```
SSSSSSSSSSS  YYY       YYY   SSSSSSSSSSS  LLL              000000000        AAAAAAAAA
SSSSSSSSSSS  YYY       YYY   SSSSSSSSSSS  LLL              000000000        AAAAAAAAA
SSSSSSSSSSS  YYY       YYY   SSSSSSSSSSS  LLL              000000000        AAAAAAAAAA
SSS          YYY       YYY   SSS          LLL           000       000    AAA        AAA
SSS          YYY       YYY   SSS          LLL           000       000    AAA        AAA
SSS          YYY       YYY   SSS          LLL           000       000    AAA        AAA
SSS            YYY   YYY      SSS          LLL           000       000    AAA        AAA
SSS            YYY   YYY      SSS          LLL           000       000    AAA        AAA
SSS              YYY YYY      SSS          LLL           000       000    AAA        AAA
  SSSSSSSSS          YYY        SSSSSSSSS  LLL           000       000    AAA        AAA
  SSSSSSSSS          YYY        SSSSSSSSS  LLL           000       000    AAAAAAAAAAAAAAAA
  SSSSSSSSS          YYY        SSSSSSSSS  LLL           000       000    AAAAAAAAAAAAAAAA
           SSS       YYY                SSS  LLL         000       000    AAA        AAA
           SSS       YYY                SSS  LLL         000       000    AAAAAAAAAAAAAAAA
           SSS       YYY                SSS  LLL         000       000    AAA        AAA
           SSS       YYY                SSS  LLL         000       000    AAA        AAA
           SSS       YYY                SSS  LLL         000       000    AAA        AAA
           SSS       YYY                SSS  LLL         000       000    AAA        AAA
SSSSSSSSSSS          YYY     SSSSSSSSSSS  LLLLLLLLLLLLLL   000000000     AAA        AAA
SSSSSSSSSSS          YYY     SSSSSSSSSSS  LLLLLLLLLLLLLL   000000000     AAA        AAA
SSSSSSSSSSS          YYY     SSSSSSSSSSS  LLLLLLLLLLLLLL   000000000     AAA        AAA
```

```
CCCCCCC    SSSSSSSS  PPPPPPP      000000    PPPPPPPP   CCCCCCC    000000   MM       MM
CCCCCCCC   SSSSSSSS  PPPPPPP      000000    PPPPPPPP   CCCCCCCC   000000   MM       MM
CC         SS        PP    PP    00    00   PP    PP   CC        00    00  MMMM   MMMM
CC         SS        PP    PP    00    00   PP    PP   CC        00    00  MMMM   MMMM
CC         SS        PP    PP    00    00   PP    PP   CC        00    00  MM MM  MM MM
CC         SS        PP    PP    00    00   PP    PP   CC        00    00  MM  MM MM
CC         SSSSSS    PPPPPPP     00    00   PPPPPPPP   CC        00    00  MM     MM
CC         SSSSSS    PPPPPPP     00    00   PPPPPPPP   CC        00    00  MM     MM
CC              SS   PP          00    00   PP         CC        00    00  MM     MM
CC              SS   PP          00    00   PP         CC        00    00  MM     MM
CC              SS   PP          00    00   PP         CC        00    00  MM     MM   ....
CC              SS   PP          00    00   PP         CC        00    00  MM     MM   ....
CCCCCCCC   SSSSSSSS  PP           000000    PP         CCCCCCCC   000000   MM     MM   ....
CCCCCCCC   SSSSSSSS  PP           000000    PP         CCCCCCCC   000000   MM     MM   ....

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

```
    1    0001   0  MODULE   CSPOPCOM
    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.            *
   10    0010   0  !*   ALL RIGHTS RESERVED.                                             *
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   13    0013   0  !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH LICENSE  AND WITH THE   *
   14    0014   0  !*   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
   15    0015   0  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
   16    0016   0  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
   17    0017   0  !*   TRANSFERRED.                                                     *
   18    0018   0  !*                                                                    *
   19    0019   0  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
   20    0020   0  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
   21    0021   0  !*   CORPORATION.                                                     *
   22    0022   0  !*                                                                    *
   23    0023   0  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
   24    0024   0  !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.          *
   25    0025   0  !*                                                                    *
   26    0026   0  !*                                                                    *
   27    0027   0  !**********************************************************************
   28    0028   0
   29    0029   0  !++
   30    0030   0  ! FACILITY:      OPCOM,CSP
   31    0031   0  !
   32    0032   0  ! ABSTRACT:      This module contains the cluster server action routine for
   33    0033   0  !                OPCOM.
   34    0034   0  !
   35    0035   0  ! Environment:  Full process context.
   36    0036   0  !
   37    0037   0  ! Author:        CW Hobbs
   38    0038   0  !
   39    0039   0  ! Creation date:        14 July 1983
   40    0040   0  !
   41    0041   0  ! Revision history:
   42    0042   0  !
   43    0043   0  !     V03-002 ADE0002          Alan D. Eldridge        28-Feb-1984
   44    0044   0  !                 Change CSP$OPCOM_ACTION to CSP$OPCOM.
   45    0045   0  !
   46    0046   0  !     V03-001 ADE0001          Alan D. Eldridge        4-Feb-1984
   47    0047   0  !                 General cleanup.
   48    0048   0  !
   49    0049   0  !
   50    0050   0  !--
   51    0051   0
   52    0052   1  BEGIN                                         ! Start of CSPOPCOM
   53    0053   1
   54    0054   1  LIBRARY 'SYS$LIBRARY:LIB.L32';
   55    0055   1  REQUIRE 'LIB$:CSPDEF';
   56    0249   1
   57    0250   1  LINKAGE
```

