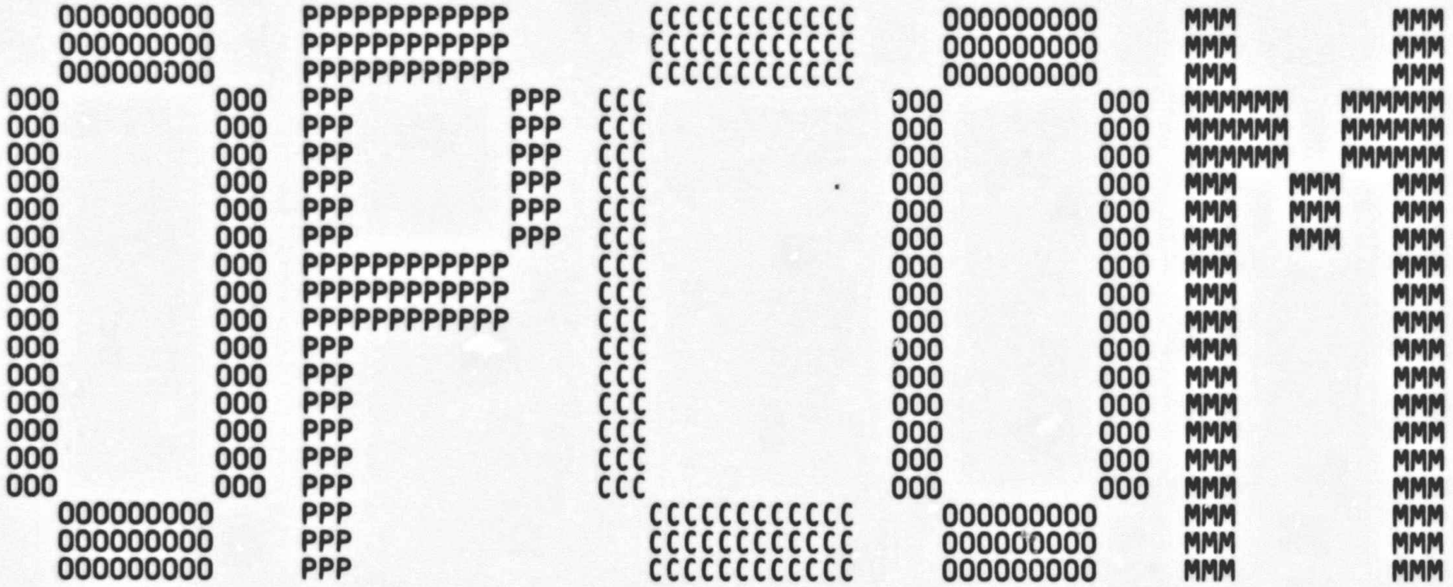
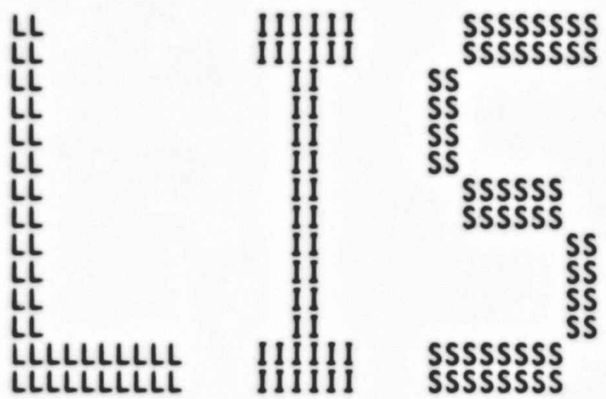


FILEID**OPCOMRPLY



```
;     1          0001  0 MODULE  OPC$OPCOMRPLY   (
;     2          0002  0                          LANGUAGE (BLISS32),
;     3          0003  0                          IDENT = 'V04-000'
;     4          0004  0                         ) =
;     5          0005  0
;     6          0006  0 !*****************************************************************************
;     7          0007  0 !*                                                                           *
;     8          0008  0 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
;     9          0009  0 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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;    25          0025  0 !*                                                                           *
;    26          0026  0 !*                                                                           *
;    27          0027  0 !*****************************************************************************
;    28          0028  0
;    29          0029  0 !++
;    30          0030  0 ! FACILITY:
;    31          0031  0 !
;    32          0032  0 !       OPCOM
;    33          0033  0 !
;    34          0034  0 ! ABSTRACT:
;    35          0035  0 !
;    36          0036  0 !       This module contains the specialized logic to service
;    37          0037  0 !       a particular type of request sent by a user to OPCOM.
;    38          0038  0 !
;    39          0039  0 ! Environment:
;    40          0040  0 !
;    41          0041  0 !       VAX/VMS operating system.
;    42          0042  0 !
;    43          0043  0 ! Author:
;    44          0044  0 !
;    45          0045  0 !       Steven T. Jeffreys
;    46          0046  0 !
;    47          0047  0 ! Creation date:
;    48          0048  0 !
;    49          0049  0 !       March 10, 1981
;    50          0050  0 !
;    51          0051  0 ! Revision history:
;    52          0052  0 !
;    53          0053  0 !       V03-003 CWH3003         CW Hobbs                        16-Sep-1983
;    54          0054  0 !               Use VM jacket routines.
;    55          0055  0 !
;    56          0056  0 !       V03-002 CWH3002         CW Hobbs                        30-Jul-1983
;    57          0057  0 !               Various and sundry things to make OPCOM distributed
```

```
;    58          0058  0 !                   across the cluster.
;    59          0059  0 !
;    60          0060  0 ! V03-001           STJ49918        Steven T. Jeffreys,     13-Oct-1982
;    61          0061  0 !                   Honor replies to a request even if the replier does not
;    62          0062  0 !                   have OPER privilege, as long as the reply originated from
;    63          0063  0 !                   an operator terminal attached to a process with the same
;    64          0064  0 !                   UIC as the request.
;    65          0065  0 !
;    66          0066  0 ! V02-004           STJ0163         Steven T. Jeffreys,     08-Feb-1982
;    67          0067  0 !                   Make references to library routines use general addressing mode.
;    68          0068  0 !
;    69          0069  0 ! V02-003           STJ0078         Steven T. Jeffreys,     01-Aug-1981
;    70          0070  0 !                   Added support for INITIALIZE and BLANK replies to the
;    71          0071  0 !                   mag. tape ACP's requests.
;    72          0072  0 !
;    73          0073  0 ! V02-002           STJ0043         Steven T. Jeffreys,     23-May-1981
;    74          0074  0 !                   Changed code to use new RQSTCMPLTE, RQSTABORT and RQSTPEND
;    75          0075  0 !                   message formats.  Note corresponding change to OPCMSG.MSG.
;    76          0076  0 !
