 000CC       CALLS    #3, NML$SETLOGGING               ;
    FF4B            52             01            03 F1 000D3 6$:   ACBL     #3, #1, SNK, 1$                  ; 0316
                                                    04 000D9       RET                                       ; 0377

; Routine Size:  218 bytes,    Routine Base:  $CODE$ + 004D
```

```
1 %SBTTL 'NML$SETLOGGING  Set logging parameters'
1 GLOBAL ROUTINE NML$SETLOGGING (ENTITY, SNK, DUM2) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       Add parameters to the volatile data base entry for the specified
1 !       logging entity.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       ENTITY          Entity type code.
1 !       SNK             Logging sink type.
1 !       DUM2            Not used.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NML$GL_PRS_FLGS Message parsing flags.
1 !       NML$GW_EVTSNKADR Sink node address.
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       A NICE response message is built and transmitted.
1 !
1 !--
1
2     BEGIN
2
2     LOCAL
2         MSG_SIZE;                               ! Message size
2 !
2 ! Check the parsing flags to see if this is a SET ALL function.
2 !
2     IF .NML$GL_PRS_FLGS [NML$V_PRS_ALL]
2     THEN
2         NML_SETLOGALL (.SNK)
2     ELSE
3         BEGIN
3 !
3 ! Decide if the parameter group is for filters (EFI) or sinks (ESI).
3 !
3         IF .NML$GL_PRS_FLGS [NML$V_PRS_ESIPG]
3         THEN
3             NML_SETENTITY (NML$C_SINK, 1, SNK, 0, 0, 0)
3         ELSE
3             NML_SETLOGGING (.SNK, .NML$GW_EVTSNKADR);
3
2         END;
```

```
;  439          0435  2 !
;  440          0436  2 ! Add entity id (sink type code) to entity buffer.
;  441          0437  2 !
;  442          0438  2     NML$Q_ENTBFDSC [DSC$W_LENGTH] = 1;
;  443          0439  2     NML$Q_ENTBFDSC [DSC$A_POINTER] = NML$T_ENTBUFFER;
;  444          0440  2     NML$T_ENTBUFFER<0,8> = .SNK;
;  445          0441  2 !
;  446          0442  2 ! Add entity descriptor to message information.
;  447          0443  2 !
;  448          0444  2     NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
;  449          0445  2     NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
;  450          0446  2 !
;  451          0447  2 ! Build and send the message.
;  452          0448  2 !
;  453          0449  2     NML$BLD_REPLY (NML$AB_MSGBLOCK, MSG_SIZE);
;  454          0450  2     NML$SEND (NML$AB_SNDBUFFER, .MSG_SIZE); ! Send message
;  455          0451  2
;  456          0452  1     END;                                    ! End of NML$SETLOGGING



                                             000C 00000          .ENTRY  NML$SETLOGGING, Save R2,R3                                  ; 0379
                      53 00000000G  00    9E 00002          MOVAB   NML$AB_MSGBLOCK, R3                                         ;
                      52 00000000'  00    9E 00009          MOVAB   NML$Q_ENTBFDSC, R2                                          ;
                      5E            04    C2 00010          SUBL2   #4, SP                                                      ;
             0C 00000000G  00             01    E1 00013          BBC     #1, NML$GL_PRS_FLGS, 1$                                     ; 0420
                                  08      AC    DD 0001B          PUSHL   SNK                                                         ; 0422
                00000000V  00             01    FB 0001E          CALLS   #1, NML_SETLOGALL                                           ;
                                          2D    11 00025          BRB     3$                                                          ;
             14 00000000G  00             04    E1 00027 1$:      BBC     #4, NML$GL_PRS_FLGS+1, 2$                                   ; 0428
                                          7E    7C 0002F          CLRQ    -(SP)                                                       ; 0430
                                          7E    D4 00031          CLRL    -(SP)                                                       ;
                                  08      AC    9F 00033          PUSHAB  SNK                                                         ;
                                          01    DD 00036          PUSHL   #1                                                          ;
                                          02    DD 00038          PUSHL   #2                                                          ;
                00000000V  00             06    FB 0003A          CALLS   #6, NML_SETENTITY                                           ;
                                          11    11 00041          BRB     3$                                                          ;
                      7E 00000000G  00    3C 00043 2$:      MOVZWL  NML$GW_EVTSNKADR, -(SP)                                     ; 0432
                                  08      AC    DD 0004A          PUSHL   SNK                                                         ;
                00000000V  00             02    FB 0004D          CALLS   #2, NML_SETLOGGING                                          ;
                           62             01    B0 00054 3$:      MOVW    #1, NML$Q_ENTBFDSC                                          ; 0438
                   04      A2      C0     A2    9E 00057          MOVAB   NML$T_ENTBUFFER, NML$Q_ENTBFDSC+4                           ; 0439
                   C0      A2      08     AC    90 0005C          MOVB    SNK, NML$T_ENTBUFFER                                        ; 0440
                           63             10    88 00061          BISB2   #16, NML$AB_MSGBLOCK                                        ; 0444
                   14      A3             62    9E 00064          MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20                          ; 0445
                                4008      8F    BB 00068          PUSHR   #^M<R3,SP>                                                  ; 0449
                00000000G  00             02    FB 0006C          CALLS   #2, NML$BLD_REPLY                                           ;
                                          6E    DD 00073          PUSHL   MSG_SIZE                                                    ; 0450
                         00000000G  00    9F 00075          PUSHAB  NML$AB_SNDBUFFER                                            ;
                0000000(   )0             02    FB 0007B          CALLS   #2, NM[$SEND                                                ;
                                                04 00082          RET                                                                 ; 0452

; Routine Size:  131 bytes,    Routine Base:  $CODE$ + 0127
```

```
1 %SBTTL 'NML_SETLOGGING  Set logging parameters'
1 ROUTINE NML_SETLOGGING (SNK, SNKADR) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine performs common SET functions for both singular
1 !       and plural logging volatile data base operations.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       SNK             Logging sink type.
1 !       SNKADR          Sink node address.
1 !
1 !--
1
2    BEGIN
2
2    MAP
2       SNKADR : WORD;
2
2    LOCAL
2       DB,                             ! Database ID
2       SRCHKEY1,                       ! Search key one ID
2       SRCHKEY2,                       ! Search key two ID
2       DUMDSC : REF DESCRIPTOR,        ! Dummy descriptor for table
2       EVTADR,                         ! Address of event parameter
2       EVTLEN,                         ! Length of event parameter
2       NFBDSC : REF DESCRIPTOR,
2       P3,                             ! Byte count of data returned by NETACP.
2       P2DSC  : DESCRIPTOR,
2       QBFDSC : DESCRIPTOR,
2       RECDSC : DESCRIPTOR,
2       STATUS,
2       TABDES : REF DESCRIPTOR,
2       UPDFLG;                         ! Data base update flag
2
2    RECDSC [DSC$W_LENGTH] = 0;         ! Initial descriptor
2    RECDSC [DSC$A_POINTER] = .NML$GQ_RECBFDSC [DSC$A_POINTER];
2
2    NML$GETINFTABS (NML$C_LOGGING, NML$C_EVENTS, NFBDSC, DUMDSC, 0);
2    NML$BLDP2 (0, .SNKADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
2
2    STATUS = NML$NETQIO (.NFBDSC, P2DSC, P3, NML$GQ_QIOBFDSC);
2
3    IF NOT .STATUS AND (.STATUS NEQ NML$_STS_CMP)
2    THEN
2       RETURN;
2
2    IF .STATUS
2    THEN
3       BEGIN
3
3       EVTLEN = .(.NML$GQ_QIOBFDSC [DSC$A_POINTER])<0,16>;
3       EVTADR = .NML$GQ_QIOBFDSC [DSC$A_POINTER] + 2;
3
3       END
```

```
2      ELSE
2          !
2          ! There is no entry for this sink in NETACPs filter (EFI) database.
2          ! Create a null permanent data base entry to which the filter info
2          ! from the NICE command will be added.
2          !
3          BEGIN
3          EVTLEN = 0;
3          EVTADR = 0;
2          END;
2
2      IF NOT NML$SAVEVENTS (.NML$GQ_RECBFDSC [DSC$W_LENGTH],
2                            .EVTLEN,
2                            .EVTADR,
2                            RECDSC)
2      THEN
2          RETURN;
2  !
2  ! Add event to record.  If this fails then just return.  The error message
2  ! information will already be set up in the message block.
2  !
2      IF NOT NML$ADDEVENTS (TRUE, RECDSC, .SNK, .SNKADR, UPDFLG)
2      THEN
2          RETURN;
2
2      IF NOT .UPDFLG
2      THEN
3          BEGIN
3
3          NML$AB_MSGBLOCK [MSB$L_FLAGS] = MSB$M_MSG_FLD;
3          NML$AB_MSGBLOCK [MSB$B_CODE]  = NMA$C_STS_MPR;
3          NML$AB_MSGBLOCK [MSB$L_TEXT]  = NML$_BADEVTUPD;
3          RETURN;
3
2          END;
2  !
2  ! If event field was added successfully, then update the volatile data base.
2  !
2      DB = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$B_DATABASE];
2      SRCHKEY1 = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$L_SRCH_ID1];
2      SRCHKEY2 = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$L_SRCH_ID2];
2      TABDES = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$A_ALLTAB]; ! Table for SET
2  !
2  ! Build the QIO buffer.
2  !
2      NML$BLDALLDES (RECDSC, .TABDES);
2      NML$BLDSETQBF (NFB$C_FC_SET, .DB,
2                     .SRCHKEY1, 0, SNKADR,
2                     .SRCHKEY2, -1, 0,
2                     NML$Q_NFBBFDSC, NFBDSC,
2                     NML$Q_P2BFDSC, P2DSC,
2                     NML$GQ_QIOBFDSC, QBFDSC);
2  !
2  ! Set the event information into the volatile data base.
2  !
2      IF NML$NETQIO (NFBDSC, P2DSC, 0, QBFDSC)
2      THEN
```

```
:  572          0567  3           BEGIN
:  573          0568  3
:  574          0569  3           NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
:  575          0570  3           NML$AB_MSGBLOCK [MSB$B_CODE]  = NMA$C_STS_SUC;
:  576          0571  3
:  577          0572  2           END;
:  578          0573  2
:  579          0574  2       RETURN;
:  580          0575  2
:  581          0576  1       END;                                      ! End of NML_SETLOGGING
```

```
                           03FC 00000 NML_SETLOGGING:
                                              .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9                 ; 0454
           59 00000000G  00  9E 00002         MOVAB   NML$NETQIO, R9                               ;
           58 00000000G  00  9E 00009         MOVAB   NML$GQ_QIOBFDSC, R8                          ;
           57 00000000'  00  9E 00010         MOVAB   NML$Q_P2BFDSC, R7                            ;
           56 00000000G  00  9E 00017         MOVAB   NML$AB_ENTITYDATA+49, R6                     ;
           55 00000000G  00  9E 0001E         MOVAB   NML$AB_MSGBLOCK, R5                          ;
           5E            28  C2 00025         SUBL2   #40, SP                                      ;
                     10  AE  B4 00028         CLRW    RECDSC                                       ; 0490
      14   AE 00000000G  00  D0 0002B         MOVL    NML$GQ_RECBFDSC+4, RECDSC+4                  ; 0491
                         7E  D4 00033         CLRL    -(SP)                                        ; 0493
                     04  AE  9F 00035         PUSHAB  DUMDSC                                       ;
                     14  AE  9F 00038         PUSHAB  NFBDSC                                       ;
                         04  DD 0003B         PUSHL   #4                                           ;
                         01  DD 0003D         PUSHL   #1                                           ;
00000000G  00            05  FB 0003F         CALLS   #5, NML$GETINFTABS                           ;
                     20  AE  9F 00046         PUSHAB  P2DSC                                        ; 0494
                         57  DD 00049         PUSHL   R7                                           ;
                         7E  D4 0004B         CLRL    -(SP)                                        ;
           7E            01  CE 0004D         MNEGL   #1, -(SP)                                    ;
           7E        08  AC  3C 00050         MOVZWL  SNKADR, -(SP)                                ;
                         7E  D4 00054         CLRL    -(SP)                                        ;
00000000G  00            06  FB 00056         CALLS   #6, NML$BLDP2                                ;
                         58  DD 0005D         PUSHL   R8                                           ; 0496
                     08  AE  9F 0005F         PUSHAB  P3                                           ;
                     28  AE  9F 00062         PUSHAB  P2DSC                                        ;
                     18  AE  DD 00065         PUSHL   NFBDSC                                       ;
           69            04  FB 00068         CALLS   #4, NML$NETQIO                               ;
           0D            50  E8 0006B         BLBS    STATUS, 2$                                   ; 0498
FFFFFFF0   8F            50  D1 0006E         CMPL    STATUS, #-16                                 ;
                         01  13 00075         BEQL    1$                                           ;
                             04 00077         RE[                                                  ;
           09            50  E9 00078 1$:     BLBC    STATUS, 3$                                   ; 0502
           50        04  A8  D0 0007B 2$:     MOVL    NML$GQ_QIOBFDSC+4, R0                        ; 0506
           51            80  3C 0007F         MOVZWL  (R0)+, EVTLEN                                ;
                         02  11 00082         BRB     4$                                           ; 0502
                         50  7C 00084 3$:     CLRQ    EVTADR                                       ; 0518
                     10  AE  9F 00086 4$:     PUSHAB  RECDSC                                       ; 0521
                         50  DD 0(J89         PUSHL   EVTADR                                       ; 0523
                         51  DD 0008B         PUSHL   EVTLEN                                       ; 0522
           7E 00000000G  00  3C 0008D         MOVZWL  NML$GQ_RECBFDSC, -(SP)                       ; 0521
00000000G  00            04  FB 00094         CALLS   #4, NM[$SAVEVENTS                            ;
```

```
           7F                50 E9 0009B           BLBC    R0, 6$                                  ;
                      08     AE 9F 0009E           PUSHAB  UPDFLG                                  ; 0531
           7E         08     AC 3C 000A1           MOVZWL  SNKADR, -(SP)                           ;
                      04     AC DD 000A5           PUSHL   SNK                                     ;
                      1C     AE 9F 000A8           PUSHAB  RECDSC                                  ;
                             01 DD 000AB           PUSHL   #1                                      ;
00000000G  00                05 FB 000AD           CALLS   #5, NML$ADDEVENTS                       ;
           6F                50 E9 000B4           BLBC    R0, 7$                                  ;
           10         08     AE E8 000B7           BLBS    UPDFLG, 5$                              ; 0535
           65                04 D0 000BB           MOVL    #4, NML$AB_MSGBLOCK                     ; 0539
       04  A5                05 8E 000BE           MNEGB   #5, NML$AB_MSGBLOCK+4                   ; 0540
       0C  A5  00000000G     8F D0 000C2           MOVL    #NML$_BADEVTUPD, NML$AB_MSGBLOCK+12     ; 0541
                                04 000CA           RET                                             ; 0537
           54                66 9A 000CB 5$:       MOVZBL  NML$AB_ENTITYDATA+49, DB                ; 0548
           53         01     A6 D0 000CE           MOVL    NML$AB_ENTITYDATA+50, SRCHKEY1          ; 0549
           52         05     A6 D0 000D2           MOVL    NML$AB_ENTITYDATA+54, SRCHKEY2          ; 0550
           50         23     A6 D0 000D6           MOVL    NML$AB_ENTITYDATA+84, TABDES            ; 0551
                             50 DD 000DA           PUSHL   TABDES                                  ; 0555
                      14     AE 9F 000DC           PUSHAB  RECDSC                                  ;
00000000G  00                02 FB 000DF           CALLS   #2, NML$BLDALLDES                       ;
                      18     AE 9F 000E6           PUSHAB  QBFDSC                                  ; 0556
                             58 DD 000E9           PUSHL   R8                                      ;
                      28     AE 9F 000EB           PUSHAB  P2DSC                                   ;
                             57 DD 000EE           PUSHL   R7                                      ;
                      1C     AE 9F 000F0           PUSHAB  NFBDSC                                  ;
                      F8     A7 9F 000F3           PUSHAB  NML$Q_NFBBFDSC                          ;
                             7E D4 000F6           CLRL    -(SP)                                   ;
           7E                01 CE 000F8           MNEGL   #1, -(SP)                               ; 0558
                             52 DD 000FB           PUSHL   SRCHKEY2                                ;
                      08     AC 9F 000FD           PUSHAB  SNKADR                                  ; 0556
                             7E D4 00100           CLRL    -(SP)                                   ;
                             53 DD 00102           PUSHL   SRCHKEY1                                ; 0557
                             54 DD 00104           PUSHL   DB                                      ; 0556
                             23 DD 00106           PUSHL   #35                                     ;
00000000G  00                0E FB 00108           CALLS   #14, NML$BLDSETQBF                      ;
                      18     AE 9F 0010F           PUSHAB  QBFDSC                                  ; 0565
                             7E D4 00112           CLRL    -(SP)                                   ;
                      28     AE 9F 00114           PUSHAB  P2DSC                                   ;
                      18     AE 9F 00117           PUSHAB  NFBDSC                                  ;
           69                04 FB 0011A           CALLS   #4, NML$NETQIO                          ;
           06                50 E9 0011D 6$:       BLBC    R0, 7$                                  ;
                             65 D4 00120           CLRL    NML$AB_MSGBLOCK                         ; 0569
       04  A5                01 90 00122           MOVB    #1, NML$AB_MSGBLOCK+4                   ; 0570
                                04 00126 7$:       RET                                             ; 0576

