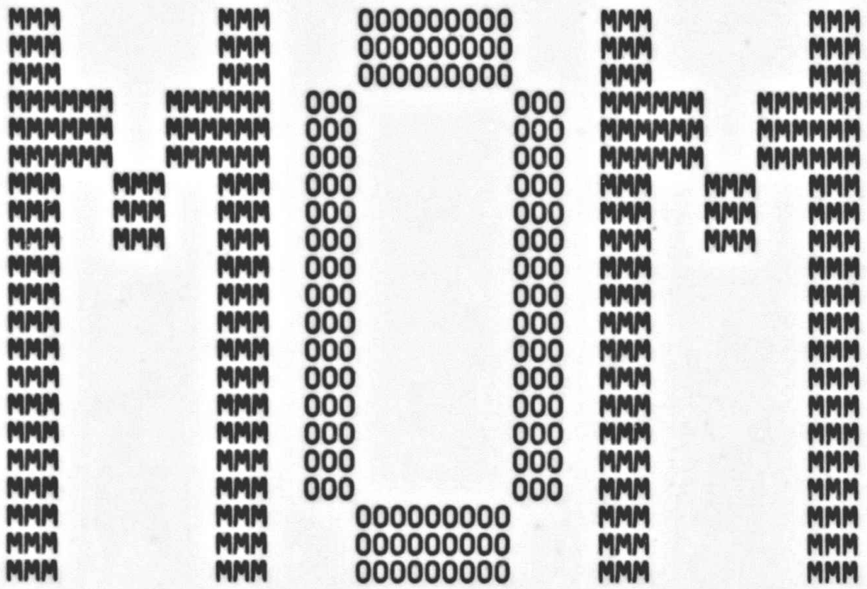
MMM MMM 000000000 MMM MMM
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MMMMMM MMMMMM 000 000 MMMMMM MMMMMM
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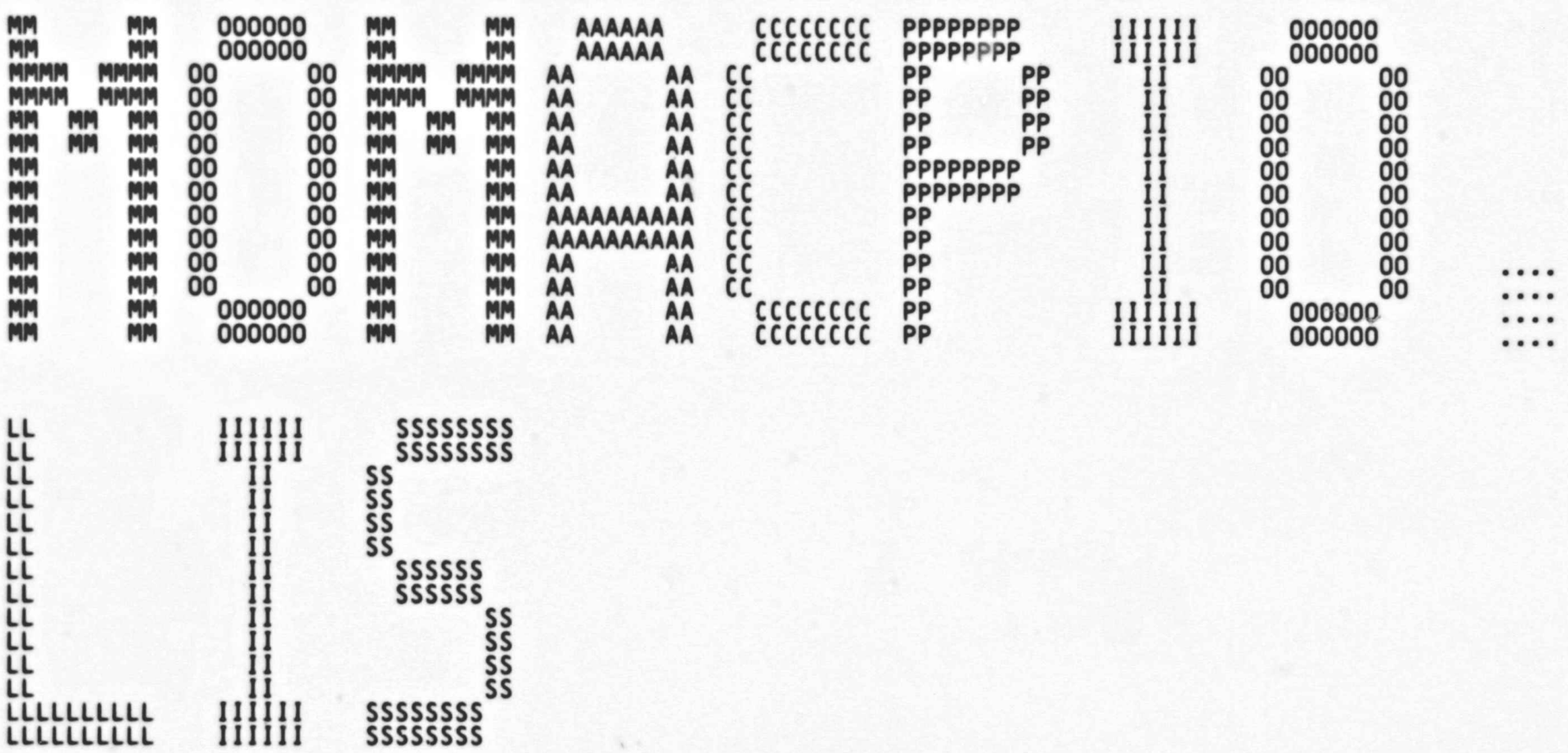
MOMACPIO

```
;  1          0001  0 %TITLE 'MOM Network I/O module'
;  2          0002  0 MODULE MOMACPIO (
;  3          0003  0                 LANGUAGE (BLISS32),
;  4          0004  0                 ADDRESSING_MODE (NONEXTERNAL=GENERAL),
;  5          0005  0                 ADDRESSING_MODE (EXTERNAL=GENERAL),
;  6          0006  0                 IDENT = 'V04-000'
;  7          0007  0                 ) =
;  8          0008  1 BEGIN
;  9          0009  1 !
; 10          0010  1 !*****************************************************************************
; 11          0011  1 !*                                                                           *
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; 13          0013  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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; 28          0028  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
; 29          0029  1 !*                                                                           *
; 30          0030  1 !*                                                                           *
; 31          0031  1 !*****************************************************************************
; 32          0032  1
; 33          0033  1 !++
; 34          0034  1 ! FACILITY:  DECnet-VAX Network Management Maintenance Operations Module (MOM)
; 35          0035  1 !
; 36          0036  1 ! ABSTRACT:
; 37          0037  1 !       This module contains routines to handle all network I/O
; 38          0038  1 !       with NETACP (NETDRIVER).
; 39          0039  1 !
; 40          0040  1 ! ENVIRONMENT:  VAX/VMS Operating System
; 41          0041  1 !
; 42          0042  1 ! AUTHOR:  Kathy Perko
; 43          0043  1 !
; 44          0044  1 ! CREATION DATE:  11-Jan-1983
; 45          0045  1 !
; 46          0046  1 ! MODIFIED BY:
; 47          0047  1 !       V03-001 MKP0001         Kathy Perko             2-June-1983
; 48          0048  1 !               Fix code that maps parameter IDs from NETUSR values
; 49          0049  1 !               to NICE values.
; 50          0050  1 !
; 51          0051  1 !--
; 52          0052  1
```

```
;    54          0053  1 %SBTTL 'Declarations'
;    55          0054  1
;    56          0055  1 !
;    57          0056  1 ! TABLE OF CONTENTS:
;    58          0057  1 !