;    77          0077  0 !--
;    78          0078  0
;    79          0079  1 BEGIN                                           ! Start of OPCOMRPLY
;    80          0080  1
;    81          0081  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    82          0082  1 LIBRARY 'LIB$:OPCOMLIB';
;    83          0083  1
;    84          0084  1 FORWARD ROUTINE
;    85          0085  1         REPLY_HANDLER   : NOVALUE,
;    86          0086  1         REPLY_CLM_HANDLER       : NOVALUE;
;    87          0087  1
;    88          0088  1 BUILTIN
;    89          0089  1         INSQUE,                                 ! Insert entry onto a queue
;    90          0090  1         REMQUE;                                 ! Remove entry from a queue
;    91          0091  1
;    92          0092  1 EXTERNAL ROUTINE
;    93          0093  1         CHECK_REQUEST,                          ! Common sanity checks
;    94          0094  1         CLUSMSG_CONV_CLM_RQCB,                  ! Convert cluster message to RQCB
;    95          0095  1         CLUSMSG_RQCB_SEND,                      ! Send RQCB to remote nodes
;    96          0096  1         DEALLOCATE_RQCB : NOVALUE,              ! Dispose of an RQCB
;    97          0097  1         DUMP_LOG_FILE,                          ! Format the message into the log file
;    98          0098  1         FIND_OPERATOR,                          ! Find a given operator
;    99          0099  1         FORMAT_MESSAGE,                         ! Format a given message
;   100          0100  1         LOG_MESSAGE,                            ! Write a message to a logfile
;   101          0101  1         NOTIFY_OPERATOR,                        ! Notify a single operator
;   102          0102  1         NOTIFY_LISTED_OPERATORS,                ! Notify a list of operators
;   103          0103  1         SEND_REPLY,                             ! Send a reply to a request
;   104          0104  1         VALID_OPERATOR;                         ! Check operator device
;   105          0105  1
;   106          0106  1 EXTERNAL LITERAL
;   107          0107  1         MIN_SCOPE,                              ! Minimum scope value
;   108          0108  1         MAX_SCOPE;                              ! Maximum scope value
```

```
;  110     0109  1 GLOBAL ROUTINE REPLY_HANDLER (BUFFER_DESC) : NOVALUE =
;  111     0110  1
;  112     0111  1 !++
;  113     0112  1 ! Functional description:
;  114     0113  1 !
;  115     0114  1 !       This routine is the handler for all REPLY messages received by OPCOM.
;  116     0115  1 !
;  117     0116  1 !
;  118     0117  1 ! Input:
;  119     0118  1 !
;  120     0119  1 !       BUFFER_DESC : The address of a quadword buffer descriptor that
;  121     0120  1 !                     describes the buffer containing the message.
;  122     0121  1 !
;  123     0122  1 ! Implicit Input:
;  124     0123  1 !
;  125     0124  1 !       None.
;  126     0125  1 !
;  127     0126  1 ! Output:
;  128     0127  1 !
;  129     0128  1 !       None.
;  130     0129  1 !
;  131     0130  1 ! Implict output:
;  132     0131  1 !
;  133     0132  1 !       Some accounting data will be updated
;  134     0133  1 !       to reflect the receipt of the message.
;  135     0134  1 !
;  136     0135  1 ! Side effects:
;  137     0136  1 !
;  138     0137  1 !       None.
;  139     0138  1 !
;  140     0139  1 ! Routine value:
;  141     0140  1 !
;  142     0141  1 !       None.
;  143     0142  1 !--
;  144     0143  1
;  145     0144  2 BEGIN                                           ! Start of REPLY_HANDLER
;  146     0145  2
;  147     0146  2 MAP
;  148     0147  2         BUFFER_DESC     : $ref_bblock;
;  149     0148  2
;  150     0149  2 LOCAL
;  151     0150  2         MESSAGE_VECTOR  : VECTOR [5,LONG],      ! Message info
;  152     0151  2         RQST            : $ref_bblock,          ! Request RQCB
;  153     0152  2         RQCB            : $ref_bblock,          ! Work RQCB
;  154     0153  2         OPER_RQCB       : $ref_bblock,          ! Operator RQCB
;  155     0154  2         MCB             : $ref_bblock,          ! MCB data structure
;  156     0155  2         OCD             : $ref_bblock,          ! OCD data structure
;  157     0156  2         MSG             : $ref_bblock,          !
;  158     0157  2         MESSAGE         : LONG,                 ! Holds message code
;  159     0158  2         RQST_COUNT      : LONG,                 ! # of outstanding requests
;  160     0159  2         FOUND           : LONG,                 ! Boolean
;  161     0160  2         STATUS          : LONG;
;  162     0161  2
;  163     0162  2 !
;  164     0163  2 ! Check request size
;  165     0164  2 !
;  166     0165  3 IF .BUFFER_DESC [DSC$W_LENGTH] LSS (OPC$K_COMHDRSIZ + OPC$K_REPLY_MIN_SIZE)
```

```
;  167          0166  2 THEN
;  168          0167  2     RETURN;
;  169          0168  2 !
;  170          0169  2 ! Do some common sanity checks.
;  171          0170  2 !
;  172          0171  2 IF NOT CHECK_REQUEST (.BUFFER_DESC, RQCB)
;  173          0172  2 THEN
;  174          0173  2     RETURN;
;  175          0174  2 !
;  176          0175  2 ! Make sure this is a valid operator.  If not, ignore the request.
;  177          0176  2 !
;  178          0177  2 IF NOT VALID_OPERATOR (.BUFFER_DESC,.RQCB)
;  179          0178  2 THEN
;  180          0179  3     BEGIN
;  181          0180  3     DEALLOCATE_RQCB (.RQCB);
;  182          0181  3     RETURN;
;  183          0182  2     END;
;  184          0183  2 !
;  185          0184  2 ! Create a descriptor for the reply text, if any.
;  186          0185  2 ! MSG is pointer to the beginning of the ASCIC text string.
;  187          0186  2 ! Note that the count is a word size.
;  188          0187  2 !
;  189          0188  2 MSG = .BUFFER_DESC [DSC$A_POINTER] + OPC$K_COMHDRSIZ;
;  190          0189  2 MSG = .BUFFER_DESC [DSC$A_POINTER] + (OPC$K_COMHDRSIZ + OPC$K_HDR_SIZE + .$bblock [MSG [OPC$T_OPRENABLE_OPR]
;  191          0190  2 IF .MSG [0,0,16,0] GTR 0
;  192          0191  2 THEN
;  193          0192  3     BEGIN
;  194          0193  3     RQCB [RQCB_L_TEXT_LEN] = .MSG [0,0,16,0];
;  195          0194  4     IF NOT (STATUS = OPC$GET_VM (RQCB [RQCB_L_TEXT_LEN], RQCB [RQCB_L_TEXT_PTR]))
;  196          0195  3     THEN
;  197          0196  3         $signal_stop (.STATUS);
;  198          0197  3     CH$MOVE (.RQCB [RQCB_L_TEXT_LEN], MSG [2,0,0,0], .RQCB [RQCB_L_TEXT_PTR]);
;  199          0198  2     END;
;  200          0199  2 !
;  201          0200  2 ! Perform some more checks.  These include:
;  202          0201  2 ! - The operator must be known to OPCOM
;  203          0202  2 ! - The reply must be valid
;  204          0203  2 !