; Routine Size:  295 bytes,    Routine Base:  $CODE$ + 01AA
```

```
1 %SBTTL 'NML_SETLOGALL  Set all logging parameters'
1 ROUTINE NML_SETLOGALL (SNK) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine sets all permanent parameters for the specified
1 !       logging sink type into the volatile data base.
1 !
1 !--
1
2 BEGIN
2
2 LOCAL
2     DB,                           ! Database ID
2     SRCHKEY1,                     ! Search key one ID
2     SRCHKEY2,                     ! Search key two ID
2     SINK_NODE_PTR,                ! Pointer to sink node address in NICE message.
2     SINK_NODE_ADD,                ! Sink node address from NICE message.
2     SINK_NODE_LEN,                ! Length of sink node address (2).
2     FID,                          ! File id code
2     KEY,
2     OWNER,                        ! Search key
2     NFBDSC : DESCRIPTOR,          ! NFB buffer descriptor
2     P2DSC  : DESCRIPTOR,          ! QIO P2 buffer descriptor
2     QBFDSC : DESCRIPTOR,          ! QIO P4 buffer descriptor
2     RECDSC : DESCRIPTOR,          ! Record descriptor
2     SETDSC : DESCRIPTOR,          ! Event parameter descriptor
2     STATUS,
2     TABDES : REF DESCRIPTOR,      ! Table for SET ALL
2     EXEC_ADDRESS;                 ! Address of executor node.
2 !
2 ! Get entity information.
2 !
2 DB     = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$B_DATABASE];
2 SRCHKEY1= .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$L_SRCH_ID1];
2 SRCHKEY2= .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$L_SRCH_ID2];
2 FID    = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$B_FILEID];
2 OWNER  = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$W_KEY];
2 TABDES = .NML$AB_ENTITYDATA [NML$C_LOGGING, EIT$A_ALLTAB];
2 !
2 ! The logging database is broken up into two databases -
2 !       - the Filter database (EFI) uses event filters to determine whether
2 !         or not a locally generated event is being logged and what sink
2 !         node to send it to for logging.
2 !       - the Sink database (ESI) is used by the sink node receiving the event
2 !         to determine if the sink type (file, console, monitor) is logging
2 !         events (sink state = on).
2 !
2 ! First, set the Sink database
2 !
2 IF NOT NML_SETENTITY (NML$C_SINK, 1, SNK, 0, 0, 0) THEN
2     RETURN;
2 !
2 ! Now set the Filter database parameters.
2 ! At this point, it is assumed that the logging permanent data base file
2 ! is open.
```

```
2 !
2 STATUS = NML$_STS_SUC;                           ! Initialize status
2 KEY = 0;                                         ! Start at beginning of file
2 NML$GETEXEADR (EXEC_ADDRESS);
2 !
2 ! Search through the logging file for entries in the Filter database.
2 ! There is one entry for each sink node.  From each sink node's entry,
2 ! extract all the event filters for the sink type currently being set.
2 ! Then issue a QIO to NETACP to set the events for the sink node and
2 ! sink in the volatile database.
2 !
2 WHILE NML$MATCHRECORD (.FID,
2                         NML$GQ_RECBFDSC,
2                         KEY,
2                         .OWNER,
2                         0, 0,    ! No entity length or id.
2                         0, 0, 0,        ! No qualifier
2                         RECDSC) DO
3     BEGIN
3     !
3     ! Get the record owner.  In the case of the logging filter database,
3     ! this is the sink node address.
3     !
3     SINK_NODE_PTR = 0;
3     STATUS = NMA$SEARCHFLD (RECDSC, .OWNER, SINK_NODE_LEN, SINK_NODE_PTR);
3     !
3     ! If no sink node address was found in the record then something is
3     ! wrong with this record in the file.
3     !
3     IF NOT .STATUS THEN
4         BEGIN
4         NML$AB_MSGBLOCK [MSB$L_FLAGS]  = MSB$M_DET_FLD OR MSB$M_MSG_FLD;
4         NML$AB_MSGBLOCK [MSB$B_CODE]   = NMA$C_STS_FCO;
4         NML$AB_MSGBLOCK [MSB$W_DETAIL] = NMA$C_FOPDTL_PDB;
4         NML$AB_MSGBLOCK [MSB$L_TEXT]   = NML$_NOSNKNOD;
4         RETURN;
3         END;
3     !
3     ! Find event parameter in record.  If it is not found then skip this
3     ! record.
3     !
3     SETDSC [DSC$A_POINTER] = 0;
3     STATUS = NMA$SEARCHFLD (RECDSC,
3                             NMA$C_PCLO_EVE,
3                             SETDSC [0,0,32,0],
3                             SETDSC [DSC$A_POINTER]);
3     IF .STATUS THEN
3         !
3         ! Build QIO buffer to tell NETACP what filters to put into the logging
3         ! database for this sink node.
3         !
4         BEGIN
4         !
4         ! If the sink node address in the permanent database record is zero,
4         ! then the sink node is the executor.  Find out the executor's real
4         ! address, and use that to specify the sink node to NETACP.
4         !
```

```
;  697          0691  4            SINK_NODE_ADD = .(.SINK_NODE_PTR)<0,16>;
;  698          0692  4            IF .SINK_NODE_ADD EQL 0 THEN
;  699          0693  4                SINK_NODE_ADD = .EXEC_ADDRESS;
;  700          0694  4            IF NML_ADDALLFIL (RECDSC, SETDSC, .SNK, .SINK_NODE_ADD) THEN
;  701          0695  5                BEGIN
;  702          0696  5                NML$BLDALLDES (RECDSC, .TABDES); ! Build parameter descriptors
;  703          0697  5                NML$BLDSETQBF (NFB$C_FC_SET, .DB,
;  704          0698  5                                .SRCHKEY1, 0, SINK_NODE_ADD,
;  705          0699  5                                .SRCHKEY2, -1, 0,
;  706          0700  5                                NML$Q_NFBBFDSC, NFBDSC,
;  707          0701  5                                NML$Q_P2BFDSC, P2DSC,
;  708          0702  5                                NML$GQ_QIOBFDSC, QBFDSC);
;  709          0703  5                !
;  710          0704  5                ! Add the parameters to volatile data base entry.
;  711          0705  5                !
;  712          0706  5                STATUS = NML$NETQIO (NFBDSC, P2DSC, 0, QBFDSC);
;  713          0707  5                IF NOT .STATUS THEN
;  714          0708  5                    EXITLOOP;
;  715          0709  4                END;
;  716          0710  4            END
;  717          0711  3        ELSE
;  718          0712  3            STATUS = NML$_STS_SUC;           ! Reset return status
;  719          0713  3
;  720          0714  3        KEY = .KEY + 1;                      ! Increment record key
;  721          0715  2        END;
;  722          0716  2  !
;  723          0717  2  ! If the operation was successful then set up the successful response
;  724          0718  2  ! message.
;  725          0719  2  !
;  726          0720  2  IF .STATUS THEN
;  727          0721  3      BEGIN
;  728          0722  3      NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
;  729          0723  3      NML$AB_MSGBLOCK [MSB$B_CODE]  = NMA$C_STS_SUC;
;  730          0724  2      END;
;  731          0725  2
;  732          0726  1  END;                               ! End of NML_SETLOGALL



                                          0FFC 00000 NML_SETLOGALL:
                                                            .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11           ; 0578
                         5B 00000000G   00  9E 00002        MOVAB   NMA$SEARCHFLD, R11                             ;
                         5A 00000000G   00  9E 00009        MOVAB   NML$AB_ENTITYDATA+49, R10                      ;
                         59 00000000G   00  9E 00010        MOVAB   NML$AB_MSGBLOCK, R9                            ;
                         5E             3C  C2 00017        SUBL2   #60, SP                                        ;
                         58             6A  9A 0001A        MOVZBL  NML$AB_ENTITYDATA+49, DB                       ; 0611
                         57        01   AA  D0 0001D        MOVL    NML$AB_ENTITYDATA+50, SRCHKEY1                 ; 0612
                         56        05   AA  D0 00021        MOVL    NML$AB_ENTITYDATA+54, SRCHKEY2                 ; 0613
                         55        FB   AA  9A 00025        MOVZBL  NML$AB_ENTITYDATA+44, FID                      ; 0614
                         53        FE   AA  3C 00029        MOVZWL  NML$AB_ENTITYDATA+47, OWNER                    ; 0615
                         54        23   AA  D0 0002D        MOVL    NML$AB_ENTITYDATA+84, TABDES                   ; 0616
                                        7E  7C 00031        CLRQ    -(SP)                                          ; 0628
                                        7E  D4 00033        CLRL    -(SP)                                          ;
                                   04   AC  9F 00035        PUSHAB  SNK                                            ;
                                        01  DD 00038        PUSHL   #1                                             ;
```

```
                           02 DD 0003A         PUSHL   #2                                         ;
00000000V  00              06 FB 0003C         CALLS   #6, NML_SETENTITY                          ;
           01              50 E8 00043         BLBS    R0, 1$                                     ;
                              04 00046         RET                                                ;
           52              01 D0 00047 1$:     MOVL    #1, STATUS                                 ; 0635
                      04   AE D4 0004A         CLRL    KEY                                        ; 0636
                           5E DD 0004D         PUSHL   SP                                         ; 0637
00000000G  00              01 FB 0004F         CALLS   #1, NML$GETEXEADR                          ;
                      1C   AE 9F 00056 2$:     PUSHAB  RECDSC                                     ; 0645
                           7E 7C 00059         CLRQ    -(SP)                                      ;
                           7E 7C 0005B         CLRQ    -(SP)                                      ;
                           7E D4 0005D         CLRL    -(SP)                                      ;
                           53 DD 0005F         PUSHL   OWNER                                      ; 0648
                      20   AE 9F 00061         PUSHAB  KEY                                        ; 0645
               00000000G   00 9F 00064         PUSHAB  NML$GQ_RECBFDSC                            ;
                           55 DD 0006A         PUSHL   FID                                        ;
00000000G  00              0A FB 0006C         CALLS   #10, NML$MATCHRECORD                       ;
           03              50 E8 00073         BLBS    R0, 3$                                     ;
                         00C7 31 00076         BRW     8$                                         ;
                      08   AE D4 00079 3$:     CLRL    SINK_NODE_PTR                              ; 0657
                      08   AE 9F 0007C         PUSHAB  SINK_NODE_PTR                              ; 0658
                      10   AE 9F 0007F         PUSHAB  SINK_NODE_LEN                              ;
                           53 DD 00082         PUSHL   OWNER                                      ;
                      28   AE 9F 00084         PUSHAB  RECDSC                                     ;
           6B              04 FB 00087         CALLS   #4, NMA$SEARCHFLD                          ;
           52              50 D0 0008A         MOVL    R0, STATUS                                 ;
           13              52 E8 0008D         BLBS    STATUS, 4$                                 ; 0663
           69              06 D0 00090         MOVL    #6, NML$AB_MSGBLOCK                        ; 0665
       04  A9              0E 8E 00093         MNEGB   #14, NML$AB_MSGBLOCK+4                     ; 0666
                      08   A9 B4 00097         CLRW    NML$AB_MSGBLOCK+8                          ; 0667
       0C  A9  00000000G   8F D0 0009A         MOVL    #NML$_NOSNKNOD, NML$AB_MSGBLOCK+12         ; 0668
                              04 000A2         RET                                                ; 0664
                      18   AE D4 000A3 4$:     CLRL    SETDSC+4                                   ; 0675
                      18   AE 9F 000A6         PUSHAB  SETDSC+4                                   ; 0679
                      18   AE 9F 000A9         PUSHAB  SETDSC                                     ; 0678
           7E         C9   8F 9A 000AC         MOVZBL  #201, -(SP)                                ; 0676
                      28   AE 9F 000B0         PUSHAB  RECDSC                                     ;
           6B              04 FB 000B3         CALLS   #4, NMA$SEARCHFLD                          ;
           52              50 D0 000B6         MOVL    R0, STATUS                                 ;
           7B              52 E9 000B9         BLBC    STATUS, 6$                                 ; 0680
       10  AE         08   BE 3C 000BC         MOVZWL  @SINK_NODE_PTR, SINK_NODE_ADD              ; 0691
                           04 12 000C1         BNEQ    5$                                         ; 0692
       10  AE              6E D0 000C3         MOVL    EXEC_ADDRESS, SINK_NODE_ADD                ; 0693
                      10   AE DD 000C7 5$:     PUSHL   SINK_NODE_ADD                              ; 0694
                      04   AC DD 000CA         PUSHL   SNK                                        ;
                      1C   AE 9F 000CD         PUSHAB  SETDSC                                     ;
                      28   AE 9F 000D0         PUSHAB  RECDSC                                     ;
00000000V  00              04 FB 000D3         CALLS   #4, NML_ADDALLFIL                          ;
           5D              50 E9 000DA         BLBC    R0, 7$                                     ;
                           54 DD 000DD         PUSHL   TABDES                                     ; 0696
                      20   AE 9F 000DF         PUSHAB  RECDSC                                     ;
00000000G  00              02 FB 000E2         CALLS   #2, NML$BLDALLDES                          ;
                      24   AE 9F 000E9         PUSHAB  QBFDSC                                     ; 0697
               00000000G   00 9F 000EC         PUSHAB  NML$GQ_QIOBFDSC                            ;
                      34   AE 9F 000F2         PUSHAB  P2DSC                                      ;
               00000000'   00 9F 000F5         PUSHAB  NML$Q_P2BFDSC                              ;
                      44   AE 9F 000FB         PUSHAB  NFBDSC                                     ;
```

```
                    00000000'       00 9F 000FE         PUSHAB   NML$Q_NFBBFDSC                     ;
                                    7E D4 00104         CLRL     -(SP)                              ;
                7E                  01 CE 00106         MNEGL    #1, -(SP)                          ; 0699
                                    56 DD 00109         PUSHL    SRCHKEY2                           ;
                              34    AE 9F 0010B         PUSHAB   SINK_NODE_ADD                      ; 0697
                                    7E D4 0010E         CLRL     -(SP)                              ;
                                    57 DD 00110         PUSHL    SRCHKEY1                           ; 0698
                                    58 DD 00112         PUSHL    DB                                 ; 0697
                                    23 DD 00114         PUSHL    #35                                ;
00000000G       00                  0E FB 00116         CALLS    #14, NML$BLDSETQBF                 ;
                              24    AE 9F 0011D         PUSHAB   QBFDSC                             ; 0706
                                    7E D4 00120         CLRL     -(SP)                              ;
                              34    AE 9F 00122         PUSHAB   P2DSC                              ;
                              40    AE 9F 00125         PUSHAB   NFBDSC                             ;
00000000G       00                  04 FB 00128         CALLS    #4, NML$NETQIO                     ;
                52                  50 D0 0012F         MOVL     R0, STATUS                         ;
                05                  52 E8 00132         BLBS     STATUS, 7$                         ; 0707
                                    09 11 00135         BRB      8$                                 ; 0708
                52                  01 D0 00137 6$:     MOVL     #1, STATUS                         ; 0712
                              04    AE D6 0013A 7$:     INCL     KEY                                ; 0714
                               FF16 31 0013D            BRW      2$                                 ; 0645
                06                  52 E9 00140 8$:     BLBC     STATUS, 9$                         ; 0720
                                    69 D4 00143         CLRL     NML$AB_MSGBLOCK                    ; 0722
           04   A9                  01 90 00145         MOVB     #1, NM[$AB_MSGBLOCK+4              ; 0723
                                       04 00149 9$:     RET                                         ; 0726

; Routine Size:  330 bytes,    Routine Base:  $CODE$ + 02D1
```

```
1 %SBTTL 'NML_ADDALLFIL  Add all logging filters'
1 ROUTINE NML_ADDALLFIL (RECDSC, SETDSC, SNK, SNKADR) =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine adds all permanent filters to the volatile filters
1 !       for the specified sink type and sink node.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       RECDSC          Descriptor of permanent data base record.
1 !       SETDSC          Descriptor of existing event parameter.
1 !       SNK             Logging sink type.
1 !       SNKADR          Sink node address.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NML$GB_EVTMSKTYP .
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       NONE
1 !
1 !--
1
2    BEGIN
2
2    MAP
2       RECDSC : REF DESCRIPTOR,
2       SETDSC : REF DESCRIPTOR,
2       SNKADR : WORD;
2
2    LOCAL
2       DUMDSC : REF DESCRIPTOR,
2       ENTDSC : DESCRIPTOR,
2       EVEDSC : DESCRIPTOR,
2       EVTPTR : REF BBLOCK,
2       NFBDSC : REF DESCRIPTOR,
2       P2DSC  : DESCRIPTOR,
2       SRCPTR : REF BBLOCK,
2       STATUS;
2
2 !
2 ! If there is an entry in the volatile data base then update it with the
2 ! permanent data base information.  If no entry exists then create one.
2 !
2    !
```

```
;  791         0784  2        ! Get the sink's entry in the volatile data base, if there is one.
;  792         0785  2        !
;  793         0786  2        NML$GETINFTABS (NML$C_LOGGING, NML$C_EVENTS, NFBDSC, DUMDSC, 0);
;  794         0787  2        NML$BLDP2 (0, .SNKADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
;  795         0788  2        STATUS = NML$NETQIO (.NFBDSC, P2DSC, 0, NML$GQ_QIOBFDSC);
;  796         0789  2
;  797         0790  2        IF .STATUS
;  798         0791  2        THEN
;  799         0792  3            BEGIN
;  800         0793  3            !
;  801         0794  3            ! Convert the volatile data base information into permanent data
;  802         0795  3            ! base format.  The filters from the permanent data base will be
;  803         0796  3            ! added to this.
;  804         0797  3            !
;  805         0798  3            EVEDSC [DSC$W_LENGTH] = .(.NML$GQ_QIOBFDSC [DSC$A_POINTER])<0,16>;
;  806         0799  3            EVEDSC [DSC$A_POINTER] = NML$T_PRMBUFFER;
;  807         0800  3
;  808         0801  3            CH$MOVE (.EVEDSC [DSC$W_LENGTH],
;  809         0802  3                     .NML$GQ_QIOBFDSC [DSC$A_POINTER] + 2,
;  810         0803  3                     NML$T_PRMBUFFER);
;  811         0804  3            END
;  812         0805  2        ELSE
;  813         0806  3            BEGIN
;  814         0807  3
;  815         0808  3            IF .STATUS EQL NML$_STS_CMP
;  816         0809  3            THEN
;  817         0810  4                BEGIN
;  818         0811  4                !
;  819         0812  4                ! Since there was no entry for the sink in the volatile data base,
;  820         0813  4                ! create a null permanent data base entry to which the filters
;  821         0814  4                ! from the permanent data base will be added.
;  822         0815  4                !
;  823         0816  4                EVEDSC [DSC$W_LENGTH] = 0;
;  824         0817  4                EVEDSC [DSC$A_POINTER] = NML$T_PRMBUFFER;
;  825         0818  4
;  826         0819  4                END
;  827         0820  3            ELSE
;  828         0821  3                RETURN .STATUS;
;  829         0822  3
;  830         0823  2            END;
;  831         0824  2  !
;  832         0825  2  ! Now go through the permenent data base record for this sink node and
;  833         0826  2  ! add the sink's filters to the volatile data base filters (which are now
;  834         0827  2  ! in permanent data base format).
;  835         0828  2  !
;  836         0829  2        STATUS = NML$_STS_PMS;
;  837         0830  2        SRCPTR = 0;
;  838         0831  2        WHILE NML$GETNXTSNK (.SETDSC, .SNK, SRCPTR) DO
;  839         0832  3            BEGIN
;  840         0833  3            STATUS = NML$_STS_SUC;            ! At least one new filter was found for
;  841         0834  3                                              ! sink.
;  842         0835  3  !
;  843         0836  3  ! Each event source type is handled differently.
;  844         0837  3  !
;  845         0838  3            SELECTONEU .SRCPTR [SRC$B_SRCTYPE] OF
;  846         0839  3                SET
;  847         0840  3
```