;    59          0058  1
;    60          0059  1 FORWARD ROUTINE
;    61          0060  1     mom$build_p2: NOVALUE,
;    62          0061  1     mom$netacp_qio,
;    63          0062  1     mom$mapqioerror,
;    64          0063  1     mom_mapentity,
;    65          0064  1     mom_mapparamid;
;    66          0065  1
;    67          0066  1 !
;    68          0067  1 ! INCLUDE FILES:
;    69          0068  1 !
;    70          0069  1
;    71          0070  1 LIBRARY 'LIB$:MOMLIB';                  ! Facility-wide definitions
;    72          0071  1 LIBRARY 'SHRLIB$:NMALIBRY';             ! NICE definitions
;    73          0072  1 LIBRARY 'SHRLIB$:NET';                  ! NETACP QIO interface
;    74          0073  1 LIBRARY 'SYS$LIBRARY:STARLET';          ! VMS common definitions
;    75          0074  1
;    76          0075  1 !
;    77          0076  1 ! OWN STORAGE:
;    78          0077  1 !
;    79          0078  1
;    80          0079  1 !
;    81          0080  1 ! EXTERNAL REFERENCES:
;    82          0081  1 !
;    83          0082  1
;    84          0083  1 $mom_externals;
;    85          0084  1
;    86          0085  1 EXTERNAL
;    87          0086  1     mom$gq_netnamdsc,
;    88          0087  1     mom$gw_acp_chan;
;    89          0088  1
;    90          0089  1 EXTERNAL LITERAL
;    91          0090  1     mom$_qiobfovf;
;    92          0091  1
;    93          0092  1 EXTERNAL ROUTINE
;    94          0093  1     mom$debug_qio,
;    95          0094  1     mom$bld_reply;
;    96          0095  1
```

```
;    98          0096  1 %SBTTL 'mom$build_p2      Build P2 buffer and descriptor'
;    99          0097  1 GLOBAL ROUTINE mom$build_p2 (len1, adr1, len2, adr2, p2dsc, resdsc) : NOVALUE =
;   100          0098  1
;   101          0099  1 !++
;   102          0100  1 ! FUNCTIONAL DESCRIPTION:
;   103          0101  1 !
;   104          0102  1 !       This routine builds the P2 buffer and descriptor for operations to
;   105          0103  1 !       NETACP.  The buffer contains one or two search key values.  These
;   106          0104  1 !       values are compared to fields in NETACPs database entries (the database
;   107          0105  1 !       and the fields (search keys) are specified in the NFB buffer).  When
;   108          0106  1 !       an entry is found in which the specified field(s) match the search
;   109          0107  1 !       key value(s), NETACP performs the operation requested by the rest of
;   110          0108  1 !       the NFB (set, snow, etc.)
;   111          0109  1 !
;   112          0110  1 ! FORMAL PARAMETERS:
;   113          0111  1 !
;   114          0112  1 !       LEN1            First search key length.  If LEN1 is:
;   115          0113  1 !                           - zero then ADR1 contains a longword search key.
;   116          0114  1 !                           - >0 it contains the length of a string which
;   117          0115  1 !                             ADR1 points to.
;   118          0116  1 !                           - -1 then search key ID is a wildcard, and nothing
;   119          0117  1 !                             needs to be put into the P2 buffer for it.
;   120          0118  1 !                           - -2 then ADR1 contains a word search key.
;   121          0119  1 !       ADR1            First search key address.  If LEN1 is zero then this
;   122          0120  1 !                       is the longword value of the search key.  If LEN1 is -1 then
;   123          0121  1 !                       the search key is omitted.
;   124          0122  1 !       LEN2            Second search  key length.  Same rules apply as for
;   125          0123  1 !                       LEN1.
;   126          0124  1 !       ADR2            Second search key address. Same rules apply as for
;   127          0125  1 !                       ADR1.
;   128          0126  1 !       P2DSC           Address of P2 descriptor.  This routine assumes that
;   129          0127  1 !                       the buffer is large enough to handle the result.
;   130          0128  1 !                       The maximum P2 buffer required by NML is 36 bytes.
;   131          0129  1 !       RESDSC          Address of descriptor to hold resulting P2.
;   132          0130  1 !
;   133          0131  1 ! IMPLICIT OUTPUTS:
;   134          0132  1 !       The buffer described by P2DSC contains the search key and
;   135          0133  1 !       start key information.
;   136          0134  1 !
;   137          0135  1 !--
;   138          0136  1
;   139          0137  2 BEGIN
;   140          0138  2
;   141          0139  2 MAP
;   142          0140  2     p2dsc  : REF VECTOR,
;   143          0141  2     resdsc : REF VECTOR;
;   144          0142  2
;   145          0143  2 OWN
;   146          0144  2     collate_start_value: VECTOR [nfb$c_ctx_size, BYTE]
;   147          0145  2                          INITIAL ( REP nfb$c_ctx_size OF BYTE (0));
;   148          0146  2
;   149          0147  2 LOCAL
;   150          0148  2     msgsize,
;   151          0149  2     count,                                  ! P2 buffer length
;   152          0150  2     ptr;                                    ! P2 buffer pointer
;   153          0151  2
;   154          0152  2 !
```

```
;  155     0153  2 ! Calculate the length of the resulting P2 buffer, and signal if
;  156     0154  2 ! the buffer supplied isn't big enough.
;  157     0155  2 !
;  158     0156  2 count = 4;                              ! Account for count at beginning of buffer.
;  159     0157  2 SELECTONE .len1 OF
;  160     0158  2     SET
;  161     0159  2     [-2]: count = .count + 2;                       ! It's a word
;  162     0160  2     [0]: count = .count + 4;                        ! It's a longword
;  163     0161  2     [1 to 255]: count = .count + .len1 + 2          ! It's a string.
;  164     0162  2     TES;
;  165     0163  2
;  166     0164  2 SELECTONE .len2 OF
;  167     0165  2     SET
;  168     0166  2     [-2]: count = .count + 2;                       ! It's a word
;  169     0167  2     [0]: count = .count + 4;                        ! It's a longword
;  170     0168  2     [1 to 255]: count = .count + .len2 + 2          ! It's a string.
;  171     0169  2     TES;
;  172     0170  2
;  173     0171  2 count = .count + nfb$c_ctx_size;
;  174     0172  2 IF .count GTR .p2dsc [0] THEN
;  175     0173  2     !
;  176     0174  2     ! The P2 buffer will overflow.  Signal a MOM error.
;  177     0175  2     !
;  178     0176  3     BEGIN
;  179     0177  3     mom$ab_msgblock [msb$l_flags] = msb$m_msg_fld;      ! Set message text flag.
;  180     0178  3     mom$ab_msgblock [msb$b_code] = nma$c_sts_mpr;
;  181     0179  3     mom$ab_msgblock [msb$l_text] = mom$_qiobfovf;
;  182     0180  3     mom$bld_reply (mom$ab_msgblock, msgsize);       ! Build message
;  183     0181  3     $signal_msg (mom$ab_nice_xmit_buf, .msgsize);   ! Signal it.
;  184     0182  2     END;
;  185     0183  2
;  186     0184  2 ptr = .p2dsc [1] + 4;   ! Skip over return count
;  187     0185  2
;  188     0186  2 !
;  189     0187  2 ! Add first search key value to the P2 buffer.
;  190     0188  2 !
;  191     0189  2 SELECTONE .len1 OF
;  192     0190  2     SET
;  193     0191  2     [-2]: ptr = CH$MOVE (2, adr1, .ptr);            ! It's a word
;  194     0192  2     [0]: ptr = CH$MOVE (4, adr1, .ptr);             ! It's a longword
;  195     0193  2     [1 TO 255]:                                     ! It's a string.