```
;   58        0251  1           JSB_2   = JSB (REGISTER=2);
;   59        0252  1
;   60        0253  1 FORWARD ROUTINE
;   61        0254  1           CSP$OPCOM                      : JSB_2;
```

CSPOPCOM
V04-000
CSP$OPCOM (CSD)
E 6
16-Sep-1984 01:15:24   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:18:03   [SYSLOA.SRC]CSPOPCOM.B32;1
Page 3
(2)

```
  63   0255  1  %SBTTL 'CSP$OPCOM (CSD)'
  64   0256  1  GLOBAL ROUTINE CSP$OPCOM
  65   0257  1                  (CSD : REF BLOCK [,BYTE]) : JSB_2 =
  66   0258  1
  67   0259  1  !++
  68   0260  1  !
  69   0261  1  !   Action routine for an inbound message from OPCOM on another node.  Simply
  70   0262  1  !   pass the message on to OPCOM on the local node.
  71   0263  1  !
  72   0264  1  !   Input:
  73   0265  1  !
  74   0266  1  !       CSD -   Pointer to the address of the received CSD
  75   0267  1  !
  76   0268  1  !   Implicit Input:
  77   0269  1  !
  78   0270  1  !       None.
  79   0271  1  !
  80   0272  1  !   Output:
  81   0273  1  !
  82   0274  1  !       None.
  83   0275  1  !
  84   0276  1  !   Implict output:
  85   0277  1  !
  86   0278  1  !       None.
  87   0279  1  !
  88   0280  1  !   Side effects:
  89   0281  1  !
  90   0282  1  !       The message will be written to the operator's mailbox.
  91   0283  1  !
  92   0284  1  !   Routine value:
  93   0285  1  !
  94   0286  1  !       None.
  95   0287  1  !--
  96   0288  2  BEGIN                                             ! Start of CSP$OPCOM
  97   0289  2  LOCAL
  98   0290  2      DESC : VECTOR [2, LONG],                       ! String descriptor for the message
  99   0291  2      STATUS ;
 100   0292  2
 101   0293  2  !
 102   0294  2  !   Initialize the local string descriptor
 103   0295  2  !
 104   0296  2  DESC [0] = .CSD [CSD$L_SENDLEN] ;                 ! Stuff length of message
 105   0297  2  DESC [1] = .CSD [CSD$L_SENDOFF] ;                 ! Stuff address of message
 106   0298  2
 107   0299  2  !
 108   0300  2  !   Send the message to the local operator
 109   0301  2  !
 110   0302  2  STATUS = $SNDOPR (MSGBUF=DESC) ;
 111   0303  2
 112   0304  2  RETURN .STATUS ;
 113   0305  1  END ;                                             ! End of CSP$OPCOM


                                                    .TITLE  CSPOPCOM
                                                    .IDENT  \V04-000\

                                                    .EXTRN  SYS$SNDOPR
```

```
                                           .PSECT  $CODE$,NOWRT,2

                        5E           04  C2 00000 CSP$OPCOM::
                                                           SUBL2   #4, SP                          : 0256
                                  12  A2 DD 00003           PUSHL   18(CSD)                         : 0296
                   04   AE        16  A2 D0 00006           MOVL    22(CSD), DESC+4                 : 0297
                                  7E  D4 0000B              CLRL    -(SP)                           : 0302
                                  04  AE 9F 0000D           PUSHAB  DESC
        00000000G  00             02  FB 00010           CALLS   #2, SYS$SNDOPR
                        5E        08  C0 00017           ADDL2   #8, SP                          : 0305
                                  05 0001A               RSB
```

; Routine Size: 27 bytes,   Routine Base: $CODE$ + 0000

```
:  114        0306 1
:  115        0307 1
:  116        0308 1 END                                      ! End of CSPOPCOM
:  117        0309 0 ELUDOM
```

:
:   PSECT SUMMARY
:
:   Name   Bytes   Attributes
:
: $CODE$ 27 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

:   Library Statistics
:
:   -------- Symbols --------   Pages   Processing
:   File   Total   Loaded   Percent   Mapped   Time
:
: _255DUA28:[SYSLIB]LIB.L32;1   18619   3   0   1000   00:01.4

:   COMMAND QUALIFIERS

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

: Size: 27 code + 0 data bytes
: Run Time: 00:03.5
: Elapsed Time: 00:18.0
: Lines/CPU Min: 5267
: Lexemes/CPU-Min: 33170

; Memory Used: 66 pages
; Compilation Complete

CSPOPCOM
LIS

CSPWAIT
LIS

CSPRCPCAC
LIS

CSPCJFRES
LIS

CSPQUORUM
LIS

DISTRLKI
LIS

CSPMOUNT
LIS

CSPVECTOR
LIS

CSPCLIENT
LIS

DSTRLOCK
LIS

DSTRLOCK
LIS