```
3              [NMA$C_ENT_CIR, NMA$C_ENT_LIN,       ! Circuit, Line or
3               NMA$C_ENT_MOD]:                     !       Module source
4                  BEGIN
4                  ENTDSC [DSC$W_LENGTH] = .SRCPTR [SRC$B_IDLENGTH];
4                  ENTDSC [DSC$A_POINTER] = SRCPTR [SRC$T_ID];
3                  END;
3
3              [NMA$C_ENT_NOD]:               ! Node source
4                  BEGIN
4                  ENTDSC [DSC$W_LENGTH] = 0;
4                  ENTDSC [DSC$A_POINTER] = .SRCPTR [SRC$W_NODADR];
3                  END;
3
3              [OTHERWISE]:                   ! Null source
4                  BEGIN
4                  ENTDSC [DSC$W_LENGTH] = 0;
4                  ENTDSC [DSC$A_POINTER] = 0;
3                  END;
3              TES;
3
3          NML$GB_EVTMSKTYP = 0;              ! Set to add individual filters
3          EVTPTR = 0;
3          WHILE NML$GETNXTEVT (.SRCPTR, EVTPTR) DO
4              BEGIN
4 !
4 ! Add all the SET filters.
4 !
4              STATUS = NML$ADDFILTERS (1,
4                                       NML$Q_PRMBFDSC,
4                                       .SNK,
4                                       .SRCPTR [SRC$B_SRCTYPE],
4                                       ENTDSC,
4                                       .EVTPTR [EVT$W_CLASS],
4                                       8,
4                                       EVTPTR [EVT$Q_LOGMSK],
4                                       EVEDSC);
4 !
4 ! If that was successful then add all the CLEAR filters.
4 !
4              IF .STATUS
4              THEN
4                  STATUS = NML$ADDFILTERS (0,
4                                           NML$Q_PRMBFDSC,
4                                           .SNK,
4                                           .SRCPTR [SRC$B_SRCTYPE],
4                                           ENTDSC,
4                                           .EVTPTR [EVT$W_CLASS],
4                                           8,
4                                           EVTPTR [EVT$Q_FILTERMSK],
4                                           EVEDSC);
4              IF NOT .STATUS
4              THEN
5                  BEGIN
5
5                  NML$AB_MSGBLOCK [MSB$L_FLAGS] = MSB$M_MSG_FLD;
5                  NML$AB_MSGBLOCK [MSB$B_CODE]  = NMA$C_STS_MPR;
5                  NML$AB_MSGBLOCK [MSB$L_TEXT]  = NML$_BADEVTUPD;
```

```
;  905          0898  5                 RETURN .STATUS;
;  906          0899  5
;  907          0900  4                 END;
;  908          0901  3             END;
;  909          0902  2         END;
;  910          0903  2 !
;  911          0904  2 ! If the permanent data base filter record contained at least one event
;  912          0905  2 ! filter for the sink,
;  913          0906  2 ! store the modified filters in the temporary data base record.  If there
;  914          0907  2 ! were no filters for the sink, no update will be done to the volatile
;  915          0908  2 ! data base.
;  916          0909  2 !
;  917          0910  2     IF .STATUS THEN
;  918          0911  2         STATUS = NML$SAVEVENTS (.NML$GQ_RECBFDSC [DSC$W_LENGTH],
;  919          0912  2                                 .EVEDSC [DSC$W_LENGTH],
;  920          0913  2                                 .EVEDSC [DSC$A_POINTER],
;  921          0914  2                                 .RECDSC);
;  922          0915  2     RETURN .STATUS
;  923          0916  1     END;                                    ! End of NML_ADDALLFIL



                                        07FC 00000 NML_ADDALLFIL:
                                                        .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10                  ; 0728
                  5A 00000000G    00   9E 00002          MOVAB   NML$ADDFILTERS, R10                               ;
                  59 00000000G    00   9E 00009          MOVAB   NML$AB_MSGBLOCK, R9                               ;
                  58 00000000'    00   9E 00010          MOVAB   NML$T_PRMBUFFER, R8                               ;
                  57 00000000'    00   9E 00017          MOVAB   NML$Q_PRMBFDSC, R7                                ;
                  5E              28   C2 0001E          SUBL2   #40, SP                                           ;
                                  7E   D4 00021          CLRL    -(SP)                                             ; 0786
                        04        AE   9F 00023          PUSHAB  DUMDSC                                            ;
                        0C        AE   9F 00026          PUSHAB  NFBDSC                                            ;
                                  04   DD 00029          PUSHL   #4                                                ;
                                  01   DD 0002B          PUSHL   #1                                                ;
        00000000G   00            05   FB 0002D          CALLS   #5, NML$GETINFTABS                                ;
                        10        AE   9F 00034          PUSHAB  P2DSC                                             ; 0787
                        10        A7   9F 00037          PUSHAB  NML$Q_P2BFDSC                                     ;
                                  7E   D4 0003A          CLRL    -(SP)                                             ;
                  7E              01   CE 0003C          MNEGL   #1, -(SP)                                         ;
                  7E    10        AC   3C 0003F          MOVZWL  SNKADR, -(SP)                                     ;
                                  7E   D4 00043          CLRL    -(SP)                                             ;
        00000000G   00            06   FB 00045          CALLS   #6, NML$BLDP2                                     ;
                     00000000G    00   9F 0004C          PUSHAB  NML$GQ_QIOBFDSC                                   ; 0788
                                  7E   D4 00052          CLRL    -(SP)                                             ;
                        18        AE   9F 00054          PUSHAB  P2DSC                                             ;
                        10        AE   DD 00057          PUSHL   NFBDSC                                            ;
        00000000G   00            04   FB 0005A          CALLS   #4, NML$NETQIO                                    ;
                    56            50   D0 00061          MOVL    R0, STATUS                                        ;
                    17            56   E9 00064          BLBC    STATUS, 1$                                        ; 0790
                  50 00000000G    00   D0 00067          MOVL    NML$GQ_QIOBFDSC+4, R0                             ; 0798
             18     AE            60   B0 0006E          MOVW    (R0), EVEDSC                                      ;
             1C     AE            68   9E 00072          MOVAB   NML$T_PRMBUFFER, EVEDSC+4                         ; 0799
        68   02     A0  18        AE   28 00076          MOVC3   EVEDSC, 2(R0), NML$T_PRMBUFFER                    ; 0801
                                  13   11 0007C          BRB     3$                                                ; 0790
        FFFFFFF0    8F            56   D1 0007E 1$:      CMPL    STATUS, #-16                                      ; 0808
```

```
                            03  13 00085          BEQL    2$                                          ;
                          00EC  31 00087          BRW     13$                                         ;
                       18   AE  B4 0008A  2$:     CLRW    EVEDSC                                      ; 0816
         1C   AE            68  9E 0008D          MOVAB   NML$T_PRMBUFFER, EVEDSC+4                   ; 0817
              56            3A  CE 00091  3$:     MNEGL   #58, STATUS                                 ; 0829
                       08   AE  D4 00094          CLRL    SRCPTR                                      ; 0830
                       08   AE  9F 00097  4$:     PUSHAB  SRCPTR                                      ; 0831
              7E       08   AC  7D 0009A          MOVQ    SETDSC, -(SP)                               ;
   00000000G  00            03  FB 0009E          CALLS   #3, NML$GETNXTSNK                           ;
              03            50  E8 000A5          BLBS    R0, 5$                                      ;
                          00AD  31 000A8          BRW     12$                                         ;
              56            01  D0 000AB  5$:     MOVL    #1, STATUS                                  ; 0833
              52       08   AE  D0 000AE          MOVL    SRCPTR, R2                                  ; 0838
              50       03   A2  9A 000B2          MOVZBL  3(R2), R0                                   ;
              01            50  91 000B6          CMPB    R0, #1                                      ; 0841
                            0A  13 000B9          BEQL    6$                                          ;
              03            50  91 000BB          CMPB    R0, #3                                      ;
                            11  1F 000BE          BLSSU   7$                                          ;
              04            50  91 000C0          CMPB    R0, #4                                      ;
                            0C  1A 000C3          BGTRU   7$                                          ;
         20   AE       04   A2  9B 000C5  6$:     MOVZBW  4(R2), ENTDSC                               ; 0844
         24   AE       05   A2  9E 000CA          MOVAB   5(R2), ENTDSC+4                             ; 0845
                            14  11 000CF          BRB     9$                                          ; 0838
                            50  D5 000D1  7$:     TSTL    R0                                          ; 0848
                            0A  12 000D3          BNEQ    8$                                          ;
                       20   AE  B4 000D5          CLRW    ENTDSC                                      ; 0850
         24   AE       04   A2  3C 000D8          MOVZWL  4(R2), ENTDSC+4                             ; 0851
                            06  11 000DD          BRB     9$                                          ; 0838
                       20   AE  B4 000DF  8$:     CLRW    ENTDSC                                      ; 0856
                       24   AE  D4 000E2          CLRL    ENTDSC+4                                    ; 0857
                 00000000G  00  94 000E5  9$:     CLRB    NML$GB_EVTMSKTYP                            ; 0861
                       0C   AE  D4 000EB          CLRL    EVTPTR                                      ; 0862
                       0C   AE  9F 000EE  10$:    PUSHAB  EVTPTR                                      ; 0863
                            52  DD 000F1          PUSHL   R2                                          ;
   00000000G  00            02  FB 000F3          CALLS   #2, NML$GETNXTEVT                           ;
              9A            50  E9 000FA          BLBC    R0, 4$                                      ;
                       18   AE  9F 000FD          PUSHAB  EVEDSC                                      ; 0875
7E       10   AE            C4  C1 00100          ADDL3   #4, EVTPTR, -(SP)                           ;
                            08  DD 00105          PUSHL   #8                                          ;
              7E       18   BE  3C 00107          MOVZWL  @EVTPTR, -(SP)                              ;
                       30   AE  9F 0010B          PUSHAB  ENTDSC                                      ; 0868
              7E       03   A2  9A 0010E          MOVZBL  3(R2), -(SP)                                ; 0875
                       0C   AC  DD 00112          PUSHL   SNK                                         ;
                            57  DD 00115          PUSHL   R7                                          ; 0868
                            01  DD 00117          PUSHL   #1                                          ; 0875
              6A            09  FB 00119          CALLS   #9, NML$ADDFILTERS                          ;
              56            50  D0 0011C          MOVL    R0, STATUS                                  ;
              25            56  E9 0011F          BLBC    STATUS, 11$                                 ; 0880
                       18   AE  9F 00122          PUSHAB  EVEDSC                                      ; 0889
7E       10   AE            0C  C1 00125          ADDL3   #12, EVTPTR, -(SP)                          ;
                            08  DD 0012A          PUSHL   #8                                          ;
              7E       18   BE  3C 0012C          MOVZWL  @EVTPTR, -(SP)                              ;
                       30   AE  9F 00130          PUSHAB  ENTDSC                                      ; 0882
              7E       03   A2  9A 00133          MOVZBL  3(R2), -(SP)                                ; 0889
                       0C   AC  DD 00137          PUSHL   SNK                                         ;
                            57  DD 0013A          PUSHL   R7                                          ; 0882
                            7E  D4 0013C          CLRL    -(SP)                                       ; 0889
```

```
                                 6A            09  FB 0013E         CALLS    #9, NML$ADDFILTERS                          ;
                                 56            50  D0 00141         MOVL     R0, STATUS                                  ;
                                 A7            56  E8 00144         BLBS     STATUS, 10$                                 ; 0891
                                 69            04  D0 00147 11$:    MOVL     #4, NML$AB_MSGBLOCK                         ; 0895
                            04   A9            05  8E 0014A         MNEGB    #5, NML$AB_MSGBLOCK+4                       ; 0896
                            0C   A9 00000000G  8F  D0 0014E         MOVL     #NML$_BADEVTUPD, NML$AB_MSGBLOCK+12         ; 0897
                                               1E  11 00156         BRB      13$                                         ; 0898
                                 1B            56  E9 00158 12$:    BLBC     STATUS, 13$                                 ; 0910
                                         04    AC  DD 0015B         PUSHL    RECDSC                                      ; 0914
                                         20    AE  DD 0015E         PUSHL    EVEDSC+4                                    ; 0913
                                 7E      20    AE  3C 00161         MOVZWL   EVEDSC, -(SP)                               ; 0912
                                 7E 00000000G  00  3C 00165         MOVZWL   NML$GQ_RECBFDSC, -(SP)                      ; 0911
                      00000000G  00            04  FB 0016C         CALLS    #4, NML$SAVEVENTS                           ;
                                 56            50  D0 00173         MOVL     R0, STATUS                                  ;
                                 50            56  D0 00176 13$:    MOVL     STATUS, R0                                  ; 0915
                                                   04 00179         RET                                                  ; 0916

; Routine Size:  378 bytes,    Routine Base:  $CODE$ + 041B
```

```
:  925      0917  1 %SBTTL 'NML_SETENTITY  Set volatile database parameters'
:  926      0918  1 ROUTINE NML_SETENTITY (ENTITY, ENTITY_LEN, ENTITY_ADR,
:  927      0919  1                         QUAL_PST, QUAL_LEN, QUAL_ADR) =
:  928      0920  1
:  929      0921  1 !++
:  930      0922  1 ! FUNCTIONAL DESCRIPTION:
:  931      0923  1 !
:  932      0924  1 !       This routine adds the specified parameters to the volatile data base
:  933      0925  1 !       entry for the specified component.
:  934      0926  1 !
:  935      0927  1 ! FORMAL PARAMETERS:
:  936      0928  1 !
:  937      0929  1 !       ENTITY          Entity type code.
:  938      0930  1 !       ENTITY_LEN      Byte count of entity id string.
:  939      0931  1 !       ENTITY_ADR      Address of entity id string.
:  940      0932  1 !       QUAL_PST        Qualifier's Parameter Semantic Table entry address.
:  941      0933  1 !       QUAL_LEN        Byte count of qualifier id string
:  942      0934  ' !       QUAL_ADR        Address of qualifier id string
:  943      0935  1 !
:  944      0936  1 !
:  945      0937  1 ! ROUTINE VALUE:
:  946      0938  1 ! COMPLETION CODES:
:  947      0939  1 !
:  948      0940  1 !       The translated status of the SET QIO is returned.
:  949      0941  1 !--
:  950      0942  1
:  951      0943  2 BEGIN
:  952      0944  2
:  953      0945  2 LOCAL
:  954      0946  2     db,                                 ! Database ID
:  955      0947  2     srchkey1,                           ! Search key one ID
:  956      0948  2     srchkey2,                           ! Search key two ID
:  957      0949  2     detail : WORD,                      ! NICE error detail code
:  958      0950  2     fid,                                ! File id code
:  959      0951  2     key,
:  960      0952  2     owner,                              ! Search key
:  961      0953  2     nfbdsc : DESCRIPTOR,                ! NFB buffer descriptor
:  962      0954  2     p2dsc  : DESCRIPTOR,                ! QIO P2 buffer descriptor
:  963      0955  2     qbfdsc : DESCRIPTOR,                ! QIO P4 buffer descriptor
:  964      0956  2     recdsc : DESCRIPTOR,                ! Record descriptor
:  965      0957  2     status,
:  966      0958  2     dummy,
:  967      0959  2     tabdes : REF DESCRIPTOR;
:  968      0960  2
:  969      0961  2 status = nml$_sts_suc;
:  970      0962  2 !
:  971      0963  2 ! Get entity information.
:  972      0964  2 !
:  973      0965  2 db       = .nml$ab_entitydata [.entity, eit$b_database];! Database ID
:  974      0966  2 srchkey1 = .nml$ab_entitydata [.entity, eit$l_srch_id1]; ! Search key one
:  975      0967  2 srchkey2 = .nml$ab_entitydata [.entity, eit$l_srch_id2]; ! Search key two
:  976      0968  2 detail   = .nml$ab_entitydata [.entity, eit$w_detail]; ! NICE error detail
:  977      0969  2 fid      = .nml$ab_entitydata [.entity, eit$b_fileid]; ! File id code
:  978      0970  2 owner    = .nml$ab_entitydata [.entity, eit$w_key];    ! Search key
:  979      0971  2 tabdes   = .nml$ab_entitydata [.entity, eit$a_alltab]; ! Table for SET ALL
:  980      0972  2 !
:  981      0973  2 ! If no parameters were specified in the NICE message then all parameters
```

```
2  ! from the permanent data base should be used.
2  !
2  IF .nml$gl_prs_flgs [nml$v_prs_all] THEN
3      BEGIN
3      !
3      ! Find a permanent data base entry for this entity.  If one is not
3      ! found then create a descriptor for a null record.
3      !
3      IF .fid NEQ nma$c_opn_node THEN
4          BEGIN
4          key = 0;
4          IF NOT nml$matchrecord (.fid,
4                                  nml$gq_recbfdsc,
4                                  key,
4                                  .owner, .entity_len, .entity_adr,
4                                  .qual_pst, .qual_len, .qual_adr,
4                                  recdsc) THEN
5              BEGIN
5              !
5              ! If no data base record was found for a logging sink then
5              ! just return.  This check avoids extraneous error messages
5              ! as the result of the NCP SET KNOWN LOGGING ALL command.
5              !
5              IF .entity EQLU nml$c_sink THEN
5                  RETURN nml$_sts_suc;
5              !
5              ! NICE does not differentiate between
5              !           SET entity abc
5              !              and
5              !           SET entity abc ALL
5              ! However, some entities require at least one other parameter
5              ! (objects must have a number).  So, for entities with are not in
5              ! the perm database, assume that it's simply a SET command unless
5              ! the entity has a required parameter.
5              !
5              IF .entity EQLU nml$c_object THEN
5                  status = nml$_sts_cmp;
5              recdsc [dsc$w_length]  = 0;
5              recdsc [dsc$a_pointer] = .nml$gq_recbfdsc [dsc$a_pointer] +
5                                                  nml$k_perm_keys_len;
4              END;
4          !
4          ! If entity is X25-Protocol network, no entity ID was supplied with the
4          ! NICE command.  So, get the network name from the permanent data
4          ! base record, and set it up as the entity ID for the QIO.
4          !
4          IF .entity EQLU nml$c_prot_net THEN
4              status = nma$searchfld (recdsc, .owner, entity_len, entity_adr);
4          END
3      ELSE
3          !
3          ! The ISAM key structure for the node permanent database is different
3          ! so it will be faster (it can be much bigger than the others).
3          !
4          BEGIN
4          IF NOT nml$readrecord (.fid, owner, entity_len,
4                                  nml$gq_recbfdsc, recdsc, dummy) THEN
```