;  196     0194  3         BEGIN
;  197     0195  3         CH$WCHAR_A (.len1<0,8>, ptr);
;  198     0196  3         CH$WCHAR_A (.len1<8,8>, ptr);
;  199     0197  3         ptr = CH$MOVE (.len1, .adr1, .ptr);
;  200     0198  3         END
;  201     0199  2     TES;
;  202     0200  2
;  203     0201  2 !
;  204     0202  2 ! Add search key two to buffer.
;  205     0203  2 !
;  206     0204  2 SELECTONE .len2 OF
;  207     0205  2     SET
;  208     0206  2     [-2]: ptr = CH$MOVE (2, adr2, .ptr);            ! It's a word
;  209     0207  2     [0]: ptr = CH$MOVE (4, adr2, .ptr);             ! It's a longword
;  210     0208  2     [1 TO 255]:                                     ! It's a string.
;  211     0209  3         BEGIN
```

```
;  212     0210  3          CH$WCHAR_A (.len2<0,8>, ptr);
;  213     0211  3          CH$WCHAR_A (.len2<8,8>, ptr);
;  214     0212  3          ptr = CH$MOVE (.len2, .adr2, .ptr);
;  215     0213  3          END
;  216     0214  2      TES;
;  217     0215  2
;  218     0216  2  !
;  219     0217  2  ! Set up a context area of a string of nulls.  NETACP will
;  220     0218  2  ! replace the null string with a start value of the last database
;  221     0219  2  ! entry matched by the search key.
;  222     0220  2  !
;  223     0221  2  ptr = CH$MOVE ( nfb$c_ctx_size, collate_start_value, .ptr);
;  224     0222  2  !
;  225     0223  2  ! Set up resulting descriptor for return.
;  226     0224  2  !
;  227     0225  2  resdsc [0] = .ptr - .p2dsc [1];
;  228     0226  2  resdsc [1] = .p2dsc [1];
;  229     0227  2
;  230     0228  1  END;                                   ! End of mom$build_p2


                                                        .TITLE  MOMACPIO MOM Network I/O module
                                                        .IDENT  \V04-000\

                                                        .PSECT  $OWN$,NOEXE,2

                                                00# 00000 COLLATE_START_VALUE:
                                                        .BYTE   0[64]                                   ;

                                                        .EXTRN  MOM$GL_LOGMASK, MOM$GL_SVD_INDEX
                                                        .EXTRN  MOM$AB_SERVICE_DATA
                                                        .EXTRN  MOM$GB_FUNCTION
                                                        .EXTRN  MOM$GB_OPTION_BYTE
                                                        .EXTRN  MOM$GB_ENTITY_CODE
                                                        .EXTRN  MOM$AB_ENTITY_BUF
                                                        .EXTRN  MOM$GQ_ENTITY_BUF_DSC
                                                        .EXTRN  MOM$GL_SERVICE_FLAGS
                                                        .EXTRN  MOM$AB_NPARSE_BLK
                                                        .EXTRN  MOM$AB_NICE_RCV_BUF
                                                        .EXTRN  MOM$AB_NICE_XMIT_BUF
                                                        .EXTRN  MOM$GQ_NICE_RCV_BUF_DSC
                                                        .EXTRN  MOM$GL_NICE_RCV_MSG_LEN
                                                        .EXTRN  MOM$GQ_NICE_XMIT_BUF_DSC
                                                        .EXTRN  MOM$AB_MSGBLOCK
                                                        .EXTRN  MOM$AB_ACPQIO_BUFFER
                                                        .EXTRN  MOM$GQ_ACPQIO_BUF_DSC
                                                        .EXTRN  MOM$AB_CIB, MOM$AB_LOOP_CIB
                                                        .EXTRN  MOM$AB_TRIGGER_CIB
                                                        .EXTRN  MOM$AB_MOP_XMIT_BUF
                                                        .EXTRN  MOM$GQ_MOP_XMIT_BUF_DSC
                                                        .EXTRN  MOM$AB_MOP_RCV_BUF
                                                        .EXTRN  MOM$GQ_MOP_RCV_BUF_DSC
                                                        .EXTRN  MOM$AB_MOP_MSG, MOM$GQ_MOP_MSG_DSC
                                                        .EXTRN  MOM$GW_EVT_CODE
                                                        .EXTRN  MOM$GB_EVT_POPR
                                                        .EXTRN  MOM$GB_EVT_PRSN
                                                        .EXTRN  MOM$GB_EVT_PSER
```

```
                                                        .EXTRN  SVD$GK_PCNO_ADD
                                                        .EXTRN  SVD$GK_PCNO_SDV
                                                        .EXTRN  SVD$GK_PCNO_CPU
                                                        .EXTRN  SVD$GK_PCNO_STY
                                                        .EXTRN  SVD$GK_PCNO_DAD
                                                        .EXTRN  SVD$GK_PCNO_DCT
                                                        .EXTRN  SVD$GK_PCNO_IHO
                                                        .EXTRN  SVD$GK_PCNO_NNA
                                                        .EXTRN  SVD$GK_PCNO_SLI
                                                        .EXTRN  SVD$GK_PCNO_SPA
                                                        .EXTRN  SVD$GK_PCNO_HWA
                                                        .EXTRN  SVD$GK_PCNO_SNV
                                                        .EXTRN  SVD$GK_PCNO_LOA
                                                        .EXTRN  SVD$GK_PCNO_SLO
                                                        .EXTRN  SVD$GK_PCNO_TLO
                                                        .EXTRN  SVD$GK_PCNO_DFL
                                                        .EXTRN  SVD$GK_PCNO_SID
                                                        .EXTRN  SVD$GK_PCNO_DUM
                                                        .EXTRN  SVD$GK_PCNO_SDU
                                                        .EXTRN  SVD$GK_PCNO_$HNA
                                                        .EXTRN  SVD$GK_PCNO_$HHW
                                                        .EXTRN  SVD$GK_PCNO_$FTY
                                                        .EXTRN  SVD$GK_PCNO_PHA
                                                        .EXTRN  SVD$GK_PCNO_$DA
                                                        .EXTRN  SVD$GK_PCNO_LPC
                                                        .EXTRN  SVD$GK_PCNO_LPL
                                                        .EXTRN  SVD$GK_PCNO_LPD
                                                        .EXTRN  SVD$GK_PCNO_LPH
                                                        .EXTRN  SVD$GK_PCNO_LPA
                                                        .EXTRN  SVD$GK_PCNO_LPN
                                                        .EXTRN  SVD$GK_PCNO_$LNA
                                                        .EXTRN  SVD$GK_PCNO_$LNH
                                                        .EXTRN  SVD$GK_PCNO_LAN
                                                        .EXTRN  SVD$GK_PCNO_$LNN
                                                        .EXTRN  SVD$GK_PCNO_$LAH
                                                        .EXTRN  SVD$GK_PCLI_STI
                                                        .EXTRN  SVD$C_ENTRY_COUNT
                                                        .EXTRN  MOM$GQ_NETNAMDSC
                                                        .EXTRN  MOM$GW_ACP_CHAN
                                                        .EXTRN  MOM$_QIOBFOVF, MOM$DEBUG_QIO
                                                        .EXTRN  MOM$BLD_REPLY

                                                        .PSECT  $CODE$,NOWRT,2

                                  01FC 00000            .ENTRY  MOM$BUILD_P2, Save R2,R3,R4,R5,R6,R7,R8     ; 0097
                58 00000000G   00   9E 00002            MOVAB   MOM$AB_MSGBLOCK, R8                         ;
                5E             04   C2 00009            SUBL2   #4, SP                                      ;
                50             04   D0 0000C            MOVL    #4, COUNT                                   ; 0156
                52       04    AC   D0 0000F            MOVL    LEN1, R2                                    ; 0157
FFFFFFFE        8F             52   D1 00013            CMPL    R2, #-2                                     ; 0159
                               05   12 0001A            BNEQ    1$                                          ;
                50             02   C0 0001C            ADDL2   #2, COUNT                                   ;