;  205          0204  2 IF NOT FIND_OPERATOR (.RQCB, OPER_RQCB)
;  206          0205  3 OR NOT (SELECTONE .RQCB [RQCB_L_RQ_OPTIONS] OF
;  207          0206  3                 SET
;  208          0207  3                 [OPC$_RQSTPEND]       : TRUE;          ! Valid reply status
;  209          0208  3                 [OPC$_RQSTCMPLTE]     : TRUE;          ! Valid reply status
;  210          0209  3                 [OPC$_RQSTABORT]      : TRUE;          ! Valid reply status
;  211          0210  3                 [OPC$_INITAPE]        : TRUE;          ! Valid reply status
;  212          0211  3                 [OPC$_BLANKTAPE]      : .$bblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_VOLPRO];     ! Valid if user has
;  213          0212  3                 [OTHERWISE]           : FALSE;         ! All others are invalid
;  214          0213  3                 TES)
;  215          0214  2 THEN
;  216          0215  3     BEGIN
;  217          0216  3     MESSAGE_VECTOR [0] = OPC$_ILLRQST;                   ! Set message code
;  218          0217  3     MESSAGE_VECTOR [1] = 0;                              ! Set message NARGS
;  219          0218  3     END
;  220          0219  2 ELSE
;  221          0220  3     BEGIN
;  222          0221  3     !
;  223          0222  3     ! Search through the requests queued to this OCD for the
```

```
;  224     0223  3     ! specified request.  This implies that an operator may
;  225     0224  3     ! only influence requests of the same scope as the operator.
;  226     0225  3     !
;  227     0226  3     FOUND = FALSE;                                  ! Assume not found
;  228     0227  3     MESSAGE_VECTOR [0] = OPC$_NOSUCHRQST;           ! Set message code
;  229     0228  3     MESSAGE_VECTOR [1] = 0;                         ! Set message NARGS
;  230     0229  3     OCD = .OPER_RQCB [RQCB_L_OCD];                  ! Get OCD address
;  231     0230  3     RQST_COUNT = .OCD [OCD_W_RQSTCOUNT];            ! Get # of requests
;  232     0231  3     RQST = .OCD [OCD_L_RQSTFLINK];                  ! Get first request address
;  233     0232  3     WHILE (NOT .FOUND) AND (.RQST_COUNT GTR 0) DO
;  234     0233  3         IF .RQCB [RQCB_L_RQSTID] NEQ .RQST [RQCB_L_RQSTNUM]
;  235     0234  3         THEN
;  236     0235  4             BEGIN
;  237     0236  4             RQST_COUNT = .RQST_COUNT - 1;           ! Decrement request count
;  238     0237  4             RQST = .RQST [RQCB_L_FLINK];            ! Get address of next request RQCB
;  239     0238  4             END
;  240     0239  3         ELSE
;  241     0240  4             BEGIN
;  242     0241  4             !
;  243     0242  4             ! We've found the request.  If the operator has the privilege
;  244     0243  4             ! to reply to this request, then format the reply text (if any)
;  245     0244  4             ! and send the reply to the requestor.
;  246     0245  4             !
;  247     0246  4             FOUND = TRUE;                           ! Note that we found it
;  248     0247  5             IF (.$bbblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_OPER])
;  249     0248  5             OR ((.RQCB [RQCB_B_SCOPE] EQL OPC$K_GROUP) AND (.$bbblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_GROUP])
;  250     0249  5             OR (.RQCB [RQCB_L_UIC] EQL .RQST [RQCB_L_UIC])
;  251     0250  4             THEN
;  252     0251  5                 BEGIN
;  253     0252  5                 MESSAGE_VECTOR [0] = .RQCB [RQCB_L_RQ_OPTIONS];
;  254     0253  5                 MESSAGE_VECTOR [1] = RQCB [RQCB_L_TEXT_LEN];
;  255     0254  5                 MESSAGE_VECTOR [2] = 0;
;  256     0255  5                 MESSAGE_VECTOR [3] = .RQCB [RQCB_L_RQSTID];
;  257     0256  5                 MESSAGE_VECTOR [4] = RQCB [RQCB_L_OPER_LEN];
;  258     0257  5                 FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
;  259     0258  5                 !
;  260     0259  5                 ! Attempt to notify the person
;  261     0260  5                 !
;  262     0261  5                 MCB = .RQST [RQCB_L_MCB];                       ! Save MCB address
;  263     0262  5                 RQST [RQCB_L_MCB] = .RQCB [RQCB_L_MCB]; ! Set new MCB
;  264     0263  5                 IF NOT SEND_REPLY (.RQST)                       ! Send the reply
;  265     0264  5                 THEN
;  266     0265  6                     BEGIN
;  267     0266  6                     !
;  268     0267  6                     ! The requestor could not be notified.  This
;  269     0268  6                     ! means that the requestor has implicitly canceled
;  270     0269  6                     ! the request.
;  271     0270  6                     !
;  272     0271  6                     MESSAGE_VECTOR [0] = OPC$_RQSTCAN;  ! Set message code
;  273     0272  6                     MESSAGE_VECTOR [1] = 0;             ! Set message Nargs
;  274     0273  6                     MESSAGE_VECTOR [2] = .RQCB [RQCB_L_RQSTID];
;  275     0274  6                     FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
;  276     0275  6                     END
;  277     0276  6                 !
;  278     0277  6                 ! Able to reply, send it to everyone else in the cluster
;  279     0278  6                 !
;  280     0279  5                 ELSE
```

```
;  281          0280  5                  CLUSMSG_RQCB_SEND (-1, CLM__REPLY, .RQCB);  ! Send it everywhere
;  282          0281  5              RQST [RQCB_L_MCB] = .MCB;                       ! Restore the MCB
;  283          0282  5              END
;  284          0283  4          ELSE
;  285          0284  5              BEGIN
;  286          0285  5              !
;  287          0286  5              ! The operator did not have the privilege to reply to this request.
;  288          0287  5              ! Set up the message so that he will be notified that his was an
;  289          0288  5              ! illegal request.
;  290          0289  5              !
;  291          0290  5              MESSAGE_VECTOR [0] = OPC$_ILLRQST;              ! Set message code
;  292          0291  5              MESSAGE_VECTOR [1] = 0;                         ! Set message NARGS
;  293          0292  4              END;
;  294          0293  3          END;
;  295          0294  2      END;
;  296          0295  2  !
;  297          0296  2  ! Finish processing.  Decide what to do based on the message code.
;  298          0297  2  !
;  299          0298  2  SELECTONE .MESSAGE_VECTOR [0] OF
;  300          0299  2      SET
;  301          0300  2      [OPC$_ILLRQST,
;  302          0301  3       OPC$_NOSUCHRQST]   : BEGIN
;  303          0302  3                            !
;  304          0303  3                            ! Inform the operator that the reply failed.
;  305          0304  3                            !
;  306          0305  3                            FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
;  307          0306  3                            NOTIFY_OPERATOR (.RQCB);
;  308          0307  2                            END;
;  309          0308  2
;  310          0309  3      [OPC$_RQSTPEND]      : BEGIN
;  311          0310  3                            !