```
; 1039        1031  4                 status = nml$_sts_cmp;
; 1040        1032  3             END;
; 1041        1033  3         !
; 1042        1034  3         ! Using the SET ALL parameter list (in NMLDAT) for this entity, build
; 1043        1035  3         ! the a parameter descriptor list in the form generated by the NPARSE
; 1044        1036  3         ! tables.
; 1045        1037  3         !
; 1046        1038  3         IF .status THEN
; 1047        1039  3             nml$bldalldes (recdsc, .tabdes); ! Build descriptors
; 1048        1040  2         END;
; 1049        1041  2
; 1050        1042  2     IF .status EQL nml$_sts_cmp THEN
; 1051        1043  3         BEGIN
; 1052        1044  3         nml$ab_msgblock [msb$l_flags]  = msb$m_det_fld;
; 1053        1045  3         nml$ab_msgblock [msb$w_detail] = .detail;
; 1054        1046  3         nml$ab_msgblock [msb$b_code] = nma$c_sts_cmp;
; 1055        1047  3         RETURN nml$_sts_cmp;
; 1056        1048  2         END;
; 1057        1049  2     IF .status THEN
; 1058        1050  3         BEGIN
; 1059        1051  3         !
; 1060        1052  3         ! Add the parameters to volatile data base entry.
; 1061        1053  3         !
; 1062        1054  3         nml$bldsetqbf (nfb$c_fc_set, .db,
; 1063        1055  3                        .srchkey1, .entity_len, .entity_adr,
; 1064        1056  3                        .srchkey2, .qual_len, .qual_adr,
; 1065        1057  3                        nml$q_nfbbfdsc, nfbdsc,
; 1066        1058  3                        nml$q_p2bfdsc, p2dsc,
; 1067        1059  3                        nml$gq_qiobfdsc, qbfdsc);
; 1068        1060  3         status = nml$netqio (nfbdsc, p2dsc, 0, qbfdsc);
; 1069        1061  3         IF .status THEN
; 1070        1062  4             BEGIN
; 1071        1063  4             nml$ab_msgblock [msb$l_flags] = 0;
; 1072        1064  4             nml$ab_msgblock [msb$b_code] = nma$c_sts_suc;
; 1073        1065  3             END;
; 1074        1066  2         END;
; 1075        1067  2     RETURN .status
; 1076        1068  1     END;                             ! End of NML_SETENTITY



                                                   07FC 00000 NML_SETENTITY:
                                                                       .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10                         ; 0918
                        5A 00000000G   00  9E 00002            MOVAB   NML$GQ_RECBFDSC, R10                                     ;
                        59 00000000G   00  9E 00009            MOVAB   NML$AB_MSGBLOCK, R9                                      ;
                        58 00000000G   00  9E 00010            MOVAB   NML$AB_ENTITYDATA+5, R8                                  ;
                        5E             2C  C2 00017            SUBL2   #44, SP                                                  ;
                        52             01  D0 0001A            MOVL    #1, STATUS                                               ; 0961
          50       04   AC             2C  C5 0001D            MULL3   #44, ENTITY, R0                                          ; 0965
                        57           6840  9A 00022            MOVZBL  NML$AB_ENTITYDATA+5[R0], DB                              ;
                                  01 A840  9F 00026            PUSHAB  NML$AB_ENTITYDATA+6[R0]                                  ; 0966
                        56             9E  D0 0002A            MOVL    @(SP)+, SRCHKEY1                                         ;
                                  05 A840  9F 0002D            PUSHAB  NML$AB_ENTITYDATA+10[R0]                                 ; 0967
                        55             9E  D0 00031            MOVL    @(SP)+, SRCHKEY2                                         ;
                                  FC A840  9F 00034            PUSHAB  NML$AB_ENTITYDATA+1[R0]                                  ; 0968
```

```
                              54                9E  B0 00038        MOVW     @(SP)+, DETAIL                              ;
                              51         FB A840  9A 0003B          MOVZBL   NML$AB_ENTITYDATA[R0], FID                  ; 0969
                                         FE A840  9F 00040          PUSHAB   NML$AB_ENTITYDATA+3[R0]                     ; 0970
                       08     AE                9E  3C 00044        MOVZWL   @(SP)+, OWNER                               ;
                                         23 A840  9F 00048          PUSHAB   NML$AB_ENTITYDATA+40[R0]                    ; 0971
                              53                9E  D0 0004C        MOVL     @(SP)+, TABDES                              ;
               03 00000000G   00                01  E0 0004F        BBS      #1, NML$GL_PRS_FLGS, 1$                     ; 0976
                                              008E  31 00057        BRW      7$                                          ;
                                                51  D5 0005A 1$:    TSTL     FID                                         ; 0982
                                                5E  13 0005C        BEQL     5$                                          ;
                                                6E  D4 0005E        CLRL     KEY                                         ; 0984
                                         0C     AE  9F 00060        PUSHAB   RECDSC                                      ; 0985
                              7E         14     AC  7D 00063        MOVQ     QUAL_LEN, -(SP)                             ; 0989
                              7E         0C     AC  7D 00067        MOVQ     ENTITY_ADR, -(SP)                           ; 0988
                                         08     AC  DD 0006B        PUSHL    ENTITY_LEN                                  ;
                                         20     AE  DD 0006E        PUSHL    OWNER                                       ;
                                         1C     AE  9F 00071        PUSHAB   KEY                                         ; 0985
                                       0402     8F  BB 00074        PUSHR    #^M<R1,R10>                                 ;
                  00000000G   00                0A  FB 00078        CALLS    #10, NML$MATCHRECORD                        ;
                              1C                50  E8 0007F        BLBS     R0, 4$                                      ;
                              02         04     AC  D1 00082        CMPL     ENTITY, #2                                  ; 0997
                                                04  12 00086        BNEQ     2$                                          ;
                              50                01  D0 00088        MOVL     #1, R0                                      ; 0998
                                                    04 0008B        RET                                                  ;
                              08         04     AC  D1 0008C 2$:    CMPL     ENTITY, #8                                  ; 1009
                                                03  12 00090        BNEQ     3$                                          ;
                              52                10  CE 00092        MNEGL    #16, STATUS                                 ; 1010
                                         0C     AE  B4 00095 3$:    CLRW     RECDSC                                      ; 1011
       10     AE       04     AA                02  C1 00098        ADDL3    #2, NML$GQ_RECBFDSC+4, RECDSC+4             ; 1012
                              0E         04     AC  D1 0009E 4$:    CMPL     ENTITY, #14                                 ; 1020
                                                35  12 000A2        BNEQ     6$                                          ;
                                         0C     AC  9F 000A4        PUSHAB   ENTITY_ADR                                  ; 1021
                                         08     AC  9F 000A7        PUSHAB   ENTITY_LEN                                  ;
                                         10     AE  DD 000AA        PUSHL    OWNER                                       ;
                                         18     AE  9F 000AD        PUSHAB   RECDSC                                      ;
                  00000000G   00                04  FB 000B0        CALLS    #4, NMA$SEARCHFLD                           ;
                              52                50  D0 000B7        MOVL     R0, STATUS                                  ;
                                                1D  11 000BA        BRB      6$                                          ; 0982
                                         04     AE  9F 000BC 5$:    PUSHAB   DUMMY                                       ; 1029
                                         10     AE  9F 000BF        PUSHAB   RECDSC                                      ;
                                                5A  DD 000C2        PUSHL    R10                                         ;
                                         08     AC  9F 000C4        PUSHAB   ENTITY_LEN                                  ;
                                         18     AE  9F 000C7        PUSHAB   OWNER                                       ;
                                                51  DD 000CA        PUSHL    FID                                         ;
                  00000000G   00                06  FB 000CC        CALLS    #6, NML$READRECORD                          ;
                              03                50  E8 000D3        BLBS     R0, 6$                                      ;
                              52                10  CE 000D6        MNEGL    #16, STATUS                                 ; 1031
                              0C                52  E9 000D9 6$:    BLBC     STATUS, 7$                                  ; 1038
                                                53  DD 000DC        PUSHL    TABDES                                      ; 1039
                                         10     AE  9F 000DE        PUSHAB   RECDSC                                      ;
                  00000000G   00                02  FB 000E1        CALLS    #2, NML$BLDALLDES                           ;
                  FFFFFFF0    8F                52  D1 000E8 7$:    CMPL     STATUS, #-16                                ; 1042
                                                0F  12 000EF        BNEQ     8$                                          ;
                              69                02  D0 000F1        MOVL     #2, NML$AB_MSGBLOCK                         ; 1044
                       08     A9                54  B0 000F4        MOVW     DETAIL, NML$AB_MSGBLOCK+8                   ; 1045
                       04     A9                08  8E 000F8        MNEGB    #8, NML$AB_MSGBLOCK+4                       ; 1046
                              50                10  CE 000FC        MNEGL    #16, R0                                     ; 1047
```

```
                                      04 000FF          RET                                                    ;
                  50            52    E9 00100  8$:     BLBC    STATUS, 9$                                     ; 1049
                          14    AE    9F 00103          PUSHAB  QBFDSC                                         ; 1054
                   00000000G    00    9F 00106          PUSHAB  NML$GQ_QIOBFDSC                                ;
                          24    AE    9F 0010C          PUSHAB  P2DSC                                          ;
                   00000000'    00    9F 0010F          PUSHAB  NML$Q_P2BFDSC                                  ;
                          34    AE    9F 00115          PUSHAB  NFBDSC                                         ;
                   00000000'    00    9F 00118          PUSHAB  NML$Q_NFBBFDSC                                 ;
                   E      14    AC    7D 0011E          MOVQ    QUAL_LEN, -(SP)                                ; 1056
                                55    DD 00122          PUSHL   SRCHKEY2                                       ;
                  7E      08    AC    7D 00124          MOVQ    ENTITY_LEN, -(SP)                              ; 1055
                                56    DD 00128          PUSHL   SRCHKEY1                                       ;
                                57    DD 0012A          PUSHL   DB                                             ; 1054
                                23    DD 0012C          PUSHL   #35                                            ;
       00000000G  00            0E    FB 0012E          CALLS   #14, NML$BLDSETQBF                             ;
                          14    AE    9F 00135          PUSHAB  QBFDSC                                         ; 1060
                                7E    D4 00138          CLRL    -(SP)                                          ;
                          24    AE    9F 0013A          PUSHAB  P2DSC                                          ;
                          30    AE    9F 0013D          PUSHAB  NFBDSC                                         ;
       00000000G  00            04    FB 00140          CALLS   #4, NML$NETQIO                                 ;
                  52            50    D0 00147          MOVL    R0, STATUS                                     ;
                  06            52    E9 0014A          BLBC    STATUS, 9$                                     ; 1061
                                69    D4 0014D          CLRL    NML$AB_MSGBLOCK                                ; 1063
             04   A9            01    90 0014F          MOVB    #1, NML$AB_MSGBLOCK+4                          ; 1064
                  50            52    D0 00153  9$:     MOVL    STATUS, R0                                     ; 1067
                                      04 00156          RET                                                    ; 1068

; Routine Size:  343 bytes,    Routine Base:  $CODE$ + 0595
; 1078          1069  1 %SBTTL 'NML$SETLINE  Set volatile line parameters'
; 1079          1070  1 GLOBAL ROUTINE NML$SETLINE (ENTITY, LEN, ADR) : NOVALUE =
; 1080          1071  1
; 1081          1072  1 !++
; 1082          1073  1 ! FUNCTIONAL DESCRIPTION:
; 1083          1074  1 !
; 1084          1075  1 !       This routine adds the specified parameters to the volatile data base
; 1085          1076  1 !       entry for the specified line.  This routine will eventually provide
; 1086          1077  1 !       support for wildcaros in the line id.
; 1087          1078  1 !
; 1088          1079  1 ! FORMAL PARAMETERS:
; 1089          1080  1 !
; 1090          1081  1 !       ENTITY          Entity type code.
; 1091          1082  1 !       LEN             Byte of line id string.
; 1092          1083  1 !       ADR             Address of line id string.
; 1093          1084  1 !
; 1094          1085  1 ! IMPLICIT INPUTS:
; 1095          1086  1 !
; 1096          1087  1 !       NONE
; 1097          1088  1 !
; 1098          1089  1 ! IMPLICIT OUTPUTS:
; 1099          1090  1 !
; 1100          1091  1 !       NONE
; 1101          1092  1 !
; 1102          1093  1 ! ROUTINE VALUE:
; 1103          1094  1 ! COMPLETION CODES:
; 1104          1095  1 !
; 1105          1096  1 !       NONE
; 1106          1097  1 !
; 1107          1098  1 ! SIDE EFFECTS:
; 1108          1099  1 !
; 1109          1100  1 !       NONE
; 1110          1101  1 !
; 1111          1102  1 !--
; 1112          1103  1
; 1113          1104  2    BEGIN
; 1114          1105  2 !
; 1115          1106  2 ! Call normal entity routine to handle line parameters.
; 1116          1107  2 !
; 1117          1108  2    NML$SETENTITY (.ENTITY, .LEN, .ADR);
; 1118          1109  2
; 1119          1110  1    END;                                ! End of NML$SETLINE



                                      0000 00000         .ENTRY  NML$SETLINE, Save nothing                 ; 1070
                     7E       08  AC  7D 00002          MOVQ    LEN, -(SP)                                ; 1108
                              04  AC  DD 00006          PUSHL   ENTITY                                    ;
               F906  CF           03  FB 00009          CALLS   #3, NML$SETENTITY                         ;
                                      04 0000E          RET                                               ; 1110

; Routine Size:  15 bytes,    Routine Base:  $CODE$ + 06EC
```

```
: 1121           1111  1 %SBTTL 'NML$SETEXECUTOR  Set executor parameters'
: 1122           1112  1 GLOBAL ROUTINE NML$SETEXECUTOR (ENTITY, DUM1, DUM2) : NOVALUE =
: 1123           1113  1
: 1124           1114  1 !++
: 1125           1115  1 ! FUNCTIONAL DESCRIPTION:
: 1126           1116  1 !
: 1127           1117  1 !       This routine adds the specified parameters to the volatile data base
: 1128           1118  1 !       entry for the executor node.
: 1129           1119  1 !
: 1130           1120  1 ! FORMAL PARAMETERS:
: 1131           1121  1 !
: 1132           1122  1 !       ENTITY          Entity code.
: 1133           1123  1 !       DUM1            Not used.
: 1134           1124  1 !       DUM2            Not used.
: 1135           1125  1 !
: 1136           1126  1 ! IMPLICIT INPUTS:
: 1137           1127  1 !
: 1138           1128  1 !       NONE
: 1139           1129  1 !
: 1140           1130  1 ! IMPLICIT OUTPUTS:
: 1141           1131  1 !
: 1142           1132  1 !       NONE
: 1143           1133  1 !
: 1144           1134  1 ! ROUTINE VALUE:
: 1145           1135  1 ! COMPLETION CODES:
: 1146           1136  1 !
: 1147           1137  1 !       NONE
: 1148           1138  1 !
: 1149           1139  1 ! SIDE EFFECTS:
: 1150           1140  1 !
: 1151           1141  1 !       NONE
: 1152           1142  1 !
: 1153           1143  1 !--
: 1154           1144  1
: 1155           1145  2    BEGIN
: 1156           1146  2 !
: 1157           1147  2 ! If no parameters were specified in the NICE message then all parameters
: 1158           1148  2 ! from the permanent data base should be used.
: 1159           1149  2 !
: 1160           1150  2    IF .NML$GL_PRS_FLGS [NML$V_PRS_ALL]
: 1161           1151  2    THEN
: 1162           1152  2        NML_SETEXEALL ()
: 1163           1153  2    ELSE
: 1164           1154  2        NML_SETEXE ();
: 1165           1155  2
: 1166           1156  1    END;                                ! End of NML$SETEXECUTOR



                                            0000 00000          .ENTRY  NML$SETEXECUTOR, Save nothing                 : 1112
                   08 00000000G  00       01  E1 00002          BBC     #1, NML$GL_PRS_FLGS, 1$                       : 1150
                      0000000CV  00       00  FB 0000A          CALLS   #0, NML_SETEXEALL                             : 1152
                                              04 00011          RET                                                   :
                      00000000V  00       00  FB 00012 1$:      CALLS   #0, NML_SETEXE                                : 1154
                                              04 00019          RET                                                   : 1156
```

```
; Routine Size:  26 bytes,    Routine Base:  $CODE$ + 06FB
; 1168          1157  1 %SBTTL 'NML$SETKNOWN  Set volatile entity parameters'
; 1169          1158  1 GLOBAL ROUTINE NML$SETKNOWN (ENTITY, ENTITY_LEN, ENTITY_ADR,
; 1170          1159  1                                  DUM3, DUM4, DUM5) : NOVALUE =
; 1171          1160  1
; 1172          1161  1 !++
; 1173          1162  1 ! FUNCTIONAL DESCRIPTION:
; 1174          1163  1 !
; 1175          1164  1 !       This routine sets the specified parameters for each of the components
; 1176          1165  1 !       of the given entity type.
; 1177          1166  1 !
; 1178          1167  1 ! FORMAL PARAMETERS:
; 1179          1168  1 !
; 1180          1169  1 !       ENTITY          Entity type code.
; 1181          1170  1 !       ENTITY_LEN      Byte count of entity id string.
; 1182          1171  1 !       ENTITY_ADR      Address of entity id string.
; 1183          1172  1 !       DUM3 - DUM5     Not used.
; 1184          1173  1 !
; 1185          1174  1 !--
; 1186          1175  1
; 1187          1176  2 BEGIN
; 1188          1177  2 !
; 1189          1178  2 ! If this no parameters specified then add all permanent data base information
; 1190          1179  2 ! to volatile data base.
; 1191          1180  2 !
; 1192          1181  2 IF .NML$GL_PRS_FLGS [NML$V_PRS_ALL]
; 1193          1182  2 THEN
; 1194          1183  2       NML_SETKNOWNALL (.ENTITY, .ENTITY_LEN, .ENTITY_ADR)
; 1195          1184  2 ELSE
; 1196          1185  2       NML_SETKNOWN (.ENTITY);
; 1197          1186  2
; 1198          1187  1 END;                               ! End of NML$SETKNOWN



                                             0000 00000          .ENTRY  NML$SETKNOWN, Save nothing                     ; 1158
                 0F 00000000G  00          01  E1 00002          BBC     #1, NML$GL_PRS_FLGS, 1$                        ; 1181
                           7E       08     AC  7D 0000A          MOVQ    ENTITY_LEN, -(SP)                              ; 1183
                                    04     AC  DD 0000E          PUSHL   ENTITY                                         ;
                    00000000V  00          03  FB 00011          CALLS   #3, NML_SETKNOWNALL                            ;
                                               04 00018          RET                                                    ;
                                    04     AC  DD 00019 1$:      PUSHL   ENTITY                                         ; 1185
                    00000000V  00          01  FB 0001C          CALLS   #1, NML_SETKNOWN                               ;
                                               04 00023          RET                                                    ; 1187