                               19   11 0001F            BRB     3$                                          ;
                               52   D5 00021  1$:       TSTL    R2                                          ; 0160
                               05   12 00023            BNEQ    2$                                          ;
                50             04   C0 00025            ADDL2   #4, COUNT                                   ;
                               10   11 00028            BRB     3$                                          ;
```

```
                               0E   15 0002A 2$:   BLEQ    3$                                         ; 0161
      000000FF   8F            52   D1 0002C       CMPL    R2, #255                                   ;
                               05   14 00033       BGTR    3$                                         ;
            50        02 A240       9E 00035       MOVAB   2(R2)[COUNT], COUNT                        ;
            57        0C   AC       D0 0003A 3$:   MOVL    LEN2, R7                                   ; 0164
      FFFFFFFE   8F            57   D1 0003E       CMPL    R7, #-2                                    ; 0166
                               05   12 00045       BNEQ    4$                                         ;
            50                 02   C0 00047       ADDL2   #2, COUNT                                  ;
                               19   11 0004A       BRB     6$                                         ;
                               57   D5 0004C 4$:   TSTL    R7                                         ; 0167
                               05   12 0004E       BNEQ    5$                                         ;
            50                 04   C0 00050       ADDL2   #4, COUNT                                  ;
                               10   11 00053       BRB     6$                                         ;
                               0E   15 00055 5$:   BLEQ    6$                                         ; 0168
      000000FF   8F            57   D1 00057       CMPL    R7, #255                                   ;
                               05   14 0005E       BGTR    6$                                         ;
            50        02 A740       9E 00060       MOVAB   2(R7)[COUNT], COUNT                        ;
            50        40   A0       9E 00065 6$:   MOVAB   64(R0), COUNT                              ; 0171
            56        14   AC       D0 00069       MOVL    P2DSC, R6                                  ; 0172
            66                 50   D1 0006D       CMPL    COUNT, (R6)                                ;
                               2F   15 00070       BLEQ    7$                                         ;
            68                 04   D0 00072       MOVL    #4, MOM$AB_MSGBLOCK                        ; 0177
         04   A8               05   8E 00075       MNEGB   #5, MOM$AB_MSGBLOCK+4                      ; 0178
         0C   A8  00000000G    8F   D0 00079       MOVL    #MOM$_QIOBFOVF, MOM$AB_MSGBLOCK+12         ; 0179
                      4100     8F   BB 00081       PUSHR   #^M<R8,SP>                                 ; 0180
      00000000G  00            02   FB 00085       CALLS   #2, MOM$BLD_REPLY                          ;
                               6E   DD 0008C       PUSHL   MSGSIZE                                    ; 0181
                 00000000G 00       9F 0008E       PUSHAB  MOM$AB_NICE_XMIT_BUF                       ;
                 02070000  8F       DD 00094       PUSHL   #34013184                                  ;
      00000000G  00            03   FB 0009A       CALLS   #3, LIB$SIGNAL                             ;
  53     04   A6               04   C1 000A1 7$:   ADDL3   #4, 4(R6), PTR                             ; 0184
      FFFFFFFE   8F            52   D1 000A6       CMPL    R2, #-2                                    ; 0191
                               06   12 000AD       BNEQ    8$                                         ;
            83        08   AC       B0 000AF       MOVW    ADR1, (PTR)+                               ;
                               1E   11 000B3       BRB     10$                                        ;
                               52   D5 000B5 8$:   TSTL    R2                                         ; 0192
                               06   12 000B7       BNEQ    9$                                         ;
            83        08   AC       D0 000B9       MOVL    ADR1, (PTR)+                               ;
                               14   11 000BD       BRB     10$                                        ;
                               12   15 000BF 9$:   BLEQ    10$                                        ; 0193
      000000FF   8F            52   D1 000C1       CMPL    R2, #255                                   ;
                               09   14 000C8       BGTR    10$                                        ;
            83        04   AC       B0 000CA       MOVW    LEN1, (PTR)+                               ; 0195
  63     08   BC               52   28 000CE       MOVC3   R2, @ADR1, (PTR)                           ; 0197
      FFFFFFFE   8F            57   D1 000D3 10$:  CMPL    R7, #-2                                    ; 0206
                               06   12 000DA       BNEQ    11$                                        ;
            83        10   AC       B0 000DC       MOVW    ADR2, (PTR)+                               ;
                               1E   11 000E0       BRB     13$                                        ;
                               57   D5 000E2 11$:  TSTL    R7                                         ; 0207
                               06   12 000E4       BNEQ    12$                                        ;
            83        10   AC       D0 000E6       MOVL    ADR2, (PTR)+                               ;
                               14   11 000EA       BRB     13$                                        ;
                               12   15 000EC 12$:  BLEQ    13$                                        ; 0208
      000000FF   8F            57   D1 000EE       CMPL    R7, #255                                   ;
                               09   14 000F5       BGTR    13$                                        ;
            83        0C   AC       B0 000F7       MOVW    LEN2, (PTR)+                               ; 0210
  63     10   BC               57   28 000FB       MOVC3   R7, @ADR2, (PTR)                           ; 0212
```

```
                63 00000000'  00     0040   8F  28 00100 13$:    MOVC3   #64, COLLATE_START_VALUE, (PTR)          ; 0221
                              50       18   AC  D0 0010A         MOVL    RESDSC, R0                             ; 0225
                60            53       04   A6  C3 0010E         SUBL3   4(R6), PTR, (R0)                       ;
                        04    A0       04   A6  D0 00113         MOVL    4(R6), 4(R0)                           ; 0226
                                                 04 00118         RET                                            ; 0228

; Routine Size:  281 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  232          0229  1 %SBTTL 'mom$netacp_qio  General network QIO routine'
;  233          0230  1 GLOBAL ROUTINE mom$netacp_qio (nfbdsc, p2, p3, bufdsc) =
;  234          0231  1
;  235          0232  1 !++
;  236          0233  1 ! FUNCTIONAL DESCRIPTION:
;  237          0234  1 !
;  238          0235  1 !       This routine issues QIO function requests to NETACP to perform
;  239          0236  1 !       volatile data base operations.
;  240          0237  1 !
;  241          0238  1 ! FORMAL PARAMETERS:
;  242          0239  1 !
;  243          0240  1 !       NFBDSC          Descriptor of NFB data.
;  244          0241  1 !       P2              Descriptor of P2 data.
;  245          0242  1 !       P3              Address of word to contain resulting length.
;  246          0243  1 !       BUFDSC          Descriptor of data buffer
;  247          0244  1 !
;  248          0245  1 ! IMPLICIT INPUTS:
;  249          0246  1 !
;  250          0247  1 !       MOM$GW_ACP_CHAN Channel assigned to the command process link.
;  251          0248  1 !
;  252          0249  1 ! IMPLICIT OUTPUTS:
;  253          0250  1 !
;  254          0251  1 !       NONE
;  255          0252  1 !
;  256          0253  1 ! ROUTINE VALUE:
;  257          0254  1 ! COMPLETION CODES:
;  258          0255  1 !
;  259          0256  1 !       This routine returns an MOM status code that has been mapped from
;  260          0257  1 !       the QIO status code.
;  261          0258  1 !