;  312          0311  3                            ! Log the message.  Set the intrest mask so that
;  313          0312  3                            ! the message is logged properly.
;  314          0313  3                            !
;  315          0314  3                            RQCB [RQCB_L_ATTNMASK1] = .RQST [RQCB_L_ATTNMASK1];
;  316          0315  3                            RQCB [RQCB_L_ATTNMASK2] = .RQST [RQCB_L_ATTNMASK2];
;  317          0316  3                            LOG_MESSAGE (.RQCB);
;  318          0317  2                            END;
;  319          0318  2
;  320          0319  2      [OPC$_RQSTCAN,
;  321          0320  2       OPC$_RQSTABORT,
;  322          0321  2       OPC$_INITAPE,
;  323          0322  2       OPC$_BLANKTAPE,
;  324          0323  3       OPC$_RQSTCMPLTE] : BEGIN
;  325          0324  3                          !
;  326          0325  3                          ! The request must be removed from the OCD's list, and the operators must be
;  327          0326  3                          ! notified.  Set the replier's interest mask so that the interested
;  328          0327  3                          ! operators will be notified.
;  329          0328  3                          !
;  330          0329  3                          RQCB [RQCB_L_ATTNMASK1] = .RQST [RQCB_L_ATTNMASK1];
;  331          0330  3                          RQCB [RQCB_L_ATTNMASK2] = .RQST [RQCB_L_ATTNMASK2];
;  332          0331  3                          REMQUE (.RQST, RQST);
;  333          0332  3                          OCD = .RQST [RQCB_L_OCD];
;  334          0333  3                          OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] - 1;
;  335          0334  3                          DEALLOCATE_RQCB (.RQST);
;  336          0335  3                          !
;  337          0336  3                          ! Log and notify
```

```
;  338          0337  3                          !
;  339          0338  3                          LOG_MESSAGE (.RQCB);
;  340          0339  3                          NOTIFY_LISTED_OPERATORS (.RQCB);
;  341          0340  2                          END;
;  342          0341  2      TES;
;  343          0342  2
;  344          0343  2  DEALLOCATE_RQCB (.RQCB);
;  345          0344  2
;  346          0345  2  RETURN;
;  347          0346  1  END;                                    ! End of REPLY_HANDLER


                                                                 .TITLE  OPC$OPCOMRPLY
                                                                 .IDENT  \V04-000\

                                                                 .EXTRN  CHECK_REQUEST, CLUSMSG_CONV_CLM_RQCB
                                                                 .EXTRN  CLUSMSG_RQCB_SEND
                                                                 .EXTRN  DEALLOCATE_RQCB
                                                                 .EXTRN  DUMP_LOG_FILE, FIND_OPERATOR
                                                                 .EXTRN  FORMAT_MESSAGE, LOG_MESSAGE
                                                                 .EXTRN  NOTIFY_OPERATOR
                                                                 .EXTRN  NOTIFY_LISTED_OPERATORS
                                                                 .EXTRN  SEND_REPLY, VALID_OPERATOR
                                                                 .EXTRN  MIN_SCOPE, MAX_SCOPE
                                                                 .EXTRN  OPC$GET_VM, LIB$STOP

                                                                 .PSECT  $CODE$,NOWRT,2

                                        01FC 00000               .ENTRY  REPLY_HANDLER, Save R2,R3,R4,R5,R6,R7,R8    ; 0109
                                58      0000G CF   9E 00002      MOVAB   FORMAT_MESSAGE, R8
                                5E            1C   C2 00007      SUBL2   #28, SP
                                53        04  AC   D0 0000A      MOVL    BUFFER_DESC, R3                             ; 0165
                          0046  8F            63   B1 0000E      CMPW    (R3), #70
                                              01   1E 00013      BGEQU   1$
                                              04   00 00015      RET
                                        4008  8F   BB 00016 1$:   PUSHR   #^M<R3,SP>                               ; 0171
                          0000G CF            02   FB 0001A      CALLS   #2, CHECK_REQUEST
                                01            50   E8 0001F      BLBS    R0, 2$
                                              04   00 00022      RET
                                56            6E   D0 00023 2$:   MOVL    RQCB, R6                                ; 0177
                                        0048  8F   BB 00026      PUSHR   #^M<R3,R6>
                          0000G CF            02   FB 0002A      CALLS   #2, VALID_OPERATOR
                                05            50   E8 0002F      BLBS    R0, 3$
                                              56   DD 00032      PUSHL   R6                                          ; 0180
                                        01D7  31   00 00034      BRW     23$
                     52   04  A3              26   C1 00037 3$:   ADDL3   #38, 4(R3), MSG                         ; 0188
                                50        1A  A2   9A 0003C      MOVZBL  26(MSG), R0                                 ; 0189
                     53         50        04  A3   C1 00040      ADDL3   4(R3), R0, R3
                                52        41  A3   9E 00045      MOVAB   65(R3), MSG
                                              62   B5 00049      TSTW    (MSG)                                       ; 0190
                                              27   13 0004B      BEQL    5$
                                53      0084  C6   9E 0004D      MOVAB   132(R6), R3                                 ; 0193
                                63            62   3C 00052      MOVZWL  (MSG), (R3)
                                        0088  C6   9F 00055      PUSHAB  136(R6)                                     ; 0194
                                              53   DD 00059      PUSHL   R3
                          0000G CF            02   FB 0005B      CALLS   #2, OPC$GET_VM
                                0A            50   E8 00060      BLBS    STATUS, 4$
```

```
                                                50   DD 00063          PUSHL   STATUS                                    ; 0196
                00000000G   00                 01   FB 00065          CALLS   #1, LIB$STOP                             ;
                                                04   0006C            RET                                              ;
0088    D6          02   A2                     63   28 0006D 4$:      MOVC3   (R3), 2(MSG), @136(R6)                   ; 0197
                                        04      AE   9F 00074 5$:      PUSHAB  OPER_RQCB                                ; 0204
                                                56   DD 00077          PUSHL   R6                                       ;
                    0000G   CF                  02   FB 00079          CALLS   #2, FIND_OPERATOR                        ;
                                                36   50   E9 0007E      BLBC    R0, 6$                                   ;
                                                50   58   A6 D0 00081   MOVL    88(R6), R0                               ; 0205
                00058021    8F                  50   D1 00085          CMPL    R0, #360481                              ; 0207
                                                37   13 0008C          BEQL    8$                                       ;
                00058029    8F                  50   D1 0008E          CMPL    R0, #360489                              ; 0208
                                                2E   13 00095          BEQL    8$                                       ;
                0005801C    8F                  50   D1 00097          CMPL    R0, #360476                              ; 0209
                                                25   13 0009E          BEQL    8$                                       ;
                000581D3    8F                  50   D1 000A0          CMPL    R0, #360915                              ; 0210
                                                1C   13 000A7          BEQL    8$                                       ;
                000581E3    8F                  50   D1 000A9          CMPL    R0, #360931                              ; 0211
                                                05   12 000B0          BNEQ    6$                                       ;
            0E      32   A6                     05   E0 000B2          BBS     #5, 50(R6), 8$                           ;
                    08   AE 0005807C    8F      D0 000B7 6$:           MOVL    #360572, MESSAGE_VECTOR                  ; 0216
                                        0C      AE   D4 000BF          CLRL    MESSAGE_VECTOR+4                         ; 0217
                                                00B8 31 000C2 7$:      BRW     17$                                      ; 0204
                                                53   D4 000C5 8$:      CLRL    FOUND                                    ; 0226
                    08   AE 00058044    8F      D0 000C7          MOVL    #360516, MESSAGE_VECTOR                  ; 0227
                                        0C      AE   D4 000CF          CLRL    MESSAGE_VECTOR+4                         ; 0228
                                50      04      AE   D0 000D2          MOVL    OPER_RQCB, R0                            ; 0229
                                54      24      A0   D0 000D6          MOVL    36(R0), OCD                              ;
                                55      3A      A4   3C 000DA          MOVZWL  58(OCD), RQST_COUNT                      ; 0230
                                52      3C      A4   D0 000DE          MOVL    60(OCD), RQST                            ; 0231