; Routine Size:  36 bytes,    Routine Base:  $CODE$ + 0715


; 1199          1188  1
```

```
1 %SBTTL 'NML$SETKNONODES  Set volatile node parameters'
1 GLOBAL ROUTINE NML$SETKNONODES (ENTITY, DUM1, DUM2) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine sets the specified parameters for each of the nodes.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       ENTITY          Entity type code.
1 !       DUM1            Not used.
1 !       DUM2            Not used.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       NONE
1 !
1 !--
1
2     BEGIN
2 !
2 ! If this no parameters specified then add all permanent data base information
2 ! to volatile data base.
2 !
2     IF .NML$GL_PRS_FLGS [NML$V_PRS_ALL]
2     THEN
3       BEGIN
3       NML_SETEXEALL ();
3       NML_SETKNOWNALL (NML$C_NODE);
3       NML_SETKNOWNALL (NML$C_LOOPNODE);
3
3       END
2     ELSE
3       BEGIN
3       NML_SETEXE ();
3       NML_SETKNOWN (NML$C_NODE);
3
2       END;
2
1     END;                                    ! End of NML$SETKNONODES
```

```
                                          0004 00000          .ENTRY  NML$SETKNONODES, Save R2                   ; 1190
                     52 00000000V  00   9E 00002          MOVAB   NML_SETKNOWNALL, R2                        ;
          12 00000000G  00         01   E1 00009          BBC     #1, NML$GL_PRS_FLGS, 1$                    ; 1227
             00000000V  00         00   FB 00011          CALLS   #0, NML_SETEXEALL                          ; 1230
                                   03   DD 00018          PUSHL   #3                                         ; 1231
                     62            01   FB 0001A          CALLS   #1, NML_SETKNOWNALL                        ;
                                   05   DD 0001D          PUSHL   #5                                         ; 1232
                     62            01   FB 0001F          CALLS   #1, NML_SETKNOWNALL                        ;
                                        04 00022          RET                                                ; 1227
             00000000V  00         00   FB 00023 1$:      CALLS   #0, NML_SETEXE                             ; 1237
                                   03   DD 0002A          PUSHL   #3                                         ; 1238
             00000000V  00         01   FB 0002C          CALLS   #1, NML_SETKNOWN                           ;
                                        04 00033          RET                                                ; 1242

; Routine Size:  52 bytes,    Routine Base:  $CODE$ + 0739


; 1255          1243  1
;  1257        1244   1  %SBTTL 'NML_SETKNOWN  Set volatile entity parameters'
;  1258        1245   1  ROUTINE NML_SETKNOWN (ENTITY) : NOVALUE =
;  1259        1246   1
;  1260        1247   1  !++
;  1261        1248   1  ! FUNCTIONAL DESCRIPTION:
;  1262        1249   1  !
;  1263        1250   1  !       This routine sets the specified parameters for each of the components
;  1264        1251   1  !       of the given entity type.
;  1265        1252   1  !
;  1266        1253   1  ! INPUTS:
;  1267        1254   1  !
;  1268        1255   1  !       ENTITY          Entity type code.
;  1269        1256   1  !
;  1270        1257   1  !--
;  1271        1258   1
;  1272        1259   2  BEGIN
;  1273        1260   2
;  1274        1261   2  LOCAL
;  1275        1262   2      BUFEND,
;  1276        1263   2      DB,                         ! Database ID
;  1277        1264   2      SRCHKEY1,                   ! Search key one ID
;  1278        1265   2      SRCHKEY2,                   ! Search key two ID
;  1279        1266   2      ENTITYADD,
;  1280        1267   2      ENTITYLEN,
;  1281        1268   2      LISDSC    : DESCRIPTOR,
;  1282        1269   2      MSGSIZE,
;  1283        1270   2      ENTIDPTR,
;  1284        1271   2      PTR,
;  1285        1272   2      NFBDSC    : DESCRIPTOR,               ! NFB buffer descriptor
;  1286        1273   2      P2DSC     : DESCRIPTOR,               ! QIO P2 buffer descriptor
;  1287        1274   2      QBFDSC    : DESCRIPTOR,               ! QIO P2 buffer descriptor
;  1288        1275   2      STATUS,
;  1289        1276   2      STRTFLG;
;  1290        1277   2  !
;  1291        1278   2  ! Build QIO buffer.
;  1292        1279   2  !
;  1293        1280   2  DB       = .NML$AB_ENTITYDATA [.ENTITY, EIT$B_DATABASE]; ! Database ID
;  1294        1281   2  SRCHKEY1 = .NML$AB_ENTITYDATA [.ENTITY, EIT$L_SRCH_ID1];  ! Search key one
;  1295        1282   2  SRCHKEY2 = .NML$AB_ENTITYDATA [.ENTITY, EIT$L_SRCH_ID2];  ! Search key two
;  1296        1283   2  !
;  1297        1284   2  ! Process every entry in the data base.
;  1298        1285   2  !
;  1299        1286   2  ! The NICE protocol specifies that, for multiple entity changes, one NICE
;  1300        1287   2  ! response message must be returned to NCP for each entity changed.  Each
;  1301        1288   2  ! message must contain the ID of the entity changed.  Therefore, the following
;  1302        1289   2  ! loop issues one QIO to the ACP to get a bufferfull of entity IDs, and then
;  1303        1290   2  ! issues one QIO for each entity in the buffer to perform the set.  This
;  1304        1291   2  ! process continues until the ACP returns end-of-file to the request for more
;  1305        1292   2  ! entity IDs.
;  1306        1293   2  !
;  1307        1294   2  STRTFLG = FALSE;
;  1308        1295   2  WHILE NML$GET_ENTITY_IDS (.ENTITY, NMA$C_ENT_KNO, 0, .STRTFLG, LISDSC) DO
;  1309        1296   3      BEGIN
;  1310        1297   3
;  1311        1298   3      STRTFLG = TRUE;
;  1312        1299   3
;  1313        1300   3      BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
```

```
: 1314       1301  3      PTR = .LISDSC [DSC$A_POINTER];
: 1315       1302  3
: 1316       1303  3      WHILE .PTR LSSA .BUFEND DO
: 1317       1304  4          BEGIN
: 1318       1305  4
: 1319       1306  4          ENTIDPTR = NML$T_ENTBUFFER;
: 1320       1307  4          NML$Q_ENTBFDSC [DSC$W_LENGTH] = NML$K_ENTBUFLEN;
: 1321       1308  4          !
: 1322       1309  4          ! Entity IDs for the ACP are different from those used by NICE.  The
: 1323       1310  4          ! most common cause of this is that the ACP uses a word for the entity
: 1324       1311  4          ! string length, and NICE uses a byte.  The following code sets up the
: 1325       1312  4          ! twc ID forms: the NICE entity ID for the response to NCP
: 1326       1313  4          !               the ACP entity ID to be used in the P2 buffer of the
: 1327       1314  4          !                       clear QIO.
: 1328       1315  4          !
: 1329       1316  4          SELECTONEU .ENTITY OF
: 1330       1317  4              SET
: 1331       1318  4              [NML$C_NODE]:
: 1332       1319  5                  BEGIN
: 1333       1320  5
: 1334       1321  5                  PTR = .PTR + 4; ! Skip loopnode flag.
: 1335       1322  5                  ENTITYADD = .PTR;        ! Point to node address
: 1336       1323  5                  ENTIDPTR = CH$MOVE (2, .PTR, .ENTIDPTR);
: 1337       1324  5                  PTR = .PTR + 4;
: 1338       1325  5
: 1339       1326  5                  ENTITYLEN = .(.PTR)<0,8>; ! Get name length
: 1340       1327  5                  PTR = .PTR + 2;
: 1341       1328  5                  CH$WCHAR_A (.ENTITYLEN, ENTIDPTR);
: 1342       1329  5                  ENTIDPTR = CH$MOVE (.ENTITYLEN, .PTR, .ENTIDPTR);
: 1343       1330  5                  PTR = .PTR + .ENTITYLEN;
: 1344       1331  5                  ENTITYLEN = 2;  ! Get length of rode address
: 1345       1332  4                  END;
: 1346       1333  4
: 1347       1334  4              !
: 1348       1335  4              ! The entity ID for the following modules is the string
: 1349       1336  4              ! identifying the module (e.g. 'X25-PROTOCOL') followed by the
: 1350       1337  4              ! parameter id, parameter type, and string for the qualifier
: 1351       1338  4              ! being set.
: 1352       1339  4              !
: 1353       1340  4              [NML$C_X25_ACCESS,
: 1354       1341  4              NML$C_PROT_NET,
: 1355       1342  4              NML$C_PROT_DTE,
: 1356       1343  4              NML$C_PROT_GRP,
: 1357       1344  4              NML$C_X25_SERV_DEST,
: 1358       1345  4              NML$C_TRACEPNT,
: 1359       1346  4              NML$C_X29_SERV_DEST]:
: 1360       1347  5                  BEGIN
: 1361       1348  5                  SELECTONEU .ENTITY OF
: 1362       1349  5                      SET
: 1363       1350  5                      [NML$C_X25_ACCESS]:
: 1364       1351  5                          $MOVE_ASCIC ('X25-ACCESS', ENTIDPTR);
: 1365       1352  5                      [NML$C_PROT_NET, NML$C_PROT_DTE, NML$C_PROT_GRP]:
: 1366       1353  5                          $MOVE_ASCIC ('X25-PROTOCOL', ENTIDPTR);
: 1367       1354  5                      [NML$C_X25_SERV_DEST]:
: 1368       1355  5                          $MOVE_ASCIC ('X25-SERVER', ENTIDPTR);
: 1369       1356  5                      [NML$C_TRACEPNT]:
: 1370       1357  5                          $MOVE_ASCIC ('X25-TRACE', ENTIDPTR);
```

```
5                 [NML$C_X29_SERV_DEST]:
5                    $MOVE_ASCIC ('X29-SERVER', ENTIDPTR);
5                 TES;
5             ENTIDPTR = CH$MOVE (2,
5                         NML$AB_ENTITYDATA [.ENTITY, EIT$W_DETAIL],
5                         .ENTIDPTR);
5             CH$WCHAR_A (NMA$M_PTY_ASC, ENTIDPTR);
4             END;
4
4          TES;
4
4       IF .ENTITY NEQ NML$C_NODE THEN
5             BEGIN
5             ENTITYLEN = .(.PTR)<0,16>;
5             PTR = .PTR + 2;
5             ENTITYADD = .PTR;
5             CH$WCHAR_A (.ENTITYLEN, ENTIDPTR);
5             ENTIDPTR = CH$MOVE (.ENTITYLEN,
5                          .ENTITYADD,
5                          .ENTIDPTR);
5             PTR = .PTR + .ENTITYLEN;
4             END;
4
4       NML$Q_ENTBFDSC [DSC$W_LENGTH] = .ENTIDPTR - NML$T_ENTBUFFER;
4       !
4       ! Add the parameters to volatile data base entry.
4       !
4       NML$BLDSETQBF (NFB$C_FC_SET, .DB,
4                       .SRCHKEY1, .ENTITYLEN, .ENTITYADD,
4                       .SRCHKEY2, -1, 0,
4                      NML$Q_NFBBFDSC, NFBDSC,
4                      NML$Q_P2BFDSC, P2DSC,
4                      NML$GQ_QIOBFDSC, QBFDSC);
4
4       IF NML$NETQIO (NFBDSC, P2DSC, 0, QBFDSC)
4       THEN
5          BEGIN
5
5          NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
5          NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
5
4          END;
4       !
4       ! Add the entity identification to the message.
4       !
4       NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
4       NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
4       !
4       ! Build and send the response message.
4       !
4       NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
4       NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
3       END;
2    END;
2
1 END;                                  ! End of NML_SETKNOWN
```

```
                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

              53 53 45 43 43 41 2D 35 32 58 0A 00020 P.AAE:     .ASCII  <10>\X25-ACCESS\                          ;
        4C 4F 43 4F 54 4F 52 50 2D 35 32 58 0C 0002B P.AAF:     .ASCII  <12>\X25-PROTOCOL\                        ;
              52 45 56 52 45 53 2D 35 32 58 0A 00038 P.AAG:     .ASCII  <10>\X25-SERVER\                          ;
                 45 43 41 52 54 2D 35 32 58 09 00043 P.AAH:     .ASCII  <9>\X25-TRACE\                            ;
              52 45 56 52 45 53 2D 39 32 58 0A 0004D P.AAI:     .ASCII  <10>\X29-SERVER\                          ;


                                                                .PSECT  $CODE$,NOWRT,2

                                           0FFC 00000 NML_SETKNOWN:
                                                                .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11      ; 1245
                     5E                34 C2 00002              SUBL2   #52, SP                                   ;
                     57           04   AC D0 00005              MOVL    ENTITY, R7                                ; 1280
        56           57                2C C5 00009              MULL3   #44, R7, R6                               ;
                0C   AE 00000000G00046 9A 0000D                 MOVZBL  NML$AB_ENTITYDATA+5[R6], DB               ;
                        00000000G00046 9F 00016                 PUSHAB  NML$AB_ENTITYDATA+6[R6]                   ; 1281
                08   AE                9E D0 0001D              MOVL    @(SP)+, SRCHKEY1                          ;
                        00000000G00046 9F 00021                 PUSHAB  NML$AB_ENTITYDATA+10[R6]                  ; 1282
                04   AE                9E D0 00028              MOVL    @(SP)+, SRCHKEY2                          ;
                                       5B D4 0002C              CLRL    STRTFLG                                   ; 1294
                                  2C   AE 9F 0002E 1$:          PUSHAB  LISDSC                                    ; 1295
                                       5B DD 00031              PUSHL   STRTFLG                                   ;
                                       7E D4 00033              CLRL    -(SP)                                     ;
                     7E                01 CE 00035              MNEGL   #1, -(SP)                                 ;
                                       57 DD 00038              PUSHL   R7                                        ;
           00000000G 00                05 FB 0003A              CALLS   #5, NML$GET_ENTITY_IDS                    ;
                     01                50 E8 00041              BLBS    R0, 2$                                    ;
                                          04 00044              RET                                               ;
                     5B                01 D0 00045 2$:          MOVL    #1, STRTFLG                               ; 1298
                     50           2C   AE 3C 00048              MOVZWL  LISDSC, R0                                ; 1300
                     6E           30 BE40 9E 0004C              MOVAB   @LISDSC+4[R0], BUFEND                     ;
                     58           30   AE D0 00051              MOVL    LISDSC+4, PTR                             ; 1301
                     6E                58 D1 00055 3$:          CMPL    PTR, BUFEND                               ; 1303
                     D4                1E 00058                 BGEQU   1$                                        ;
                     53 00000000'      00 9E 0005A              MOVAB   NML$T_ENTBUFFER, ENTIDPTR                 ; 1306
           00000000' 00           40   8F 9B 00061              MOVZBW  #64, NML$Q_ENTBFDSC                       ; 1307
                     03                57 D1 00069              CMPL    R7, #3                                    ; 1318
                                       20 12 0006C              BNEQ    4$                                        ;
                     58                04 C0 0006E              ADDL2   #4, PTR                                   ; 1321
                     5A                58 D0 00071              MOVL    PTR, ENTITYADD                            ; 1322
                     83                88 B0 00074              MOVW    (PTR)+, (ENTIDPTR)+                       ; 1323
                     58                02 C0 00077              ADDL2   #2, PTR                                   ; 1324
                     59                88 9A 0007A              MOVZBL  (PTR)+, ENTITYLEN                         ; 1326
                                       58 D6 0007D              INCL    PTR                                       ; 1327
                     83                59 90 0007F              MOVB    ENTITYLEN, (ENTIDPTR)+                    ; 1328
        63           68                59 28 00082              MOVC3   ENTITYLEN, (PTR), (ENTIDPTR)              ; 1329
                     58                59 C0 00086              ADDL2   ENTITYLEN, PTR                            ; 1330
                     59                02 D0 00089              MOVL    #2, ENTITYLEN                             ; 1331
                                       75 11 0008C              BRB     12$                                       ; 1316
                     0D                57 D1 0008E 4$:          CMPL    R7, #13                                   ; 1340
                                       05 1F 00091              BLSSU   5$                                        ;
                     10                57 D1 00093              CMPL    R7, #16                                   ;
```