;  262          0259  1 ! SIDE EFFECTS:
;  263          0260  1 !
;  264          0261  1 !       NONE
;  265          0262  1 !
;  266          0263  1 !--
;  267          0264  1
;  268          0265  2 BEGIN
;  269          0266  2
;  270          0267  2 MAP
;  271          0268  2     nfbdsc : REF VECTOR,
;  272          0269  2     bufdsc : REF VECTOR;
;  273          0270  2
;  274          0271  2 LOCAL
;  275          0272  2     iosb     : $iosb,                   ! I/O status block
;  276          0273  2     database,                           ! Database ID
;  277          0274  2     status;                             ! Temporary return status
;  278          0275  2 !
;  279          0276  2 ! If it hasn't already been done, establish channel to NETACP for QIO control
;  280          0277  2 ! functions. The channel is to NET:, the pseudo device to which volatile
;  281          0278  2 ! database commands are issued.  Doing the assing here allows NCP commands to
;  282          0279  2 ! the permanent data base to be processed even if NETACP is not mounted.
;  283          0280  2 !
;  284          0281  2 status = ss$_normal;
;  285          0282  2 IF .mom$gw_acp_chan EQL 0 THEN
;  286        P 0283  2     status = $ASSIGN(DEVNAM = mom$gq_netnamdsc,
;  287          0284  2                      CHAN = mom$gw_acp_chan);
;  288          0285  2 IF .status THEN
```

```
;  289          0286  3     BEGIN
;  290          0287  3     !
;  291          0288  3     ! Issue the QIO.
;  292          0289  3     !
;  293        P 0290  3     status = $QIOW (CHAN = .mom$gw_acp_chan,     ! Channel
;  294        P 0291  3                     FUNC = io$_acpcontrol,       ! Function
;  295        P 0292  3                     IOSB = iosb,                 ! I/O status block
;  296        P 0293  3                     P1   = .nfbdsc,              ! P1 descriptor (NFB)
;  297        P 0294  3                     P2   = .p2,                  ! P2 descriptor (component id)
;  298        P 0295  3                     P3   = .p3,                  ! Address for resulting length
;  299          0296  3                     P4   = .bufdsc);             ! P4 (data buffer) descriptor
;  300          0297  3     !
;  301          0298  3     ! Log the QIO function.
;  302          0299  3     !
;  303          0300  3     mom$debug_qio (dbg$c_acpqio,                 ! Log type code
;  304          0301  3                    .status,                      ! QIO status value
;  305          0302  3                    iosb,                         ! Address of I/O status block
;  306          0303  3                    .nfbdsc,                      ! NFB descriptor
;  307          0304  3                    .p2,                          ! P2 descriptor
;  308          0305  3                    .p3,                          ! Address of P3 word
;  309          0306  3                    .bufdsc,                      ! Data buffer descriptor
;  310          0307  3                    $ASCID('SET, SHOW, or CLEAR NETACPs database'));
;  311          0308  3     !
;  312          0309  3     ! Map the operation status into an MOM code.
;  313          0310  3     !
;  314          0311  3     database = .bblock [.nfbdsc [1], nfb$b_database];
;  315          0312  2     END;
;  316          0313  2 status = mom$mapqioerror (.database, .status, iosb);
;  317          0314  2 !
;  318          0315  2 ! Return the mapped status code.
;  319          0316  2 !
;  320          0317  2 RETURN .status
;  321          0318  2
;  322          0319  1 END;                                    ! End of mom$netqio


                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

43 20 72 6F 20 2C 57 4F 48 53 20 2C 54 45 53 00000 P.AAB:    .ASCII  \SET, SHOW, or CLEAR NETACPs database\      ;
61 64 20 73 50 43 41 54 45 4E 20 52 41 45 4C 0000F                                                              ;
                           65 73 61 62 61 74 0001E                                                              ;
                                          00000024  00024 P.AAA:    .LONG   36                                  ;
                                          00000000' 00028           .ADDRESS P.AAB                              ;

                                                                .EXTRN  SYS$ASSIGN, SYS$QIOW

                                                                .PSECT  $CODE$,NOWRT,2

                                             001C 00000         .ENTRY  MOM$NETACP_QIO, Save R2,R3,R4           ; 0230
                    54 00000000G   00    9E 00002         MOVAB   MOM$GW_ACP_CHAN, R4                         ;
                    5E             08    C2 00009         SUBL2   #8, SP                                      ;
                    53             01    D0 0000C         MOVL    #1, STATUS                                  ; 0281
                                   64    D5 0000F         TSTL    MOM$GW_ACP_CHAN                             ; 0282
                                   14    12 00011         BNEQ    1$                                          ;
                                   7E    7C 00013         CLRQ    -(SP)                                       ; 0284
                                   54    DD 00015         PUSHL   R4                                          ;
```

```
                    00000000G   00  9F  00017          PUSHAB  MOM$GQ_NETNAMDSC                                ;
          00000000G   00            04  FB  0001D          CALLS   #4, SYS$ASSIGN                              ;
                      53            50  D0  00024          MOVL    R0, STATUS                                  ;
                      49            53  E9  00027 1$:      BLBC    STATUS, 2$                                  ; 0285
                                    7E  7C  0002A          CLRQ    -(SP)                                       ; 0296
                      7E      0C    AC  7D  0002C          MOVQ    P3, -(SP)                                   ;
                              08    AC  DD  00030          PUSHL   P2                                          ;
                      52      04    AC  D0  00033          MOVL    NFBDSC, R2                                  ;
                                    52  DD  00037          PUSHL   R2                                          ;
                                    7E  7C  00039          CLRQ    -(SP)                                       ;
                              20    AE  9F  0003B          PUSHAB  IOSB                                        ;
                                    38  DD  0003E          PUSHL   #56                                         ;
                                    64  DD  00040          PUSHL   MOM$GW_ACP_CHAN                             ;
                                    7E  D4  00042          CLRL    -(SP)                                       ;
          00000000G   00            0C  FB  00044          CALLS   #12, SYS$QIOW                               ;
                      53            50  D0  0004B          MOVL    R0, STATUS                                  ;
                    00000000'   00  9F  0004E          PUSHAB  P.AAA                                       ; 0307
                      7E      0C    AC  7D  00054          MOVQ    P3, -(SP)                                   ; 0305
                              08    AC  DD  00058          PUSHL   P2                                          ; 0304
                                    52  DD  0005B          PUSHL   R2                                          ; 0303
                              14    AE  9F  0005D          PUSHAB  IOSB                                        ; 0300
                                    53  DD  00060          PUSHL   STATUS                                      ; 0301
                                    04  DD  00062          PUSHL   #4                                          ; 0300
          00000000G   00            08  FB  00064          CALLS   #8, MOM$DEBUG_QIO                           ;
                      50      04    A2  D0  0006B          MOVL    4(R2), R0                                   ; 0311
                      50      02    A0  9A  0006F          MOVZBL  2(R0), DATABASE                             ;
                            4009    8F  BB  00073 2$:      PUSHR   #^M<R0,R3,SP>                               ; 0313
          00000000V   00            03  FB  00077          CALLS   #3, MOM$MAPQIOERROR                         ;
                      53            50  D0  0007E          MOVL    R0, STATUS                                  ;
                                        04  00081          RET                                                 ; 0319

; Routine Size:  130 bytes,    Routine Base:  $CODE$ + 0119
```

```
;   324     0320  1 %SBTTL 'mom$mapqioerror      Map QIO error to MOM error'
;   325     0321  1 GLOBAL ROUTINE mom$mapqioerror (database, qiostatus, iosb) =
;   326     0322  1
;   327     0323  1 !++
;   328     0324  1 ! FUNCTIONAL DESCRIPTION:
;   329     0325  1 !