                                DD              53   E8 000E2 9$:      BLBS    FOUND, 7$                                ; 0232
                                                55   D5 000E5          TSTL    RQST_COUNT                               ;
                                                D9   15 000E7          BLEQ    7$                                       ;
                    70   A2             64      A6   D1 000E9          CMPL    100(R6), 112(RQST)                       ; 0233
                                                07   13 000EE          BEQL    11$                                      ;
                                                55   D7 000F0          DECL    RQST_COUNT                               ; 0236
                                52              62   D0 000F2          MOVL    (RQST), RQST                             ; 0237
                                                EB   11 000F5 10$:     BRB     9$                                       ; 0233
                                53              01   D0 000F7 11$:     MOVL    #1, FOUND                                ; 0246
                11      32   A6                 02   E0 000FA          BBS     #2, 50(R6), 13$                          ; 0247
                                02      53      A6   91 000FF          CMPB    83(R6), #2                               ; 0248
                                                04   12 00103          BNEQ    12$                                      ;
                                07      31      A6   E8 00105          BLBS    49(R6), 13$                              ;
                    68   A2             68      A6   D1 00109 12$:     CMPL    104(R6), 104(RQST)                       ; 0249
                                                5F   12 0010E          BNEQ    16$                                      ;
                    08   AE             58      A6   D0 00110 13$:     MOVL    88(R6), MESSAGE_VECTOR                   ; 0252
                    0C   AE          0084       C6   9E 00115          MOVAB   132(R6), MESSAGE_VECTOR+4                ; 0253
                                        10      AE   D4 0011B          CLRL    MESSAGE_VECTOR+8                         ; 0254
                    14   AE             64      A6   D0 0011E          MOVL    100(R6), MESSAGE_VECTOR+12               ; 0255
                    18   AE             7C      A6   9E 00123          MOVAB   124(R6), MESSAGE_VECTOR+16               ; 0256
                                        08      AE   9F 00128          PUSHAB  MESSAGE_VECTOR                           ; 0257
                                                56   DD 0012B          PUSHL   R6                                       ;
                                68              02   FB 0012D          CALLS   #2, FORMAT_MESSAGE                       ;
                                57              6C   A2 D0 00130      MOVL    108(RQST), MCB                           ; 0261
                    6C   A2             6C      A6   D0 00134          MOVL    108(R6), 108(RQST)                       ; 0262
                                                52   DD 00139          PUSHL   RQST                                     ; 0263
                0000G   CF                      01   FB 0013B          CALLS   #1, SEND_REPLY                           ;
```

```
                1A              50  E8 00140          BLBS    R0, 14$                                         ;
             08 AE 00058084     8F  D0 00143          MOVL    #360580, MESSAGE_VECTOR                         ; 0271
                   0C           AE  D4 0014B          CLRL    MESSAGE_VECTOR+4                                ; 0272
             10 AE       64     A6  D0 0014E          MOVL    100(R6), MESSAGE_VECTOR+8                       ; 0273
                   08 AE        9F  00153             PUSHAB  MESSAGE_VECTOR                                  ; 0274
                               56  DD 00156          PUSHL   R6                                              ;
                   68          02  FB 00158          CALLS   #2, FORMAT_MESSAGE                              ;
                               0C  11 0015B          BRB     15$                                             ; 0263
                               56  DD 0015D 14$:      PUSHL   R6                                              ; 0280
                               0C  DD 0015F          PUSHL   #12                                             ;
                   7E          01  CE 00161          MNEGL   #1, -(SP)                                       ;
             0000G CF          03  FB 00164          CALLS   #3, CLUSMSG_RQCB_SEND                           ;
                6C A2          57  D0 00169 15$:      MOVL    MCB, 108(RQST)                                  ; 0281
                               86  11 0016D          BRB     10$                                             ; 0247
             08 AE 0005807C     8F  D0 0016F 16$:      MOVL    #360572, MESSAGE_VECTOR                         ; 0290
                   0C           AE  D4 00177          CLRL    MESSAGE_VECTOR+4                                ; 0291
                      FF65      31  0017A             BRW     9$                                              ; 0233
                   53 08 AE        D0 0017D 17$:      MOVL    MESSAGE_VECTOR, R3                              ; 0298
00058044 8F                        53  D1 00181          CMPL    R3, #360516                                     ; 0300
                               09  13 00188          BEQL    18$                                             ;
0005807C 8F                        53  D1 0018A          CMPL    R3, #360572                                     ;
                               11  12 00191          BNEQ    19$                                             ;
                   08 AE       9F  00193 18$:      PUSHAB  MESSAGE_VECTOR                                  ; 0305
                               56  DD 00196          PUSHL   R6                                              ;
                   68          02  FB 00198          CALLS   #2, FORMAT_MESSAGE                              ;
                               56  DD 0019B          PUSHL   R6                                              ; 0306
             0000G CF          01  FB 0019D          CALLS   #1, NOTIFY_OPERATOR                             ;
                               68  11 001A2          BRB     22$                                             ; 0298
00058021 8F                        53  D1 001A4 19$:      CMPL    R3, #360481                                     ; 0309
                               0E  12 001AB          BNEQ    20$                                             ;
                5C A6       5C  A2  7D 001AD          MOVQ    92(RQST), 92(R6)                                ; 0314
                               56  DD 001B2          PUSHL   R6                                              ; 0316
                0000G CF          01  FB 001B4          CALLS   #1, LOG_MESSAGE                                 ;
                               51  11 001B9          BRB     22$                                             ; 0298
0005801C 8F                        53  D1 001BB 20$:      CMPL    R3, #360476                                     ; 0319
                               24  13 001C2          BEQL    21$                                             ;
00058029 8F                        53  D1 001C4          CMPL    R3, #360489                                     ;
                               1B  13 001CB          BEQL    21$                                             ;
00058084 8F                        53  D1 001CD          CMPL    R3, #360580                                     ;
                               12  13 001D4          BEQL    21$                                             ;
000581D3 8F                        53  D1 001D6          CMPL    R3, #360915                                     ;
                               09  13 001DD          BEQL    21$                                             ;
000581E3 8F                        53  D1 001DF          CMPL    R3, #360931                                     ;
                               24  12 001E6          BNEQ    22$                                             ;
                5C A6       5C  A2  7D 001E8 21$:      MOVQ    92(RQST), 92(R6)                                ; 0329
                   52          62  0F 001ED          REMQUE  (RQST), RQST                                    ; 0331
                   54 24       A2  D0 001F0          MOVL    36(RQST), OCD                                   ; 0332
                      3A       A4  B7 001F4          DECW    58(OCD)                                         ; 0333
                               52  DD 001F7          PUSHL   RQST                                            ; 0334
                0000G CF          01  FB 001F9          CALLS   #1, DEALLOCATE_RQCB                             ;
                               6E  DD 001FE          PUSHL   RQCB                                            ; 0338
                0000G CF          01  FB 00200          CALLS   #1, LOG_MESSAGE                                 ;
                               6E  DD 00205          PUSHL   RQCB                                            ; 0339
                0000G CF          01  FB 00207          CALLS   #1, NOTIFY_LISTED_OPERATORS                     ;
                               6E  DD 0020C 22$:      PUSHL   RQCB                                            ; 0343
                0000G CF          01  FB 0020E 23$:      CALLS   #1, DEALLOCATE_RQCB                             ;
                                   04  00213          RET                                                     ; 0346
```

```
; Routine Size:  532 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  349          0347  1 GLOBAL ROUTINE REPLY_CLM_HANDLER (BUFFER_DESC : $ref_bblock, CLM : $ref_bblock, LEN) : NOVALUE =
;  350          0348  1
;  351          0349  1 !++
;  352          0350  1 ! Functional description:
;  353          0351  1 !