```
                                  0F  1B 00096          BLEQU   6$                                     ;
                      12          57  D1 00098 5$:      CMPL    R7, #18                                ;
                                  0A  13 0009B          BEQL    6$                                     ;
                      14          57  D1 0009D          CMPL    R7, #20                                ;
                                  05  13 000A0          BEQL    6$                                     ;
                      16          57  D1 000A2          CMPL    R7, #22                                ;
                                  5C  12 000A5          BNEQ    12$                                    ;
                      0D          57  D1 000A7 6$:      CMPL    R7, #13                                ; 1350
                                  0A  12 000AA          BNEQ    7$                                     ;
          63 00000000'  00        0B  28 000AC          MOVC3   #11, P.AAE, (ENTIDPTR)                 ; 1351
                                  3F  11 000B4          BRB     11$                                    ;
                      0E          57  D1 000B6 7$:      CMPL    R7, #14                                ; 1352
                                  0F  1F 000B9          BLSSU   8$                                     ;
                      10          57  D1 000BB          CMPL    R7, #16                                ;
                                  0A  1A 000BE          BGTRU   8$                                     ;
          63 00000000'  00        0D  28 000C0          MOVC3   #13, P.AAF, (ENTIDPTR)                 ; 1353
                                  2B  11 000C8          BRB     11$                                    ;
                      12          57  D1 000CA 8$:      CMPL    R7, #18                                ; 1354
                                  0A  12 000CD          BNEQ    9$                                     ;
          63 00000000'  00        0B  28 000CF          MOVC3   #11, P.AAG, (ENTIDPTR)                 ; 1355
                                  1C  11 000D7          BRB     11$                                    ;
                      14          57  D1 000D9 9$:      CMPL    R7, #20                                ; 1356
                                  0A  12 000DC          BNEQ    10$                                    ;
          63 00000000'  00        0A  28 000DE          MOVC3   #10, P.AAH, (ENTIDPTR)                 ; 1357
                                  0D  11 000E6          BRB     11$                                    ;
                      16          57  D1 000E8 10$:     CMPL    R7, #22                                ; 1358
                                  08  12 000EB          BNEQ    11$                                    ;
          63 00000000'  00        0B  28 000ED          MOVC3   #11, P.AAI, (ENTIDPTR)                 ; 1359
                         00000000G0046  9F 000F5 11$:   PUSHAB  NML$AB_ENTITYDATA+1[R6]                ; 1363
                      83          9E  B0 000FC          MOVW    @(SP)+, (ENTIDPTR)+                    ;
                      83      40  8F  90 000FF          MOVB    #64, (ENTIDPTR)+                       ; 1364
                      03          57  D1 00103 12$:     CMPL    R7, #3                                 ; 1369
                                  10  13 00106          BEQL    13$                                    ;
                      59          88  3C 00108          MOVZWL  (PTR)+, ENTITYLEN                      ; 1371
                      5A          58  D0 0010B          MOVL    PTR, ENTITYADD                         ; 1373
                      83          59  90 0010E          MOVB    ENTITYLEN, (ENTIDPTR)+                 ; 1374
          63          6A          59  28 00111          MOVC3   ENTITYLEN, (ENTITYADD), (ENTIDPTR)     ; 1377
                      58          59  C0 00115          ADDL2   ENTITYLEN, PTR                         ; 1378
                      50 00000000'  00  9E 00118 13$:   MOVAB   NML$T_ENTBUFFER, R0                    ; 1381
 00000000'  00        53          50  A3 0011F          SUBW3   R0, ENTIDPTR, NML$Q_ENTBFDSC           ;
                              14  AE  9F 00127          PUSHAB  QBFDSC                                 ; 1385
                       00000000G  00  9F 0012A          PUSHAB  NML$GQ_QIOBFDSC                        ;
                              24  AE  9F 00130          PUSHAB  P2DSC                                  ;
                       00000000'  00  9F 00133          PUSHAB  NML$Q_P2BFDSC                          ;
                              34  AE  9F 00139          PUSHAB  NFBDSC                                 ;
                       00000000'  00  9F 0013C          PUSHAB  NML$Q_NFBBFDSC                         ;
                                  7E  D4 00142          CLRL    -(SP)                                  ;
                      7E          01  CE 00144          MNEGL   #1, -(SP)                              ; 1387
                              24  AE  DD 00147          PUSHL   SRCHKEY2                               ;
                      7E          59  7D 0014A          MOVQ    ENTITYLEN, -(SP)                       ; 1386
                              34  AE  DD 0014D          PUSHL   SRCHKEY1                               ;
                              3C  AE  DD 00150          PUSHL   DB                                     ; 1385
                                  23  DD 00153          PUSHL   #35                                    ;
             00000000G  00        0E  FB 00155          CALLS   #14, NML$BLDSETQBF                     ;
                              14  AE  9F 0015C          PUSHAB  QBFDSC                                 ; 1392
                                  7E  D4 0015F          CLRL    -(SP)                                  ;
                              24  AE  9F 00161          PUSHAB  P2DSC                                  ;
```

```
                                        30    AE  9F 00164          PUSHAB  NFBDSC                                  ;
                        00000000G  00         04  FB 00167          CALLS   #4, NML$NETQIO                          ;
                                   0D         50  E9 0016E          BLBC    R0, 14$                                 ;
                                  00000000G  00  D4 00171           CLRL    NML$AB_MSGBLOCK                         ; 1396
                        00000000G  00         01  90 00177          MOVB    #1, NM[$AB_MSGBLOCK+4                   ; 1397
                        00000000G  00         10  88 0017E 14$:     BISB2   #16, NML$AB_MSGBLOCK                    ; 1403
                        00000000G  00 00000000'  00  9E 00185       MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20      ; 1404
                                        10    AE  9F 00190          PUSHAB  MSGSIZE                                 ; 1408
                                  00000000G  00  9F 00193           PUSHAB  NML$AB_MSGBLOCK                         ;
                        00000000G  00         02  FB 00199          CALLS   #2, NM[$BLD_REPLY                       ;
                                        10    AE  DD 001A0          PUSHL   MSGSIZE                                 ; 1409
                                  00000000G  00  9F 001A3           PUSHAB  NML$AB_SNDBUFFER                        ;
                        00000000G  00         02  FB 001A9          CALLS   #2, NM[$SEND                            ;
                                            FEA2  31 001B0          BRW     3$                                      ; 1303
                                              04     001B3          RET                                             ; 1413

; Routine Size:  436 bytes,    Routine Base:  $CODE$ + 076D


; 1427          1414  1
```

```
1 %SBTTL 'NML_SETKNOWNALL  Set volatile database parameters'
1 ROUTINE NML_SETKNOWNALL (ENTITY, ENTITY_LEN, ENTITY_ADR) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine sets all permanent parameters for the specified
1 !       entity type into the volatile data base.
1 !
1 ! INPUTS:
1 !
1 !       ENTITY          Entity type code.
1 !       ENTITY_LEN      Byte count of entity id string.
1 !       ENTITY_ADR      Address of entity id string.
1 !
1 !--
1
2 BEGIN
2
2 LOCAL
2     bufend,
2     db,                                   ! Database ID
2     srchkey1,                             ! Search key one ID
2     srchkey2,                             ! Search key two ID
2     entityadd,
2     entitylen,
2     fid,                                  ! File id code
2     fldadr,
2     fldsize,
2     key,
2     qual_len,
2     qual_adr,
2     msgsize,
2     owner,                                ! Search key
2     nfbdsc   : DESCRIPTOR,                ! NFB buffer descriptor
2     p2dsc    : DESCRIPTOR,                ! QIO P2 buffer descriptor
2     qbfdsc   : DESCRIPTOR,                ! QIO P2 buffer descriptor
2     recdsc : DESCRIPTOR,                  ! Record descriptor
2     status,
2     rewind_flag,                          ! Used for node database only.  Set at
2                                           !          at the beginning of an operation.
2     tabdes : REF DESCRIPTOR;              ! Table for SET ALL
2
2 !
2 ! Get entity information.
2 !
2 db       = .nml$ab_entitydata [.entity, eit$b_database]; ! Database ID
2 srchkey1 = .nml$ab_entitydata [.entity, eit$l_srch_id1];! Search key one
2 srchkey2 = .nml$ab_entitydata [.entity, eit$l_srch_id2];! Search key two
2 fid      = .nml$ab_entitydata [.entity, eit$b_fileid];   ! File id code
2 owner    = .nml$ab_entitydata [.entity, eit$w_key];      ! Search key
2 tabdes   = .nml$ab_entitydata [.entity, eit$a_alltab];   ! Table for SET ALL
2
2 key = 0;
2 status = nml$_sts_suc;
2 rewind_flag = true;
2 !
```

```
2 ! Keep looking for records in the permanent database which match the entity
2 ! being SET.  For each one found, build QIO buffers containing all the
2 ! parameters in the permanent data base record, and issue the SET to the ACP.
2 ! Note that the entity information passed to NML$MATCHRECORD is normally
2 ! zeros.  It is non zero for commands such as
2 !       SET X25-PROTOCOL GROUP XYZ ALL
2 ! which, although it is a single entity, has one record for each DTE assigned
2 ! to the group.  Therefore, it is a multiple QIO operation.
2 !
2 WHILE .status DO
3     BEGIN
3     !
3     ! The structure of the node permanent database is different from the
3     ! others because it can be much bigger and therefore needs to be faster.
3     !
3     IF .fid NEQ nma$c_opn_node THEN
3         status = nml$matchrecord (.fid, nml$gq_recbfdsc, key,
3                                  .owner, .entity_len, .entity_adr,
3                                  0, 0, 0,
3                                  recdsc)
3     ELSE
4         BEGIN
4         status = nml$read_known_node_rec (.entity, nml$gq_recbfdsc,
4                                   recdsc, .rewind_flag);
4         rewind_flag = false;
3         END;
3     IF .status THEN
4         BEGIN
4         nml$ab_msgblock [msb$b_code] = 0; ! Reset status code
4         !
4         ! Get entity id.
4         !
4         entityadd = 0;
4         status = nma$searchfld (recdsc, .owner, entitylen, entityadd);
4         !
4         ! Get entity id for SET QIO and id string for response message.
4         !
4         SELECTONEU .entity OF
4             SET
4             [nml$c_loopnode]:
5                 BEGIN
5                 !
5                 ! Id for loop node is node name.
5                 !
5                 entityadd = 0;
5                 status = nma$searchfld (recdsc, nma$c_pcno_nna,
5                                         entitylen, entityadd);
4                 END;
4
4             [nml$c_prot_grp]:
4                 !
4                 ! Get the DTE ID from the Group record just read.  The DTE
4                 ! is the second search key ID for the SET QIO.
4                 !
5                 BEGIN
5                 qual_adr = 0;          ! Search from beginning of record.
5                 status = nma$searchfld (recdsc, nma$c_pcxp_gdt,
; 1543           1529 5                                     qual_len, qual_adr);
; 1544           1530 4                 END;
; 1545           1531 4              TES;
; 1546           1532 3           END;
; 1547           1533 3       IF .status THEN
; 1548           1534 4           BEGIN
; 1549           1535 4           !
; 1550           1536 4           ! Build QIO buffer.
; 1551           1537 4           !
; 1552           1538 4           nml$bldalldes (recdsc, .tabdes); ! Build parameter descriptors
; 1553           1539 4           nml$bldsetqbf (nfb$c_fc_set, .db,
; 1554           1540 4                          .srchkey1, .entitylen, .entityadd,
; 1555           1541 4                          .srchkey2, .qual_len, .qual_adr,
; 1556           1542 4                          nml$q_nfbbfdsc, nfbdsc,
; 1557           1543 4                          nml$q_p2bfdsc, p2dsc,
; 1558           1544 4                          nml$gq_qiobfdsc, qbfdsc);
; 1559           1545 4           !
; 1560           1546 4           ! Add the parameters to volatile data base entry.
; 1561           1547 4           !
; 1562           1548 4           IF nml$netqio (nfbdsc, p2dsc, 0, qbfdsc) THEN
; 1563           1549 5              BEGIN
; 1564           1550 5              nml$ab_msgblock [msb$l_flags] = 0;
; 1565           1551 5              nml$ab_msgblock [msb$b_code] = nma$c_sts_suc;
; 1566           1552 4              END;
; 1567           1553 4           !
; 1568           1554 4           ! Add the entity identification to the response message.
; 1569           1555 4           !
; 1570           1556 4           nml$q_entbfdsc [dsc$w_length] = nml$k_entbuflen;
; 1571           1557 4           nml$getrecowner (recdsc,
; 1572           1558 4                          .entity,
; 1573           1559 4                          nml$q_entbfdsc,
; 1574           1560 4                          nml$q_entbfdsc [dsc$w_length]);
; 1575           1561 4
; 1576           1562 4           nml$ab_msgblock [msb$v_entd_fld] = 1;
; 1577           1563 4           nml$ab_msgblock [msb$a_entity] = nml$q_entbfdsc;
; 1578           1564 4           !
; 1579           1565 4           ! Build and send the response message.
; 1580           1566 4           !
; 1581           1567 4           nml$bld_reply (nml$ab_msgblock, msgsize);
; 1582           1568 4           nml$send (nml$ab_sndbuffer, .msgsize);
; 1583           1569 3           END;
; 1584           1570 3       key = .key + 1;                    ! Increment record key
; 1585           1571 2       END;
; 1586           1572 2
; 1587           1573 1 END;                              ! End of NML_SETKNOWNALL



                                         OFFC 00000 NML_SETKNOWNALL:
                                                            .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11         ; 1416
                         5B 00000000G  00  9E 00002         MOVAB   NML$AB_MSGBLOCK, R11                         ;
                         5E            38  C2 00009         SUBL2   #56, SP                                      ;
                         53        04  AC  D0 0000C         MOVL    ENTITY, R3                                   ; 1461
                 50      53            2C  C5 00010         MULL3   #44, R3, R0                                  ;
                         5A 00000000G0040  9A 00014         MOVZBL  NML$AB_ENTITYDATA+5[R0], DB                  ;
```

```
                      00000000G0040  9F 0001C          PUSHAB  NML$AB_ENTITYDATA+6[R0]              ; 1462
                 59              9E  D0 00023          MOVL    @(SP)+, SRCHKEY1                     ;
                      00000000G0040  9F 00026          PUSHAB  NML$AB_ENTITYDATA+10[R0]             ; 1463
                 58              9E  D0 0002D          MOVL    @(SP)+, SRCHKEY2                     ;
                 56   00000000G0040  9A 00030          MOVZBL  NML$AB_ENTITYDATA[R0], FID           ; 1464
                      00000000G0040  9F 00038          PUSHAB  NML3AB_ENTITYDATA+3[R0]              ; 1465
                 55              9E  3C 0003F          MOVZWL  @(SP)+, OWNER                        ;
                      00000000G0040  9F 00042          PUSHAB  NML$AB_ENTITYDATA+40[R0]             ; 1466
                 57              9E  D0 00049          MOVL    @(SP)+, TABDES                       ;
                                 6E  D4 0004C          CLRL    KEY                                  ; 1468
                 52              01  D0 0004E          MOVL    #1, STATUS                           ; 1469
                 54              01  D0 00051          MOVL    #1, REWIND_FLAG                      ; 1470
                 01              52  E8 00054 1$:      BLBS    STATUS, 2$                           ; 1481
                                     04 00057          RET                                          ;
                                 56  D5 00058 2$:      TSTL    FID                                  ; 1487
                                 24  13 0005A          BEQL    3$                                   ;
                           18    AE  9F 0005C          PUSHAB  RECDSC                               ; 1488
                                 7E  7C 0005F          CLRQ    -(SP)                                ;
                                 7E  D4 00061          CLRL    -(SP)                                ;
                 7E        08    AC  7D 00063          MOVQ    ENTITY_LEN, -(SP)                    ; 1489
                                 55  DD 00067          PUSHL   OWNER                                ;
                           1C    AE  9F 00069          PUSHAB  KEY                                  ; 1488
                      00000000G  00  9F 0006C          PUSHAB  NML$GQ_RECBFDSC                      ;
                                 56  DD 00072          PUSHL   FID                                  ;
      00000000G  00              0A  FB 00074          CALLS   #10, NML$MATCHRECORD                 ;
                 52              50  D0 0007B          MOVL    R0, STATUS                           ;
                                 19  11 0007E          BRB     4$                                   ;
                                 54  DD 00080 3$:      PUSHL   REWIND_FLAG                          ; 1495
                           1C    AE  9F 00082          PUSHAB  RECDSC                               ; 1494
                      00000000G  00  9F 00085          PUSHAB  NML$GQ_RECBFDSC                      ;
                                 53  DD 0008B          PUSHL   R3                                   ;
      00000000G  00              04  FB 0008D          CALLS   #4, NML$READ_KNOWN_NODE_REC          ;
                 52              50  D0 00094          MOVL    R0, STATUS                           ;
                                 54  D4 00097          CLRL    REWIND_FLAG                          ; 1496
                 50              52  E9 00099 4$:      BLBC    STATUS, 7$                           ; 1498
                           04    AB  94 0009C          CLRB    NML$AB_MSGBLOCK+4                    ; 1500
                           04    AE  D4 0009F          CLRL    ENTITYADD                            ; 1504
                           04    AE  9F 000A2          PUSHAB  ENTITYADD                            ; 1505
                           0C    AE  9F 000A5          PUSHAB  ENTITYLEN                            ;
                                 55  DD 000A8          PUSHL   OWNER                                ;
                           24    AE  9F 000AA          PUSHAB  RECDSC                               ;
      00000000G  00              04  FB 000AD          CALLS   #4, NMA$SEARCHFLD                    ;
                 52              50  D0 000B4          MOVL    R0, STATUS                           ;
                 05              53  D1 000B7          CMPL    R3, #5                               ; 1511
                                 10  12 000BA          BNEQ    5$                                   ;
                           04    AE  D4 000BC          CLRL    ENTITYADD                            ; 1516
                           04    AE  9F 000BF          PUSHAB  ENTITYADD                            ; 1517
                           0C    AE  9F 000C2          PUSHAB  ENTITYLEN                            ;
                 7E      01F4    8F  3C 000C5          MOVZWL  #500, -(SP)                          ;
                                 13  11 000CA          BRB     6$                                   ;
                 10              53  D1 000CC 5$:      CMPL    R3, #16                              ; 1521
                                 1B  12 000CF          BNEQ    7$                                   ;
                           0C    AE  D4 000D1          CLRL    QUAL_ADR                             ; 1527
                           0C    AE  9F 000D4          PUSHAB  QUAL_ADR                             ; 1528
                           14    AE  9F 000D7          PUSHAB  QUAL_LEN                             ;
                 7E      0492    8F  3C 000DA          MOVZWL  #1170, -(SP)                         ;
                           24    AE  9F 000DF 6$:      PUSHAB  RECDSC                               ;
```