;   330     0326  1 !       This routine translates QIO errors into network management
;   331     0327  1 !       errors and makes the appropriate entries in the message
;   332     0328  1 !       block.
;   333     0329  1 !
;   334     0330  1 ! FORMAL PARAMETERS:
;   335     0331  1 !
;   336     0332  1 !       DATABASE        Database ID
;   337     0333  1 !       QIOSTATUS       QIO status return.
;   338     0334  1 !       IOSB            Address of I/O status block.
;   339     0335  1 !
;   340     0336  1 ! IMPLICIT INPUTS:
;   341     0337  1 !
;   342     0338  1 !       NONE
;   343     0339  1 !
;   344     0340  1 ! IMPLICIT OUTPUTS:
;   345     0341  1 !
;   346     0342  1 !       MOM$AB_MSGBLOCK contains the appropriate error code and detail
;   347     0343  1 !       if applicable.
;   348     0344  1 !
;   349     0345  1 ! ROUTINE VALUE:
;   350     0346  1 ! COMPLETION CODES:
;   351     0347  1 !
;   352     0348  1 !       The return status is the MOM error that corresponds to the QIO error.
;   353     0349  1 !
;   354     0350  1 ! SIDE EFFECTS:
;   355     0351  1 !
;   356     0352  1 !       NONE
;   357     0353  1 !
;   358     0354  1 !--
;   359     0355  1
;   360     0356  2 BEGIN
;   361     0357  2
;   362     0358  2 MAP
;   363     0359  2     iosb : REF $iosb;
;   364     0360  2
;   365     0361  2 LOCAL
;   366     0362  2     code   : BYTE,                          ! NICE status code
;   367     0363  2     detail : WORD,                          ! NICE detail code
;   368     0364  2     flags,                                  ! Message flags
;   369     0365  2     status,                                 ! Return status
;   370     0366  2     text;                                   ! Optional text code
;   371     0367  2 !
;   372     0368  2 ! Set up the default message information.
;   373     0369  2 !
;   374     0370  2 code = nma$c_sts_ope;                       ! Management program error
;   375     0371  2 detail = -1;                                ! No detail
;   376     0372  2 flags = msb$m_det_fld;                      ! Detail flag
;   377     0373  2 !
;   378     0374  2 ! Check the QIO status and the I/O status block.
;   379     0375  2 !
;   380     0376  2 IF NOT .qiostatus THEN
```

```
;  381          0377  3     BEGIN
;  382          0378  !
;  383          0379  ! The QIO was in error.  This indicates a program or a system error.
;  384          0380  !
;  385          0381        text = .qiostatus;                  ! Use system message as optional text
;  386          0382        flags = .flags OR                   ! Default flags
;  387          0383                msb$m_msg_fld;              !  and optional text
;  388          0384        status = failure;                   ! Return status
;  389          0385
;  390          0386        END
;  391          0387  ELSE
;  392          0388        BEGIN
;  393          0389        !
;  394          0390        ! The QIO status was successful so check the I/O status block.
;  395          0391        ! If it indicates success the just return.  Otherwise, attempt to map
;  396          0392        ! the error code to an MOM error code.
;  397          0393        !
;  398          0394        IF .iosb [ios$w_status] THEN
;  399          0395            RETURN success;
;  400          0396
;  401          0397        SELECTONE .iosb [ios$w_status] OF
;  402          0398            SET
;  403          0399            [ss$_insfarg]:                          ! Missing parameter
;  404          0400  4             BEGIN
;  405          0401  4             code = nma$c_sts_pms;
;  406          0402  4             detail = mom_mapparamid (.iosb [ios$l_info]);
;  407          0403  4             status = failure;
;  408          0404  4             END;
;  409          0405
;  410          0406            [ss$_badparam,                          ! Parameter value error
;  411          0407            ss$_devactive]:
;  412          0408  4             BEGIN
;  413          0409  4             code = nma$c_sts_pva;
;  414          0410  4             detail = mom_mapparamid (.iosb [ios$l_info]);
;  415          0411  4             status = failure;
;  416          0412  3             END;
;  417          0413  3
;  418          0414  3         [ss$_writlck]:                          ! Component in wrong state
;  419          0415  4             BEGIN
;  420          0416  4             code = nma$c_sts_sta;
;  421          0417  4             detail = mom_mapentity (.database);
;  422          0418  4             status = failure;
;  423          0419  3             END;
;  424          0420  3
;  425          0421  3         [ss$_insfmem]:                          ! No room for new entry
;  426          0422  4             BEGIN
;  427          0423  4             code = nma$c_sts_roo;
;  428          0424  4             status = failure;
;  429          0425  3             END;
;  430          0426  3
;  431          0427  3         [ss$_endoffile]:                        ! Unrecognized component
;  432          0428  4             BEGIN
;  433          0429  4             code = nma$c_sts_cmp;
;  434          0430  4             detail = mom_mapentity (.database);
;  435          0431  4             status = nma$c_sts_cmp;
;  436          0432  3             END;
;  437          0433  3
```

```
;   438         0434  3          [ss$_nopriv]:                               ! Privilege violation
;   439         0435  4              BEGIN
;   440         0436  4              code = nma$c_sts_pri;
;   441         0437  4              status = failure;
;   442         0438  3              END;
;   443         0439  3
;   444         0440  3          [ss$_nosuchdev]:                            ! No such device
;   445         0441  4              BEGIN
;   446         0442  4              code = nma$c_sts_cmp;
;   447         0443  4              detail = mom_mapentity (.database);
;   448         0444  4              text = .iosb [ios$w_status];
;   449         0445  4              flags = .flags OR msb$m_msg_fld;
;   450         0446  4              status = failure;
;   451         0447  3              END;
;   452         0448  3
;   453         0449  3          [ss$_devinact]:                             ! Device inactive
;   454         0450  4              BEGIN
;   455         0451  4              code = nma$c_sts_sta;
;   456         0452  4              detail = mom_mapparamid (.iosb [ios$l_info]);
;   457         0453  4              text = .iosb [ios$w_status];
;   458         0454  4              flags = .flags OR msb$m_msg_fld;
;   459         0455  4              status = failure;
;   460         0456  3              END;
;   461         0457  3
;   462         0458  3          [ss$_ivdevnam]:                             ! Invalid device name.
;   463         0459  4              BEGIN
;   464         0460  4              code = nma$c_sts_ide;
;   465         0461  4              detail = mom_mapentity (.database);
;   466         0462  4              text = .iosb [ios$w_status];
;   467         0463  4              flags = .flags OR msb$m_msg_fld;
;   468         0464  4              status = failure;
;   469         0465  3              END;
;   470         0466  3
;   471         0467  3          [ss$_nolicense]:                            ! Customer doesn't have a
;   472         0468  4              BEGIN
;   473         0469  4              code = nma$c_sts_ope;
;   474         0470  4              text = .iosb [ios$w_status];
;   475         0471  4              flags = .flags OR msb$m_msg_fld;
;   476         0472  4              status = failure;
;   477         0473  3              END;
;   478         0474  3
;   479         0475  3          [OTHERWISE]:                                ! Operation failure
;   480         0476  4              BEGIN
;   481         0477  4              code = nma$c_sts_ope;
;   482         0478  4              detail = .iosb [ios$l_info];
;   483         0479  4              text = .iosb [ios$w_status];
;   484         0480  4              flags = .flags OR
;   485         0481  4                      msb$m_msg_fld;
;   486         0482  4              status = failure;
;   487         0483  3              END;
;   488         0484  3
;   489         0485  3          TES;
;   490         0486  2      END;
;   491         0487  2  !