;  354          0352  1 !       This routine is the handler for all REPLY messages received by OPCOM from remote nodes.
;  355          0353  1 !
;  356          0354  1 !
;  357          0355  1 ! Input:
;  358          0356  1 !
;  359          0357  1 !       BUFFER_DESC -   pointer to message from remote node, including $SNDOPR header
;  360          0358  1 !       CLM -           pointer to CLMRQCB structure
;  361          0359  1 !       LEN -           length of LEN
;  362          0360  1 !
;  363          0361  1 ! Implicit Input:
;  364          0362  1 !
;  365          0363  1 !       None.
;  366          0364  1 !
;  367          0365  1 ! Output:
;  368          0366  1 !
;  369          0367  1 !       None.
;  370          0368  1 !
;  371          0369  1 ! Implict output:
;  372          0370  1 !
;  373          0371  1 !       Some accounting data will be updated
;  374          0372  1 !       to reflect the receipt of the message.
;  375          0373  1 !
;  376          0374  1 ! Side effects:
;  377          0375  1 !
;  378          0376  1 !       None.
;  379          0377  1 !
;  380          0378  1 ! Routine value:
;  381          0379  1 !
;  382          0380  1 !       None.
;  383          0381  1 !--
;  384          0382  1
;  385          0383  2 BEGIN                                           ! Start of REPLY_CLM_HANDLER
;  386          0384  2
;  387          0385  2 LOCAL
;  388          0386  2         RQST            : $ref_bblock,          ! Request RQCB
;  389          0387  2         RQCB            : $ref_bblock,          ! Work RQCB
;  390          0388  2         OPER_RQCB       : $ref_bblock,          ! Operator RQCB
;  391          0389  2         MCB             : $ref_bblock,          ! MCB data structure
;  392          0390  2         OCD             : $ref_bblock,          ! OCD data structure
;  393          0391  2         MSG             : $ref_bblock,          !
;  394          0392  2         MESSAGE         : LONG,                 ! Holds message code
;  395          0393  2         RQST_COUNT      : LONG,                 ! # of outstanding requests
;  396          0394  2         STATUS          : LONG;
;  397          0395  2
;  398          0396  2 !
;  399          0397  2 ! Check the version number of the message.  If the message is from any other version,
;  400          0398  2 ! simply ignore it.
;  401          0399  2 !
;  402          0400  2 IF .CLM [CLM_B_DS_VERSION] NEQ CLMRQCB_K_DS_VERSION
;  403          0401  2 THEN
;  404          0402  2     RETURN DUMP_LOG_FILE (.BUFFER_DESC, %ASCID 'CLM__x mismatch');
;  405          0403  2 !
```

```
;  406     0404  2 ! Allocate an RQCB and convert the message RQCB into the new RQCB
;  407     0405  2 !
;  408     0406  2 IF NOT CLUSMSG_CONV_CLM_RQCB (.CLM, RQCB)
;  409     0407  2 THEN
;  410     0408  2     RETURN DUMP_LOG_FILE (.BUFFER_DESC, ascid_INVALIDRQCB);
;  411     0409  2 !
;  412     0410  2 ! Perform some more checks.  These include:
;  413     0411  2 ! - The operator must be known to OPCOM
;  414     0412  2 ! - The reply must be valid
;  415     0413  2 !
;  416     0414  2 IF NOT FIND_OPERATOR (.RQCB, OPER_RQCB)
;  417     0415  2 THEN
;  418     0416  3     BEGIN
;  419     0417  3     DUMP_LOG_FILE (.BUFFER_DESC, %ASCID 'reply operator not found');
;  420     0418  3     DEALLOCATE_RQCB (.RQCB);
;  421     0419  3     RETURN;
;  422     0420  2     END;
;  423     0421  2 !
;  424     0422  2 ! Search through the requests queued to this OCD for the
;  425     0423  2 ! specified request.  This implies that an operator may
;  426     0424  2 ! only influence requests of the same scope as the operator.
;  427     0425  2 !
;  428     0426  2 OCD = .OPER_RQCB [RQCB_L_OCD];          ! Get OCD address
;  429     0427  2 RQST = .OCD [OCD_L_RQSTFLINK];          ! Get first request address
;  430     0428  2 WHILE .RQST NEQ OCD [OCD_L_RQSTFLINK] DO
;  431     0429  3     BEGIN
;  432     0430  3     IF .RQCB [RQCB_L_RQSTID] NEQ .RQST [RQCB_L_RQSTNUM]
;  433     0431  3     THEN
;  434     0432  3         RQST = .RQST [RQCB_L_FLINK]          ! Get address of next request RQCB
;  435     0433  3     ELSE
;  436     0434  4         BEGIN
;  437     0435  4         !
;  438     0436  4         ! We've found the request.  If the operator has the privilege
;  439     0437  4         ! to reply to this request, then format the reply text (if any)
;  440     0438  4         ! and send the reply to the requestor.
;  441     0439  4         !
;  442     0440  4         MCB = .RQST [RQCB_L_MCB];                    ! Save MCB address
;  443     0441  4         RQST [RQCB_L_MCB] = .RQCB [RQCB_L_MCB]; ! Set new MCB
;  444     0442  4         SEND_REPLY (.RQST);                          ! Send the reply
;  445     0443  4         RQST [RQCB_L_MCB] = .MCB;                    ! Restore the MCB
;  446     0444  4         EXITLOOP;
;  447     0445  3         END;
;  448     0446  2     END;
;  449     0447  2 !