```
                            00000000G  00            04  FB 000E2         CALLS   #4, NMA$SEARCHFLD                           ;
                                       52            50  D0 000E9         MOVL    R0, STATUS                                  ;
                                       03            52  E8 000EC 7$:     BLBS    STATUS, 8$                                  ; 1533
                                                   00A4  31 000EF         BRW     10$                                         ;
                                                     57  DD 000F2 8$:     PUSHL   TABDES                                      ; 1538
                                                1C   AE  9F 000F4         PUSHAB  RECDSC                                      ;
                            00000000G  00            02  FB 000F7         CALLS   #2, NML$BLDALLDES                           ;
                                                20   AE  9F 000FE         PUSHAB  QBFDSC                                      ; 1539
                                          00000000G  00  9F 00101         PUSHAB  NML$GQ_QIOBFDSC                             ;
                                                30   AE  9F 00107         PUSHAB  P2DSC                                       ;
                                          00000000'  00  9F 0010A         PUSHAB  NML$Q_P2BFDSC                               ;
                                                40   AE  9F 00110         PUSHAB  NFBDSC                                      ;
                                          00000000'  00  9F 00113         PUSHAB  NML$Q_NFBBFDSC                              ;
                                                24   AE  DD 00119         PUSHL   QUAL_ADR                                    ; 1541
                                                2C   AE  DD 0011C         PUSHL   QUAL_LEN                                    ;
                                                     58  DD 0011F         PUSHL   SRCHKEY2                                    ;
                                                28   AE  DD 00121         PUSHL   ENTITYADD                                   ; 1540
                                                30   AE  DD 00124         PUSHL   ENTITYLEN                                   ;
                                                     59  DD 00127         PUSHL   SRCHKEY1                                    ;
                                                     5A  DD 00129         PUSHL   DB                                          ; 1539
                                                     23  DD 0012B         PUSHL   #35                                         ;
                            00000000G  00            0E  FB 0012D         CALLS   #14, NML$BLDSETQBF                          ;
                                                20   AE  9F 00134         PUSHAB  QBFDSC                                      ; 1548
                                                     7E  D4 00137         CLRL    -(SP)                                       ;
                                                30   AE  9F 00139         PUSHAB  P2DSC                                       ;
                                                3C   AE  9F 0013C         PUSHAB  NFBDSC                                      ;
                            00000000G  00            04  FB 0013F         CALLS   #4, NML$NETQIO                              ;
                                       06            50  E9 00146         BLBC    R0, 9$                                      ;
                                                     6B  D4 00149         CLRL    NML$AB_MSGBLOCK                             ; 1550
                                  04   AB            01  90 0014B         MOVB    #1, NML$AB_MSGBLOCK+4                       ; 1551
                            00000000'  00       40   8F  9B 0014F 9$:     MOVZBW  #64, NML$Q_ENTBFDSC                         ; 1556
                                          00000000'  00  9F 00157         PUSHAB  NML$Q_ENTBFDSC                              ; 1560
                                          00000000'  00  9F 0015D         PUSHAB  NML$Q_ENTBFDSC                              ; 1557
                                                     53  DD 00163         PUSHL   R3                                          ; 1560
                                                24   AE  9F 00165         PUSHAB  RECDSC                                      ; 1557
                            00000000G  00            04  FB 00168         CALLS   #4, NML$GETRECOWNER                         ; 1560
                                       6B            10  88 0016F         BISB2   #16, NML$AB_MSGBLOCK                        ; 1562
                                  14   AB 00000000'  00  9E 00172         MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20          ; 1563
                                                14   AE  9F 0017A         PUSHAB  MSGSIZE                                     ; 1567
                                                     5B  DD 0017D         PUSHL   R11                                         ;
                            00000000G  00            02  FB 0017F         CALLS   #2, NML$BLD_REPLY                           ;
                                                14   AE  DD 00186         PUSHL   MSGSIZE                                     ; 1568
                                          00000000G  00  9F 00189         PUSHAB  NML$AB_SNDBUFFER                            ;
                            00000000G  00            02  FB 0018F         CALLS   #2, NML$SEND                                ;
                                                     6E  D6 00196 10$:    INCL    KEY                                         ; 1570
                                                   FEB9  31 00198         BRW     1$                                          ; 1481
                                                         04 0019B         RET                                                 ; 1573

; Routine Size:  412 bytes,    Routine Base:  $CODE$ + 0921
```

```
1 %SBTTL 'NML_SETEXE  Set executor parameters'
1 ROUTINE NML_SETEXE : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine adds the specified parameters to the volatile data base
1 !       entry for the executor node.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       NONE
1 !
1 !--
1
2    BEGIN
2
2    LOCAL
2       DB,                             ! Database ID
2       SRCHKEY1,                       ! Search key one ID
2       SRCHKEY2,                       ! Search key two ID
2       ENTITYADD,
2       ENTITYLEN,
2       MSGSIZE,
2       NODADDR,
2       NFBDSC    : DESCRIPTOR,         ! NFB buffer descriptor
2       P2DSC     : DESCRIPTOR,         ! QIO P2 buffer descriptor
2       QBFDSC    : DESCRIPTOR;         ! QIO P2 buffer descriptor
2
2 !
2 ! Add the entity identification to the message.
2 !
2 NML$GETEXEID (NML$Q_ENTBFDSC, NML$Q_ENTBFDSC [DSC$W_LENGTH]);
2 NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = T;
2 NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
2
2 !
2 ! If executor specific parameters, use the local node database,
2 ! otherwise, use the node database.
2 !
```

```
; 1646        1631  2 SRCHKEY2 = NFB$C_WILDCARD;
; 1647        1632  2 IF .NML$GL_PRS_F[GS [NML$V_PRS_EXEP']
; 1648        1633  2     THEN
; 1649        1634  3         BEGIN
; 1650        1635  3
; 1651        1636  3         DB = NFB$C_DB_LNI;
; 1652        1637  3         SRCHKEY1 = NFB$C_WILDCARD;
; 1653        1638  3         ENTITYLEN = -1;                          ! No id necessary for
; 1654        1639  3         ENTITYADD = 0;                           !  executor parameters
; 1655        1640  3
; 1656        1641  3         END
; 1657        1642  2     ELSE
; 1658        1643  3         BEGIN
; 1659        1644  3
; 1660        1645  3         DB = NFB$C_DB_NDI;
; 1661        1646  3         SRCHKEY1 = NFB$C_NDI_ADD;
; 1662        1647  3         NODADDR = 0;                             ! Zero node address
; 1663        1648  3         ENTITYLEN = 2;
; 1664        1649  3         ENTITYADD = NODADDR;
; 1665        1650  3
; 1666        1651  2         END;
; 1667        1652  2
; 1668        1653  2   NML$BLDSETQBF (NFB$C_FC_SET, .DB,
; 1669        1654  2                 .SRCHKEY1, .ENTITYLEN, .ENTITYADD,
; 1670        1655  2                 .SRCHKEY2, -1, 0,
; 1671        1656  2                 NML$Q_NFBBFDSC, NFBDSC,
; 1672        1657  2                 NML$Q_P2BFDSC,  P2DSC,
; 1673        1658  2                 NML$GQ_QIOBFDSC, QBFDSC);
; 1674        1659  2 !
; 1675        1660  2 ! Add the parameters to volatile data base entry.
; 1676        1661  2 !
; 1677        1662  2 IF NML$NETQIO (NFBDSC, P2DSC, 0, QBFDSC) THEN
; 1678        1663  3     BEGIN
; 1679        1664  3     NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
; 1680        1665  3     NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
; 1681        1666  2     END;
; 1682        1667  2 !
; 1683        1668  2 ! Build and signal the response message.
; 1684        1669  2 !
; 1685        1670  2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
; 1686        1671  2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
; 1687        1672  2
; 1688        1673  1 END;                                  ! End of NML_SETEXE



                                          007C 00000 NML_SETEXE:
                                                             .WORD   Save R2,R3,R4,R5,R6                        ; 1575
                   56 00000000'    00  9E 00002              MOVAB   NML$Q_ENTBFDSC, R6                         ;
                   55 00000000G    00  9E 00009              MOVAB   NML$AB_MSGBLOCK, R5                        ;
                   5E              20  C2 00010              SUBL2   #32, SP                                    ;
                                   56  DD 00013              PUSHL   R6                                         ; 1623
                                   56  DD 00015              PUSHL   R6                                         ;
          00000000G  00            02  FB 00017              CALLS   #2, NML$GETEXEID                           ;
                     65            10  88 0001E              BISB2   #16, NML$AB_MSGBLOCK                       ; 1624
```

```
                  14    A5                66  9E 00021         MOVAB   NML$Q_ENTBFDSC, NML$AB_MSGBLOCK+20       ; 1625
                        54                01  D0 00025         MOVL    #1, SRCHKEY2                             ; 1631
                        0D 00000000G      00  E9 00028         BLBC    NML$GL_PRS_FLGS+1, 1$                    ; 1632
                        53                01  D0 0002F         MOVL    #1, DB                                   ; 1636
                        52                01  D0 00032         MOVL    #1, SRCHKEY1                             ; 1637
                        51                01  CE 00035         MNEGL   #1, ENTITYLEN                            ; 1638
                                          50  D4 00038         CLRL    ENTITYADD                                ; 1639
                                          12  11 0003A         BRB     2$                                       ; 1632
                        53                02  D0 0003C 1$:     MOVL    #2, DB                                   ; 1645
                        52 02010012       8F  D0 0003F         MOVL    #33619986, SRCHKEY1                      ; 1646
                                          6E  D4 00046         CLRL    NODADDR                                  ; 1647
                        51                02  D0 00048         MOVL    #2, ENTITYLEN                            ; 1648
                        50                6E  9E 0004B         MOVAB   NODADDR, ENTITYADD                       ; 1649
                                  08      AE  9F 0004E 2$:     PUSHAB  QBFDSC                                   ; 1653
                           00000000G      00  9F 00051         PUSHAB  NML$GQ_QIOBFDSC                          ;
                                  18      AE  9F 00057         PUSHAB  P2DSC                                    ;
                           00000000'      00  9F 0005A         PUSHAB  NML$Q_P2BFDSC                            ;
                                  28      AE  9F 00060         PUSHAB  NFBDSC                                   ;
                           00000000'      00  9F 00063         PUSHAB  NML$Q_NFBBFDSC                           ;
                                          7E  D4 00069         CLRL    -(SP)                                    ;
                        7E                01  CE 0006B         MNEGL   #1, -(SP)                                ; 1655
                                          11  BB 0006E         PUSHR   #^M<R0,R4>                               ; 1654
                                          51  DD 00070         PUSHL   ENTITYLEN                                ;
                                          52  DD 00072         PUSHL   SRCHKEY1                                 ;
                                          53  DD 00074         PUSHL   DB                                       ; 1653
                                          23  DD 00076         PUSHL   #35                                      ;
            00000000G   00                0E  FB 00078         CALLS   #14, NML$BLDSETQBF                       ;
                                  08      AE  9F 0007F         PUSHAB  QBFDSC                                   ; 1662
                                          7E  D4 00082         CLRL    -(SP)                                    ;
                                  18      AE  9F 00084         PUSHAB  P2DSC                                    ;
                                  24      AE  9F 00087         PUSHAB  NFBDSC                                   ;
            00000000G   00                04  FB 0008A         CALLS   #4, NML$NETQIO                           ;
                        06                50  E9 00091         BLBC    R0, 3$                                   ;
                                          65  D4 00094         CLRL    NML$AB_MSGBLOCK                          ; 1664
                  04    A5                01  90 00096         MOVB    #1, NML$AB_MSGBLOCK+4                    ; 1665
                                  04      AE  9F 0009A 3$:     PUSHAB  MSGSIZE                                  ; 1670
                                          55  DD 0009D         PUSHL   R5                                       ;
            00000000G   00                02  FB 0009F         CALLS   #2, NML$BLD_REPLY                        ;
                                  04      AE  DD 000A6         PUSHL   MSGSIZE                                  ; 1671
                           00000000G      00  9F 000A9         PUSHAB  NML$AB_SNDBUFFER                         ;
            00000000G   00                02  FB 000AF         CALLS   #2, NML$SEND                             ;
                                              04 000B6         RET                                              ; 1673

; Routine Size:  183 bytes,    Routine Base:  $CODE$ + 0ABD
```

```
1 %SBTTL 'NML_SETEXEALL  Set all executor parameters'
1 ROUTINE NML_SETEXEALL : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine sets all executor parameters from the permanent data base
1 !       into the volatile data base.
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       This routine assumes the node data base file is open.
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 ! COMPLETION CODES:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       NONE
1 !
1 !--
1
2 BEGIN
2
2 LOCAL
2     exeadr,
2     fid,
2     key,
2     msgsize,
2     nfbdsc   : DESCRIPTOR,              ! NFB buffer descriptor
2     p2dsc    : DESCRIPTOR,              ! QIO P2 buffer descriptor
2     qbfdsc   : DESCRIPTOR,              ! QIO P2 buffer descriptor
2     recdsc   : DESCRIPTOR,
2     dummy,
2     status;
2 !
2 ! Read executor node record.  If one does not exist then create a
2 ! descriptor for a null record.
2 !
2 key = .nml$ab_entitydata [nml$c_executor, eit$w_key];
2 IF NOT nml$readrecord (nma$c_opn_node,
2                         key,
2                         UPLIT (nmn$c_typ_key_len,
2                                UPLIT (nml$c_executor)),
2                         nml$gq_recbfdsc,
2                         recdsc,
2                         dummy) THEN
```

```
3	    BEGIN
3	    recdsc [dsc$w_length]  = 0;
3	    recdsc [dsc$a_pointer] = .nml$gq_recbfdsc [dsc$a_pointer] +
3	                                   nmn$c_node_keys_len;
2	    END;
2	!
2	! Build a parameter descriptor for each parameter that is set in the record
2	! and set it in the volatile data base.
2	!
2	nml$bldalldes (recdsc,
2	           .nml$ab_entitydata [nml$c_executor, eit$a_alltab]);
2	nml$bldsetqbf (nfb$c_fc_set, nfb$c_db_lni,
2	               nfb$c_wildcard, -1, 0,
2	               nfb$c_wildcard, -1, 0,
2	               nml$q_nfbbfdsc, nfbdsc,
2	               nml$q_p2bfdsc, p2dsc,
2	               nml$gq_qiobfdsc, qbfdsc);
2	status = nml$netqio (nfbdsc, p2dsc, 0, qbfdsc);
2	!
2	! If the first operation was successful then repeat the operation for the
2	! parameters that the executor has in common with remote nodes.  Otherwise
2	! send an error response message.
2	!
2	IF .status THEN
3	    BEGIN
3	    nml$bldalldes (recdsc, .nml$ab_entitydata [nml$c_node, eit$a_alltab])
3	    exeadr = 0;
3	    nml$bldsetqbf (nfb$c_fc_set, nfb$c_db_ndi,
3	                   nfb$c_ndi_add, 0, exeadr,
3	                   nfb$c_wildcard, -1, 0,
3	                   nml$q_nfbbfdsc, nfbdsc,
3	                   nml$q_p2bfdsc, p2dsc,
3	                   nml$gq_qiobfdsc, qbfdsc);
3
3	    IF nml$netqio (nfbdsc, p2dsc, 0, qbfdsc) THEN
4	        BEGIN
4	        nml$ab_msgblock [msb$l_flags] = 0;
4	        nml$ab_msgblock [msb$b_code] = nma$c_sts_suc; ! Successful
3	        END;
2	    END;
2	!
2	! Add the executor entity descriptor to the message.
2	!
2	nml$q_entbfdsc [dsc$w_length] = nml$k_entbuflen;
2	nml$getrecowner (recdsc,
2	                 nml$c_executor,
2	                 nml$q_entbfdsc,
2	                 nml$q_entbfdsc [dsc$w_length]);
2
2	nml$ab_msgblock [msb$v_entd_fld] = 1;
2	nml$ab_msgblock [msb$a_entity] = nml$q_entbfdsc;
2	!
2	! Build and send the response message.
2	!
2	nml$bld_reply (nml$ab_msgblock, msgsize);
2	nml$send (nml$ab_sndbuffer, .msgsize);
2
```

```
; 1804           1788  1 END;                           ! End of NML_SETEXEALL



                                                         .PSECT  $PLIT$,NOWRT,NOEXE,2

                                  00000007  00058 P.AAK:  .LONG   7                                                  :
                                  00000002  0005C P.AAJ:  .LONG   2                                                  :
                                  00000000' 00060         .ADDRESS P.AAK                                             :


                                                         .PSECT  $CODE$,NOWRT,2

                                      03FC 00000 NML_SETEXEALL:
                                                         .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9                       ; 1675
                         59 00000000G  00  9E 00002      MOVAB   NML$NETQIO, R9                                     :
                         58 00000000G  00  9E 00009      MOVAB   NML$BLDSETQBF, R8                                  :
                         57 00000000G  00  9E 00010      MOVAB   NML$GQ_QIOBFDSC, R7                                :
                         56 00000000G  00  9E 00017      MOVAB   NML$BLDALLDES, R6                                  :
                         55 00000000G  00  9E 0001E      MOVAB   NML$AB_ENTITYDATA+311, R5                          :
                         54 00000000'  00  9E 00025      MOVAB   NML$Q_ENTBFDSC, R4                                 :
                         53 C0000000G  00  9E 0002C      MOVAB   NML$AB_MSGBLOCK, R3                                :
                         52 00000000'  00  9E 00033      MOVAB   NML$Q_P2BFDSC, R2                                  :
                         5E            30  C2 0003A      SUBL2   #48, SP                                            :
                   04    AE            65  3C 0003D      MOVZWL  NML$AB_ENTITYDATA+311, KEY                         ; 1723
                                       5E  DD 00041      PUSHL   SP                                                 ; 1724
                                  14   AE  9F 00043      PUSHAB  RECDSC                                             :
                            00000000G  00  9F 00046      PUSHAB  NML$GQ_RECBFDSC                                    :
                                  4C   A2  9F 0004C      PUSHAB  P.AAJ                                              ; 1726
                                  14   AE  9F 0004F      PUSHAB  KEY                                                ; 1724
                                       7E  D4 00052      CLRL    -(SP)                                              :
           00000000G     00            06  FB 00054      CALLS   #6, NML$READRECORD                                 :
                         0C            50  E8 0005B      BLBS    R0, 1$                                             :
                                  10   AE  B4 0005E      CLRW    RECDSC                                             ; 1732
      14    AE 00000000G 00            0A  C1 00061      ADDL3   #10, NML$GQ_RECBFDSC+4, RECDSC+4                   ; 1733
                                  25   A5  DD 0006A 1$:  PUSHL   NML$AB_ENTITYDATA+348                              ; 1741
                                  14   AE  9F 0006D      PUSHAB  RECDSC                                             ; 1740
                         66            02  FB 00070      CALLS   #2, NML$BLDALLDES                                  :
                                  18   AE  9F 00073      PUSHAB  QBFDSC                                             ; 1742
                                       57  DD 00076      PUSHL   R7                                                 :
                                  28   AE  9F 00078      PUSHAB  P2DSC                                              :
                                       52  DD 0007B      PUSHL   R2                                                 :
                                  38   AE  9F 0007D      PUSHAB  NFBDSC                                             :
                                  F8   A2  9F 00080      PUSHAB  NML$Q_NFBBFDSC                                     :
                                       7E  D4 00083      CLRL    -(SP)                                              :
                         7E            01  CE 00085      MNEGL   #1, -(SP)                                          ; 1744
                                       01  DD 00088      PUSHL   #1                                                 ; 1742
                                       7E  D4 0008A      CLRL    -(SP)                                              :
                         7E            01  CE 0008C      MNEGL   #1, -(SP)                                          ; 1743
                                       01  DD 0008F      PUSHL   #1                                                 ; 1742
                                       01  DD 00091      PUSHL   #1                                                 :
                                       23  DD 00093      PUSHL   #35                                                :
                         68            0E  FB 00095      CALLS   #14, NML$BLDSETQBF                                 :
                                  18   AE  9F 00098      PUSHAB  QBFDSC                                             ; 1748
                                       7E  D4 0009B      CLRL    -(SP)                                              :
                                  28   AE  9F 0009D      PUSHAB  P2DSC                                              :
```