;   492         0488  2  ! Set up the message information.
;   493         0489  2  !
;   494         0490  2  mom$ab_msgblock [msb$l_flags]  = .flags;
```

```
;  495          0491  2 mom$ab_msgblock [msb$b_code]   = .code;
;  496          0492  2 mom$ab_msgblock [msb$w_detail] = .detail;
;  497          0493  2 mom$ab_msgblock [msb$l_text]   = .text;
;  498          0494  2 !
;  499          0495  2 ! Return the mapped status.
;  500          0496  2 !
;  501          0497  2 RETURN .status
;  502          0498  2
;  503          0499  1 END;                                    ! End of mom$mapqioerror


                                        07FC 00000          .ENTRY  MOM$MAPQIOERROR, Save R2,R3,R4,R5,R6,R7,R8,-; 0321
                                                                    R9,R10
                                5A 00000000V   00    9E 00002       MOVAB   MOM_MAPPARAMID, R10                     ;
                                59 00000000V   00    9E 00009       MOVAB   MOM_MAPENTITY, R9                       ;
                                58 00000000G   00    9E 00010       MOVAB   MOM$AB_MSGBLOCK, R8                     ;
                                54                   19  8E 00017       MNEGB   #25, CODE                           ; 0370
                                57                   01  AE 0001A       MNEGW   #1, DETAIL                          ; 0371
                                55                   02  D0 0001D       MOVL    #2, FLAGS                           ; 0372
                                07             08    AC  E8 00020       BLBS    QIOSTATUS, 1$                       ; 0376
                                56             08    AC  D0 00024       MOVL    QIOSTATUS, TEXT                     ; 0381
                                                 00BA  31  00028       BRW     19$                                 ; 0382
                                52             0C    AC  D0 0002B 1$:    MOVL    IOSB, R2                            ; 0394
                                04                   62  E9 0002F       BLBC    (R2), 2$                            ;
                                50                   01  D0 00032       MOVL    #1, R0                              ; 0395
                                                         04  00035       RET                                         ;
                          0114  8F                   62  B1 00036 2$:    CMPW    (R2), #276                          ; 0399
                                                     05  12 0003B       BNEQ    3$                                  ;
                                54                   1D  8E 0003D       MNEGB   #29, CODE                           ; 0401
                                                     0F  11 00040       BRB     5$                                  ; 0402
                                14                   62  B1 00042 3$:    CMPW    (R2), #20                           ; 0406
                                                     07  13 00045       BEQL    4$                                  ;
                          02C4  8F                   62  B1 00047       CMPW    (R2), #708                          ;
                                                     0B  12 0004C       BNEQ    6$                                  ;
                                54                   10  8E 0004E 4$:    MNEGB   #16, CODE                           ; 0409
                                             04    A2  DD 00051 5$:    PUSHL   4(R2)                               ; 0410
                                6A                   01  FB 00054       CALLS   #1, MOM_MAPPARAMID                  ;
                                                     10  11 00057       BRB     7$                                  ;
                          025C  8F                   62  B1 00059 6$:    CMPW    (R2), #604                          ; 0414
                                                     0E  12 0005E       BNEQ    8$                                  ;
                                54                   0B  8E 00060       MNEGB   #11, CODE                           ; 0416
                                             04    AC  DD 00063       PUSHL   DATABASE                            ; 0417
                                69                   01  FB 00066       CALLS   #1, MOM_MAPENTITY                   ;
                                57                   50  B0 00069 7$:    MOVW    R0, DETAIL                          ;
                                                     7A  11 0006C       BRB     20$                                 ; 0418
                          0124  8F                   62  B1 0006E 8$:    CMPW    (R2), #292                          ; 0421
                                                     05  12 00073       BNEQ    9$                                  ;
                                54                   14  8E 00075       MNEGB   #20, CODE                           ; 0423
                                                     6E  11 00078       BRB     20$                                 ; 0424
                          0870  8F                   62  B1 0007A 9$:    CMPW    (R2), #2160                         ; 0427
                                                     11  12 0007F       BNEQ    10$                                 ;
                                54                   08  8E 00081       MNEGB   #8, CODE                            ; 0429
                                             04    AC  DD 00084       PUSHL   DATABASE                            ; 0430
                                69                   01  FB 00087       CALLS   #1, MOM_MAPENTITY                   ;
```

```
                                57                      50  B0 0008A          MOVW    R0, DETAIL                              ;
                                53                      08  CE 0008D          MNEGL   #8, STATUS                              ;  0431
                                                        58  11 00090          BRB     21$                                     ;  0397
                                24                      62  B1 00092 10$:     CMPW    (R2), #36                               ;  0434
                                                        05  12 00095          BNEQ    11$                                     ;
                                54                      03  8E 00097          MNEGB   #3, CODE                                ;  0436
                                                        4C  11 0009A          BRB     20$                                     ;  0437
                            0908    8F                  62  B1 0009C 11$:     CMPW    (R2), #2312                             ;  0440
                                                        05  12 000A1          BNEQ    12$                                     ;
                                54                      08  8E 000A3          MNEGB   #8, CODE                                ;  0442
                                                        1C  11 000A6          BRB     14$                                     ;  0443
                            20D4    8F                  62  B1 000A8 12$:     CMPW    (R2), #8404                             ;  0449
                                                        0B  12 000AD          BNEQ    13$                                     ;
                                54                      0B  8E 000AF          MNEGB   #11, CODE                               ;  0451
                                            04          A2  DD 000B2          PUSHL   4(R2)                                   ;  0452
                                6A                      01  FB 000B5          CALLS   #1, MOM_MAPPARAMID                      ;
                                                        10  11 000B8          BRB     15$                                     ;
                            0144    8F                  62  B1 000BA 13$:     CMPW    (R2), #324                              ;  0458
                                                        0E  12 000BF          BNEQ    16$                                     ;
                                54                      09  8E 000C1          MNEGB   #9, CODE                                ;  0460
                                            04          AC  DD 000C4 14$:     PUSHL   DATABASE                                ;  0461
                                69                      01  FB 000C7          CALLS   #1, MOM_MAPENTITY                       ;
                                57                      50  B0 000CA 15$:     MOVW    R0, DETAIL                              ;
                                                        13  11 000CD          BRB     18$                                     ;  0462
                            2194    8F                  62  B1 000CF 16$:     CMPW    (R2), #8596                             ;  0467
                                                        05  12 000D4          BNEQ    17$                                     ;
                                54                      19  8E 000D6          MNEGB   #25, CODE                               ;  0469
                                                        07  11 000D9          BRB     18$                                     ;  0470
                                54                      19  8E 000DB 17$:     MNEGB   #25, CODE                               ;  0477
                                57              04      A2  B0 000DE          MOVW    4(R2), DETAIL                           ;  0478
                                56                      62  3C 000E2 18$:     MOVZWL  (R2), TEXT                              ;  0479
                                55                      04  88 000E5 19$:     BISB2   #4, FLAGS                               ;  0480
                                                        53  D4 000E8 20$:     CLRL    STATUS                                  ;  0482
                                68                      55  D0 000EA 21$:     MOVL    FLAGS, MOM$AB_MSGBLOCK                  ;  0490
                            04  A8                      54  90 000ED          MOVB    CODE, MOM$AB_MSGBLOCK+4                 ;  0491
                            08  A8                      57  B0 000F1          MOVW    DETAIL, MOM$AB_MSGBLOCK+8               ;  0492
                            0C  A8                      56  D0 000F5          MOVL    TEXT, MOM$AB_MSGBLOCK+12                ;  0493
                                50                      53  D0 000F9          MOVL    STATUS, R0                              ;  0497
                                                            04 000FC          RET                                             ;  0499

; Routine Size:  253 bytes,    Routine Base:  $CODE$ + 019B
```

```
;   505          0500  1 %SBTTL 'mom_mapentity      Map NETACP database ID into entity type'
;   506          0501  1 ROUTINE mom_mapentity (database) =
;   507          0502  1
;   508          0503  1 !++
;   509          0504  1 ! FUNCTIONAL DESCRIPTION:
;   510          0505  1 !