;  450     0448  2 ! Request not found, oh well
;  451     0449  2 !
;  452     0450  2 IF .RQST EQL OCD [OCD_L_RQSTFLINK]
;  453     0451  2 THEN
;  454     0452  3     BEGIN
;  455     0453  3     DUMP_LOG_FILE (.BUFFER_DESC, %ASCID 'reply request not found');
;  456     0454  3     DEALLOCATE_RQCB (.RQCB);
;  457     0455  3     RETURN;
;  458     0456  2     END;
;  459     0457  2 !
;  460     0458  2 ! Finish processing.  Decide what to do based on the message code.
;  461     0459  2 !
;  462     0460  2 IF (MCB = .RQCB [RQCB_L_MCB]) NEQ 0
```

```
;  463          0461  2 THEN
;  464          0462  3     BEGIN
;  465          0463  3     SELECTONE .MCB [MCB_L_MSGID] OF
;  466          0464  3         SET
;  467          0465  4         [OPC$_RQSTPEND] : BEGIN
;  468          0466  4                           !
;  469          0467  4                           ! Log the message.  Set the intrest mask so that
;  470          0468  4                           ! the message is logged properly.
;  471          0469  4                           !
;  472          0470  4                           RQCB [RQCB_L_ATTNMASK1] = .RQST [RQCB_L_ATTNMASK1];
;  473          0471  4                           RQCB [RQCB_L_ATTNMASK2] = .RQST [RQCB_L_ATTNMASK2];
;  474          0472  4                           LOG_MESSAGE (.RQCB);
;  475          0473  3                           END;
;  476          0474  3
;  477          0475  3         [OPC$_RQSTCAN,
;  478          0476  3          OPC$_RQSTABORT,
;  479          0477  3          OPC$_INITAPE,
;  480          0478  3          OPC$_BLANKTAPE,
;  481          0479  4          OPC$_RQSTCMPLTE]       : BEGIN
;  482          0480  4                           !
;  483          0481  4                           ! The request must be removed from the OCD's list,
;  484          0482  4                           ! and the operators must be notified.  Set the
;  485          0483  4                           ! replier's interest mask so that the interested
;  486          0484  4                           ! operators will be notified.
;  487          0485  4                           !
;  488          0486  4                           RQCB [RQCB_L_ATTNMASK1] = .RQST [RQCB_L_ATTNMASK1];
;  489          0487  4                           RQCB [RQCB_L_ATTNMASK2] = .RQST [RQCB_L_ATTNMASK2];
;  490          0488  4                           REMQUE (.RQST, RQST);
;  491          0489  4                           OCD = .RQST [RQCB_L_OCD];
;  492          0490  4                           OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] - 1;
;  493          0491  4                           DEALLOCATE_RQCB (.RQST);
;  494          0492  4                           LOG_MESSAGE (.RQCB);
;  495          0493  4                           NOTIFY_LISTED_OPERATORS (.RQCB);
;  496          0494  3                           END;
;  497          0495  3         [OTHERWISE] :   DUMP_LOG_FILE (.BUFFER_DESC, %ASCID 'unexpected status for reply');
;  498          0496  3         TES;
;  499          0497  3     END
;  500          0498  3 !
;  501          0499  3 ! What, no MCB on the message!  Bogus
;  502          0500  3 !
;  503          0501  2 ELSE
;  504          0502  2     DUMP_LOG_FILE (.BUFFER_DESC, %ASCID 'no MCB on reply message');
;  505          0503  2
;  506          0504  2 DEALLOCATE_RQCB (.RQCB);
;  507          0505  2
;  508          0506  2 RETURN;
;  509          0507  1 END;                                    ! End of REPLY_CLM_HANDLER


                                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

68  63  74  61  6D  73  69  6D  20  78  5F  5F  4D  4C  43  00000 P.AAB:  .ASCII  \CLM__x mismatch\<0>                    ;
                                                        00  0000F                                                       ;
                                                  010E000F  00010 P.AAA:  .LONG   17694735                              ;
                                                  00000000' 00014         .ADDRESS P.AAB                                ;
20  72  6F  74  61  72  65  70  6F  20  79  6C  70  65  72  00018 P.AAD:  .ASCII  \reply operator not found\              ;
```

```
                                64 6E 75 6F 66 20 74 6F 6E  00027
                                                010E0018   00030 P.AAC:  .LONG   17694744                                                    ;
                                                00000000'  00034         .ADDRESS P.AAD                                                     ;
6E 20 74 73 65 75 71 65 72 20 79 6C 70 65 72    00038 P.AAF:  .ASCII  \reply request not found\<0>                                         ;
                                00 64 6E 75 6F 66 20 74 6F  00047                                                                          ;
                                                010E0017   00050 P.AAE:  .LONG   17694743                                                    ;
                                                00000000'  00054         .ADDRESS P.AAF                                                     ;
74 61 74 73 20 64 65 74 63 65 70 78 65 6E 75    00058 P.AAH:  .ASCII  \unexpected status for reply\<0>                                     ;
      00 79 6C 70 65 72 20 72 6F 66 20 73 75    00067                                                                                      ;
                                                010E001B   00074 P.AAG:  .LONG   17694747                                                    ;
                                                00000000'  00078         .ADDRESS P.AAH                                                     ;
79 6C 70 65 72 20 6E 6F 20 42 43 4D 20 6F 6E    0007C P.AAJ:  .ASCII  \no MCB on reply message\<0>                                         ;
                                00 65 67 61 73 73 65 6D 20  0008B                                                                          ;
                                                010E0017   00094 P.AAI:  .LONG   17694743                                                    ;
                                                00000000'  00098         .ADDRESS P.AAJ                                                     ;

                                                                         .EXTRN  ASCID_INVALIDRQCB

                                                                         .PSECT  $CODE$,NOWRT,2

                                                007C 00000               .ENTRY  REPLY_CLM_HANDLER, Save R2,R3,R4,R5,R6                    ; 0347
                            56      0000G   CF   9E 00002               MOVAB   DUMP_LOG_FILE, R6                                          ;
                            5E              08   C2 00007               SUBL2   #8, SP                                                     ;
                            52        08    AC   D0 0000A               MOVL    CLM, R2                                                    ; 0400
                            02        02    A2   91 0000E               CMPB    2(R2), #2                                                  ;
                                            06   13 00012               BEQL    1$                                                         ;
                                    0000'   CF   9F 00014               PUSHAB  P.AAA                                                      ; 0402
                                            10   11 00018               BRB     2$                                                         ;
                                    4004    8F   BB 0001A 1$:           PUSHR   #^M<R2,SP>                                                 ; 0406
                    0000G   CF              02   FB 0001E               CALLS   #2, CLUSMSG_CONV_CLM_RQCB                                  ;
                            0B              50   E8 00023               BLBS    R0, 3$                                                     ;
                                    0000G   CF   9F 00026               PUSHAB  ASCID_INVALIDRQCB                                          ; 0408
                                      04    AC   DD 0002A 2$:           PUSHL   BUFFER_DESC                                                ;
                                    66              02   FB 0002D       CALLS   #2, DUMP_LOG_FILE                                          ;
                                                    04   00030         RET                                                                ;