```
                             34    AE  9F 000A0           PUSHAB  NFBDSC                                           ;
                  69               04  FB 000A3           CALLS   #4, NMLSNETQIO                                   ;
                  4D               50  E9 000A6           BLBC    STATUS, 2$                                       ; 1754
                           FF75    C5  DD 000A9           PUSHL   NMLSAB_ENTITYDATA+172                            ; 1756
                             14    AE  9F 000AD           PUSHAB  RECDSC                                           ;
                  66               02  FB 000B0           CALLS   #2, NMLSBLDALLDES                                ;
                             08    AE  D4 000B3           CLRL    EXEADR                                           ; 1757
                             18    AE  9F 000B6           PUSHAB  QBFDSC                                           ; 1758
                                   57  DD 000B9           PUSHL   R7                                               ;
                             28    AE  9F 000BB           PUSHAB  P2DSC                                            ;
                                   52  DD 000BE           PUSHL   R2                                               ;
                             38    AE  9F 000C0           PUSHAB  NFBDSC                                           ;
                             F8    A2  9F 000C3           PUSHAB  NMLSQ_NFBBFDSC                                   ;
                                   7E  D4 000C6           CLRL    -(SP)                                            ;
                  7E               01  CE 000C8           MNEGL   #1, -(SP)                                        ; 1760
                                   01  DD 000CB           PUSHL   #1                                               ; 1758
                             2C    AE  9F 000CD           PUSHAB  EXEADR                                           ;
                                   7E  D4 000D0           CLRL    -(SP)                                            ;
                       02010012    8F  DD 000D2           PUSHL   #33619986                                        ;
                                   02  DD 000D8           PUSHL   #2                                               ;
                                   23  DD 000DA           PUSHL   #35                                              ;
                  68               0E  FB 000DC           CALLS   #14, NMLSBLDSETQBF                               ;
                             18    AE  9F 000DF           PUSHAB  QBFDSC                                           ; 1765
                                   7E  D4 000E2           CLRL    -(SP)                                            ;
                             28    AE  9F 000E4           PUSHAB  P2DSC                                            ;
                             34    AE  9F 000E7           PUSHAB  NFBDSC                                           ;
                  69               04  FB 000EA           CALLS   #4, NMLSNETQIO                                   ;
                  06               50  E9 000ED           BLBC    R0, 2$                                           ;
                                   63  D4 000F0           CLRL    NMLSAB_MSGBLOCK                                  ; 1767
           04     A3               01  90 000F2           MOVB    #1, NML$AB_MSGBLOCK+4                            ; 1768
                  64         40    8F  9B 000F6 2$:       MOVZBW  #64, NMLSQ_ENTBFDSC                              ; 1774
                                   54  DD 000FA           PUSHL   R4                                               ; 1778
                                   54  DD 000FC           PUSHL   R4                                               ; 1775
                                   07  DD 000FE           PUSHL   #7                                               ; 1778
                             1C    AE  9F 00100           PUSHAB  RECDSC                                           ; 1775
    00000000G     00               04  FB 00103           CALLS   #4, NMLSGETRECOWNER                              ; 1778
                  63               10  88 0010A           BISB2   #16, NMLSAB_MSGBLOCK                             ; 1780
           14     A3               64  9E 0010D           MOVAB   NMLSQ_ENTBFDSC, NMLSAB_MSGBLOCK+20               ; 1781
                             0C    AE  9F 00111           PUSHAB  MSGSIZE                                          ; 1785
                                   53  DD 00114           PUSHL   R3                                               ;
    00000000G     00               02  FB 00116           CALLS   #2, NMLSBLD_REPLY                                ;
                             0C    AE  DD 0011D           PUSHL   MSGSIZE                                          ; 1786
                      00000000G    00  9F 00120           PUSHAB  NMLSAB_SNDBUFFER                                 ;
    00000000G     00               02  FB 00126           CALLS   #2, NML$SEND                                     ;
                                   04  00120              RET                                                      ; 1788

; Routine Size:  302 bytes,    Routine Base:  $CODE$ + 0874
```

```
1 %SBTTL 'NML$SET_NI_CONFIG  Set Configurator Module volatile database parameters'
1 GLOBAL ROUTINE NML$SET_NI_CONFIG (ENTITY, ENTITY_LEN, ENTITY_ADR) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine reads the permanent database for the Configurator
1 !       Module and builds NICE SET messages to set up the config volatile
1 !       database.  It forwards these messages to the Configurator
1 !       Module for processing.
1 !
1 ! INPUTS:
1 !
1 !       ENTITY          Entity type code.
1 !       ENTITY_LEN      Byte count of entity id string.
1 !       ENTITY_ADR      Address of entity id string.
1 !
1 !--
1
2 BEGIN
2
2 LOCAL
2       FID,                            ! File id code
2       KEY,
2       OWNER,                          ! Search key
2       FLDSIZE,
2       FLDADR,
2       CPT_INDEX,
2       PST_INDEX,
2       RECDSC : DESCRIPTOR,            ! Record descriptor
2       STATUS,
2       TABDES : REF DESCRIPTOR,        ! Table for SET ALL
2       PTR;
2 !
2 ! If it's not a SET ALL command, simply forward the set command to the
2 ! Configurator module for processing.
2 !
2 IF NOT .NML$GL_PRS_FLGS [NML$V_PRS_ALL] THEN
3     BEGIN
3     NML$CALL_NI_CONFIG ();
3     RETURN;
2     END;
2 !
2 ! It's a SET ALL command.  Prepare to access the permanent database.
2 ! Get entity information from Entity Table.
2 !
2 FID     = .NML$AB_ENTITYDATA [.ENTITY, EIT$B_FILEID]; ! File id code
2 OWNER   = .NML$AB_ENTITYDATA [.ENTITY, EIT$W_KEY];    ! Search key
2 TABDES  = .NML$AB_ENTITYDATA [.ENTITY, EIT$A_ALLTAB];
2
2 KEY = 0;
2 !
2 ! For each circuit record in the permanent database, forward one SET command
2 ! to the Configurator Module.
2 !
2 WHILE NML$MATCHRECORD (.FID, NML$GQ_RECBFDSC, KEY,
2                         .OWNER, .ENTITY_LEN, .ENTITY_ADR,
2                           0, 0, 0,
2                           RECDSC) DO
2       !
2       ! Build NICE message to forward to the Configurator Module.  Since
2       ! I am processing a SET MODULE CONFIGURATOR ... ALL command, the
2       ! function code, option byte, and entity ID (CONFIGURATOR) are already
2       ! in the buffer.
2       !
3       BEGIN
3       PTR = NML$AB_RCVBUFFER + 15;
3       INCR I FROM 0 TO .TABDES [DSC$W_LENGTH] - 1 DO
4           BEGIN
4
4           BIND
4               TABLE = TABDES [DSC$A_POINTER] : REF BLOCK;
4
4           FLDADR = 0;
4           !
4           ! If the parameter in the SET ALL table is in the permanent database
4           ! record, add it to the NICE SET command.
4           !
4           IF NMA$SEARCHFLD (RECDSC,
4                           .TABLE [.I, 0, 16, 0],
4                           FLDSIZE,
4                           FLDADR) THEN
5               BEGIN
5               !
5               ! Add the NICE parameter ID
5               !
5               PTR = CH$MOVE (2, TABLE [.I, 0, 16, 0], .PTR);
5               !
5               ! If it's a string, add the string length.  The PST table indicates
5               ! if it's a string.
5               !
5               CPT_INDEX = .TABLE [.I, 16, 16, 0];
5               PST_INDEX = .NML$AB_CPTABLE [.CPT_INDEX, CPT$W_PSTINDEX];
5               IF .NML$AB_PRMSEM [.PST_INDEX, PST$B_FORMAT] EQL NML$K_STRING THEN
5                   CH$WCHAR_A (.FLDSIZE, PTR);
5               !
5               ! Add the parameter value to the SET command.
5               !
5               PTR = CH$MOVE (.FLDSIZE, .FLDADR, .PTR);
4               END;
3           END;
3       !
3       ! Send the SET command to the Configurator Module.  It will put the
3       ! circuit into it's database, and return a response, which
3       ! NML$CALL_NI_CONFIG will then forward to NCP.
3       !
3       NML$GL_RCVDATLEN = .PTR - NML$AB_RCVBUFFER;
3       NML$CALL_NI_CONFIG ();
3       !
3       ! If it's a SET ALL for one circuit, quit here.
3       !
3       IF .NML$GB_ENTITY_FORMAT NEQ (NMA$C_ENT_KNO AND %X'FF') THEN
3           EXITLOOP;
3       KEY = .KEY + 1;                     ! Increment record key
```

```
; 1920          1903  2     END;
; 1921          1904  2
; 1922          1905  1 END;                            ! End of NML$SET_NI_CONFIG
```

```
                                                       0FFC 00000         .ENTRY  NML$SET_NI_CONFIG, Save R2,R3,R4,R5,R6,R7,-  ; 1790
                                                                                  R8,R9,R10,R11                                ;
                                       5E            1C  C2 00002         SUBL2   #28, SP                                      ;
                         08 00000000G  00            01  E0 00005         BBS     #1, NML$GL_PRS_FLGS, 1$                      ; 1826
                            00000000G  00            00  FB 0000D         CALLS   #0, NML$CALL_NI_CONFIG                       ; 1828
                                                         04 00014         RET                                                  ; 1827
                         50       04   AC            2C  C5 00015 1$:     MULL3   #44, ENTITY, R0                              ; 1835
                                  04   AE 00000000G0040  9A 0001A         MOVZBL  NML$AB_ENTITYDATA[R0], FID                   ;
                                          00000000G0040  9F 00023         PUSHAB  NML$AB_ENTITYDATA+3[R0]                      ; 1836
                                       6E            9E  3C 0002A         MOVZWL  @(SP)+, OWNER                                ;
                                          00000000G0040  9F 0002D         PUSHAB  NML$AB_ENTITYDATA+40[R0]                     ; 1837
                                       56            9E  D0 00034         MOVL    @(SP)+, TABDES                               ;
                                                08   AE  D4 00037         CLRL    KEY                                          ; 1839
                                       5A       04   A6  9E 0003A         MOVAB   4(R6), R10                                   ; 1860
                                                14   AE  9F 0003E 2$:     PUSHAB  RECDSC                                       ; 1844
                                                     7E  7C 00041         CLRQ    -(SP)                                        ;
                                                     7E  D4 00043         CLRL    -(SP)                                        ;
                                       7E       08   AC  7D 00045         MOVQ    ENTITY_LEN, -(SP)                            ; 1845
                                                18   AE  DD 00049         PUSHL   OWNER                                        ;
                                                24   AE  9F 0004C         PUSHAB  KEY                                          ; 1844
                                          00000000G  00  9F 0004F         PUSHAB  NML$GQ_RECBFDSC                              ;
                                                28   AE  DD 00055         PUSHL   FID                                          ;
                            00000000G  00            0A  FB 00058         CALLS   #10, NML$MATCHRECORD                         ;
                                       01            50  E8 0005F         BLBS    R0, 3$                                       ;
                                                         04 00062         RET                                                  ;
                                       53 00000000G  00  9E 00063 3$:     MOVAB   NML$AB_RCVBUFFER+15, PTR                     ; 1855
                                       5B            66  3C 0006A         MOVZWL  (TABDES), R11                                ; 1856
                                       59            01  CE 0006D         MNEGL   #1, I                                        ;
                                                     51  11 00070         BRB     6$                                           ;
                                                0C   AE  D4 00072 4$:     CLRL    FLDADR                                       ; 1862
                                                0C   AE  9F 00075         PUSHAB  FLDADR                                       ; 1867
                                                14   AE  9F 00078         PUSHAB  FLDSIZE                                      ;
                                                00 BA49  DF 0007B         PUSHAL  @0(R10)[I]                                   ; 1868
                                       7E            9E  3C 0007F         MOVZWL  @(SP)+, -(SP)                                ;
                                                20   AE  9F 00082         PUSHAB  RECDSC                                       ; 1867
                            00000000G  00            04  FB 00085         CALLS   #4, NMA$SEARCHFLD                            ;
                                       34            50  E9 0008C         BLBC    R0, 6$                                       ;
                                       83       00 BA49  F7 0008F         CVTLW   @0(R10)[I], (PTR)+                           ; 1875
                                                00 BA49  DF 00094         PUSHAL  @0(R10)[I]                                   ; 1880
          58             9E            10            10  EF 00098         EXTZV   #16, #16, @(SP)+, CPT_INDEX                  ;
                         50            58            0A  C5 0009D         MULL3   #10, CPT_INDEX, R0                           ; 1881
                                          00000000G0040  9F 000A1         PUSHAB  NML$AB_CPTABLE[R0]                           ;
                                       57            9E  3C 000A8         MOVZWL  @(SP)+, PST_INDEX                            ;
                         50            57            04  78 000AB         ASHL    #4, PST_INDEX, R0                            ; 1882
                                       03 00000000G0040  91 000AF         CMPB    NML$AB_PRMSEM+2[R0], #3                      ;
                                                     04  12 000B7         BNEQ    5$                                           ;
                                       83       10   AE  90 000B9         MOVB    FLDSIZE, (PTR)+                              ; 1883
                         63       0C   6E       10   AE  28 000BD 5$:     MOVC3   FLDSIZE, @FLDADR, (PTR)                      ; 1887
                         AB            59            5B  F2 000C3 6$:     AOBLSS  R11, I, 4$                                   ; 1856
```

```
                                       50 00000000G  00  9E 000C7         MOVAB   NML$AB_RCVBUFFER, R0                        ; 1895
              00000000G  00            53            50  C3 000CE         SUBL3   R0, PTR, NML$GL_RCVDATLEN                   ;
                            00000000G  00            00  FB 000D6         CALLS   #0, NML$CALL_NI_CONFIG                      ; 1896
                                  FF   8F 00000000G  00  91 000DD         CMPB    NML$GB_ENTITY_FORMAT, #255                  ; 1900
                                                     06  12 000E5         BNEQ    7$                                          ;
                                                08   AE  D6 000E7         INCL    KEY                                         ; 1902
                                                   FF51  31 000EA         BRW     2$                                          ; 1844
                                                         04 000ED 7$:     RET                                                 ; 1905

; Routine Size:  238 bytes,    Routine Base:  $CODE$ + 0CA2


; 1923           1906  1
; 1924           1907  1 END                                   ! End of module
; 1925           1908  1
; 1926           1909  0 ELUDOM





;                                      PSECT SUMMARY
;
;       Name                        Bytes                         Attributes
;
;  $OWN$                                 1652  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                                 100  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                                3472  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        80        23           27        00:00.1
;  _$255$DUA28:[SHRLIB]NMALIBRY.L32;1          887        17         1           47        00:00.2
;  _$255$DUA28:[SHRLIB]NET.L32;1              1279         9         0           63        00:00.3
;  _$255$DUA28:[SYSLIB]STARLET.L32;1          9776         2         0          581        00:03.3





;                                       COMMAND QUALIFIERS

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

; Size:          3472 code + 1752 data bytes
; Run Time:         00:55.0
; Elapsed Time:     02:08.4
; Lines/CPU Min:     2082
; Lexemes/CPU-Min: 12416
; Memory Used:  212 pages
; Compilation Complete
```

0286 AH-BT13A-SE
VAX/VMS V4.0

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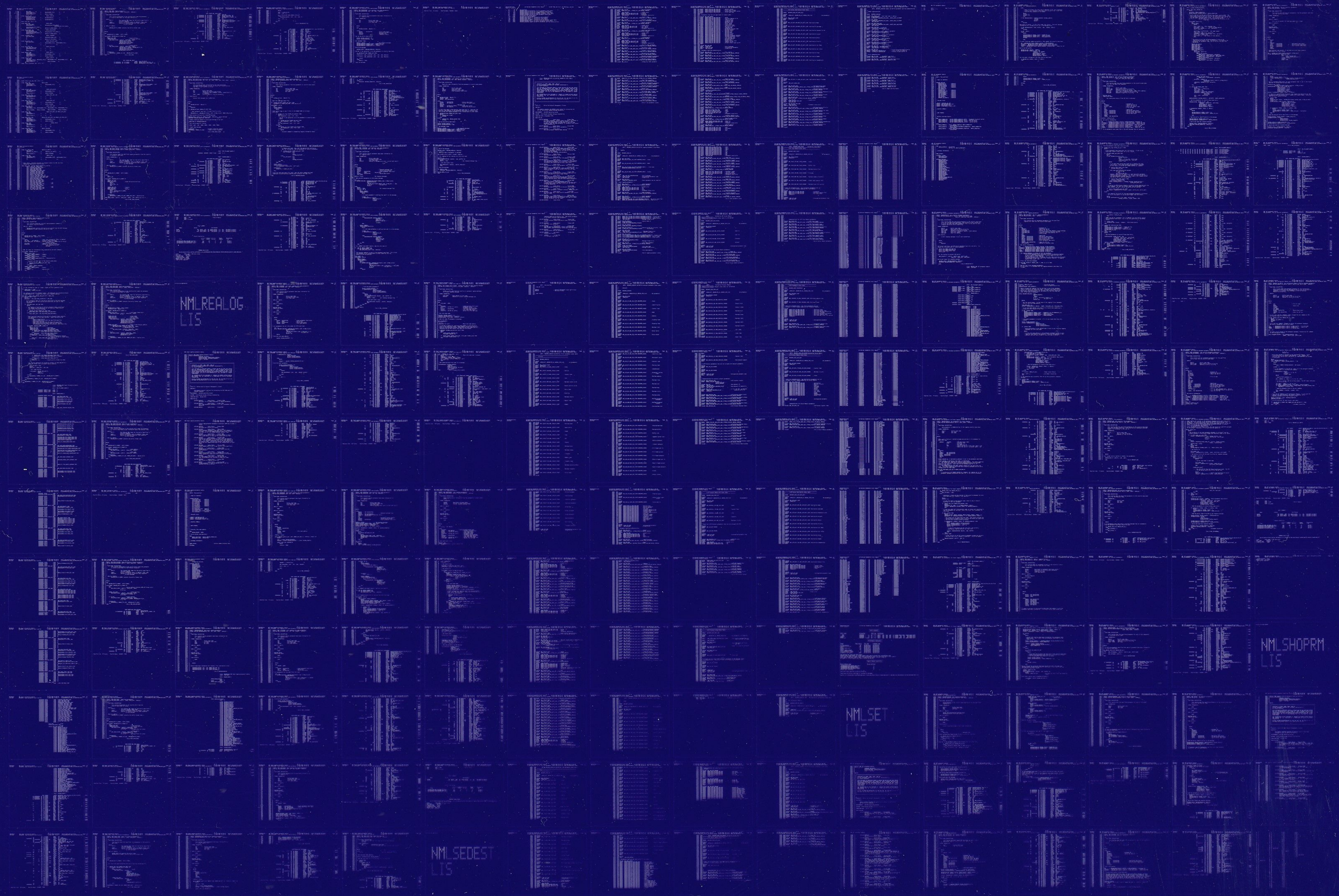

NMLREALOG
LIS

NMLSHOPRM
LIS

NMLSET
LIS

NMLSEDEST
LIS