;   511          0506  1 !       This routine translates the QIO database ID into a network
;   512          0507  1 !       management entity detail code.
;   513          0508  1 !
;   514          0509  1 ! INPUTS:
;   515          0510  1 !
;   516          0511  1 !       DATABASE        NETACP database ID
;   517          0512  1 !
;   518          0513  1 ! OUTPUTS:
;   519          0514  1 !
;   520          0515  1 !       The return value is the detail code.
;   521          0516  1 !--
;   522          0517  1
;   523          0518  2 BEGIN
;   524          0519  2
;   525          0520  2 LOCAL
;   526          0521  2     detail : WORD;
;   527          0522  2
;   528          0523  2 detail = (
;   529          0524  2     SELECTONE .database OF
;   530          0525  2         SET
;   531          0526  2         [nfb$c_db_pli]: nma$c_ent_lin;
;   532          0527  2
;   533          0528  2         [nfb$c_db_lni,
;   534          0529  2         nfb$c_db_ndi]: nma$c_ent_nod;
;   535          0530  2
;   536          0531  2
;   537          0532  2         [nfb$c_db_cri]: nma$c_ent_cir;
;   538          0533  2
;   539          0534  2         [nfb$c_db_aji]: nma$c_ent_nod;
;   540          0535  2
;   541          0536  2         [OTHERWISE]:    -1;
;   542          0537  2
;   543          0538  2         TES);
;   544          0539  2
;   545          0540  2 RETURN .detail
;   546          0541  2
;   547          0542  1 END;                                ! End of mom_mapentity


                                0000 00000 MOM_MAPENTITY:
                                           .WORD   Save nothing                    ; 0501
                     50    04   AC  D0 00002         MOVL    DATABASE, R0        ; 0524
                     05         50  D1 00006         CMPL    R0, #5              ; 0526
                                05  12 00009         BNEQ    1$                  ;
                     50         01  D0 0000B         MOVL    #1, R0              ;
                                1F  11 0000E         BRB     6$                  ;
                                50  D5 00010 1$:     TSTL    R0                  ; 0528
                                05  15 00012         BLEQ    2$                  ;
```

```
                        02          50  D1 00014          CMPL    R0, #2                                  ;
                                    0F  15 00017          BLEQ    4$                                      ;
                        04          50  D1 00019 2$:      CMPL    R0, #4                                  ; 0532
                                    05  12 0001C          BNEQ    3$                                      ;
                        50          03  D0 0001E          MOVL    #3, R0                                  ;
                                    0C  11 00021          BRB     6$                                      ;
                        13          50  D1 00023 3$:      CMPL    R0, #19                                 ; 0534
                                    04  12 00026          BNEQ    5$                                      ;
                                    50  D4 00028 4$:      CLRL    R0                                      ;
                                    03  11 0002A          BRB     6$                                      ;
                        50          01  CE 0002C 5$:      MNEGL   #1, R0                                  ; 0536
                        51          50  B0 0002F 6$:      MOVW    R0, DETAIL                              ; 0523
                        50          51  3C 00032          MOVZWL  DETAIL, R0                              ; 0540
                                    04  00035            RET                                             ; 0542

; Routine Size:  54 bytes,    Routine Base:  $CODE$ + 0298
```

```
1 %SBTTL 'mom_mapparamid        Map QIO parameter ID into management code'
1 ROUTINE mom_mapparamid (netacp_param_id) =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine translates the NETACP QIO parameter ID code into network
1 !       management parameter code.
1 !
1 ! INPUTS:
1 !       NETACP_PARAM_ID         NETACP NFB ID for parameter.  Returned in
1 !                               second longword of IOSB for some ACP QIO
1 !                               errors.
1 !
1 ! OUTPUTS:
1 !
1 !       The return value is the detail code.
1 !--
1
2 BEGIN
2
2 MAP
2     netacp_param_id: BBLOCK;
2
2 INCR svd_index FROM 0 TO svd$c_entry_count DO
3     BEGIN
3     IF .mom$ab_service_data [.svd_index, svd$l_nfb_id]
3                                           EQL .netacp_param_id THEN
3         RETURN .mom$ab_service_data [.svd_index, svd$w_nice_id];
2     END;
2
2 !
2 ! The parameter doesn't map to any NICE parameter.  Simply return
2 ! a null parameter value.
2 !
2 RETURN -1;
2
1 END;                                   ! End of mom_mapparamid


                              0000 00000 MOM_MAPPARAMID:
                                               .WORD    Save nothing                            ; 0544
          50                   01  CE 00002    MNEGL    #1, SVD_INDEX                           ; 0570
                               20  11 00005    BRB      2$
    51    50 00000089          8F  C5 00007 1$: MULL3   #137, SVD_INDEX, R1                     ; 0569
             00000000G0041     9F 0000F        PUSHAB   MOM$AB_SERVICE_DATA[R1]                 ; 0570
       04 AC                   9E  D1 00016    CMPL     @(SP)+, NETACP_PARAM_ID                 ;
                               0B  12 0001A    BNEQ     2$                                      ;
             00000000G0041     9F 0001C        PUSHAB   MOM$AB_SERVICE_DATA+4[R1]               ; 0571
          50                   9E  3C 00023    MOVZWL   @(SP)+, R0                              ;
                                   04 00026    RET                                              ;
    D8    50 00000000G         8F  F3 00027 2$: AOBLEQ  #SVD$C_ENTRY_COUNT, SVD_INDEX, 1$       ; 0567
          50                   01  CE 0002F    MNEGL    #1, R0                                  ; 0578
                                   04 00032    RET                                              ; 0580
```

```
; Routine Size:  51 bytes,    Routine Base:  $CODE$ + 02CE
```

```
;  588          0581  1 END                                          ! End of module
;  589          0582  1
;  590          0583  0 ELUDOM



                                                                    .EXTRN  LIB$SIGNAL

;                                   PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $OWN$                          64  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                        769  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                         44  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                                 Library Statistics
;
;                                 --------- Symbols ---------      Pages       Processing
;       File                      Total     Loaded    Percent      Mapped      Time
;
;  _$255$DUA28:[MOM.OBJ]MOMLIB.L32;1          194         25          12          21        00:00.1
;  _$255$DUA28:[SHRLIB]NMALIBRY.L32;1         887         12           1          47        00:00.2
;  _$255$DUA28:[SHRLIB]NET.L32;1             1279          7           0          63        00:00.3
;  _$255$DUA28:[SYSLIB]STARLET.L32;1         9776         17           0         581        00:03.1



;                                       COMMAND QUALIFIERS

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

; Size:          769 code + 108 data bytes
; Run Time:          00:18.6
; Elapsed Time:      00:45.1
; Lines/CPU Min:      1878
; Lexemes/CPU-Min:  10881
; Memory Used:  157 pages
; Compilation Complete
```

MOMBLDMSG
LIS

MOMINISTA
LIS

MOMLOAD
LIS

MOMACPIO
LIS

MOMDAT
LIS

NMAHEAD
B32

NPADEF
SDL

MOMDEF
SDL

NMATAIL
B32

MOMDDL
B32

NPAMAC
MAR

MOMLIB
LIS

MOMFILTO
LIS