                                      04    AE   9F 00031 3$:           PUSHAB  OPER_RQCB                                                  ; 0414
                                    53      04    AE   D0 00034         MOVL    RQCB, R3                                                   ;
                                                  53   DD 00038         PUSHL   R3                                                         ;
                    0000G   CF              02   FB 0003A               CALLS   #2, FIND_OPERATOR                                          ;
                            06              50   E8 0003F               BLBS    R0, 4$                                                     ;
                                    0000'   CF   9F 00042               PUSHAB  P.AAC                                                      ; 0417
                                            42   11 00046               BRB     8$                                                         ;
                                    50      04    AE   D0 00048 4$:     MOVL    OPER_RQCB, R0                                              ; 0426
                                    54      24    A0   D0 0004C         MOVL    36(R0), OCD                                                ;
                                    52      3C    A4   D0 00050         MOVL    60(OCD), RQST                                              ; 0427
                                    50      3C    A4   9E 00054 5$:     MOVAB   60(OCD), R0                                                ; 0428
                                    50              52   D1 00058         CMPL    RQST, R0                                                   ;
                                                    20   13 0005B         BEQL    7$                                                         ;
                                      70    A2      64   A3 D1 0005D     CMPL    100(R3), 112(RQST)                                         ; 0430
                                                    05   13 00062         BEQL    6$                                                         ;
                                    52              62   D0 00064         MOVL    (RQST), RQST                                               ; 0432
                                                    EB   11 00067         BRB     5$                                                         ;
                                    55      6C    A2   D0 00069 6$:     MOVL    108(RQST), MCB                                             ; 0440
                                      6C    A2      6C   A3 D0 0006D     MOVL    108(R3), 108(RQST)                                         ; 0441
                                                  52   DD 00072         PUSHL   RQST                                                       ; 0442
                    0000G   CF              01   FB 00074               CALLS   #1, SEND_REPLY                                             ;
                      6C    A2              55   D0 00079               MOVL    MCB, 108(RQST)                                             ; 0443
```

```
                     50      3C    A4  9E 0007D 7$:     MOVAB   60(OCD), R0                        ; 0450
                     50            52  D1 00081         CMPL    RQST, R0
                                   0F  12 00084         BNEQ    9$
                           0000'   CF  9F 00086         PUSHAB  P.AAE                             ; 0453
                             04    AC  DD 0008A 8$:     PUSHL   BUFFER_DESC
                     66            02  FB 0008D         CALLS   #2, DUMP_LOG_FILE
                                   53  DD 00090         PUSHL   R3                                ; 0454
                                0086   31 00092         BRW     16$
                     55      6C    A3  D0 00095 9$:     MOVL    108(R3), MCB                      ; 0460
                                   74  13 00099         BEQL    13$
                     50      2C    A5  D0 0009B         MOVL    44(MCB), R0                       ; 0463
              00058021       8F    50  D1 0009F         CMPL    R0, #360481                       ; 0465
                                   0E  12 000A6         BNEQ    10$
                  5C   A3    5C    A2  7D 000A8         MOVQ    92(RQST), 92(R3)                  ; 0470
                                   53  DD 000AD         PUSHL   R3                                ; 0472
                0000G  CF          01  FB 000AF         CALLS   #1, LOG_MESSAGE
                                   63  11 000B4         BRB     15$                               ; 0463
              0005801C       8F    50  D1 000B6 10$:    CMPL    R0, #360476                       ; 0475
                                   24  13 000BD         BEQL    11$
              00058029       8F    50  D1 000BF         CMPL    R0, #360489
                                   1B  13 000C6         BEQL    11$
              00058084       8F    50  D1 000C8         CMPL    R0, #360580
                                   12  13 000CF         BEQL    11$
              000581D3       8F    50  D1 000D1         CMPL    R0, #360915
                                   09  13 000D8         BEQL    11$
              000581E3       8F    50  D1 000DA         CMPL    R0, #360931
                                   26  12 000E1         BNEQ    12$
                  5C   A3    5C    A2  7D 000E3 11$:    MOVQ    92(RQST), 92(R3)                  ; 0486
                     52            62  0F 000E8         REMQUE  (RQST), RQST                      ; 0488
                     54      24    A2  D0 000EB         MOVL    36(RQST), OCD                     ; 0489
                             3A    A4  B7 000EF         DECW    58(OCD)                           ; 0490
                                   52  DD 000F2         PUSHL   RQST                              ; 0491
                0000G  CF          01  FB 000F4         CALLS   #1, DEALLOCATE_RQCB
                                   6E  DD 000F9         PUSHL   RQCB                              ; 0492
                0000G  CF          01  FB 000FB         CALLS   #1, LOG_MESSAGE
                                   6E  DD 00100         PUSHL   RQCB                              ; 0493
                0000G  CF          01  FB 00102         CALLS   #1, NOTIFY_LISTED_OPERATORS
                                   10  11 00107         BRB     15$                               ; 0463
                           0000'   CF  9F 00109 12$:    PUSHAB  P.AAG                             ; 0495
                                   04  11 0010D         BRB     14$
                           0000'   CF  9F 0010F 13$:    PUSHAB  P.AAI                             ; 0502
                             04    AC  DD 00113 14$:    PUSHL   BUFFER_DESC
                     66            02  FB 00116         CALLS   #2, DUMP_LOG_FILE
                                   6E  DD 00119 15$:    PUSHL   RQCB                              ; 0504
                0000G  CF          01  FB 0011B 16$:    CALLS   #1, DEALLOCATE_RQCB
                                       04 00120         RET                                       ; 0507

; Routine Size:  289 bytes,    Routine Base:  $CODE$ + 0214
```

```
;  511          0508  1 END                                  ! End of OPCOMRPLY
;  512          0509  0 ELUDOM
```

```
;                                  PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $CODE$                         821  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                         156  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
;                                Library Statistics
;                                          --------  Symbols  --------      Pages       Processing
;       File                               Total     Loaded    Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1           18619         14          0        1000        00:01.9
;  _$255$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1     633         31          4          43        00:01.0
```

```
;                                  COMMAND QUALIFIERS

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

; Size:          821 code + 156 data bytes
; Run Time:          00:17.5
; Elapsed Time:      00:46.5
; Lines/CPU Min:      1741
; Lexemes/CPU-Min:  15075
; Memory Used:   168 pages
; Compilation Complete
```

LOGFILE
LIS

OPCOMDEF
LIS

OPCOMDATA
LIS

OPCOMINI
LIS

OPCOMUTIL
LIS

OPCOMLIB
LIS

OPCDEFTMP
LIS

OPCOMMAIN
LIS

OPCOMOLD
LIS

OPCOMRPLY
LIS

OPCCRASH
LIS

OPERUTIL
LIS

OPCOMROST
LIS