

[illegible]

[illegible]

(2) 67

'EXE\$CSP_BRKTHRU - Send Break-thru message throughout cluster'

.....
~~~~~

```
0000 1      .TITLE  CSPCLIENT      - Client jacket routine calls to CSP
0000 2      .IDENT  'V04-000'
0000 3
0000 4      *****
0000 5      *
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0000 23     *
0000 24     *
0000 25     *****
0000 26
0000 27     ++
0000 28
0000 29     FACILITY:      VMS
0000 30
0000 31     ABSTRACT:      Various "clients" are placed here for loading with CLUSTERLOA.
0000 32
0000 33     AUTHOR:        Jake VanNoy
0000 34
0000 35     DATE:          27-May-1983
0000 36
0000 37     REVISION HISTORY:
0000 38
0000 39     V03-003 ADE0001      Alan D. Eldridge      4-Feb-1984
0000 40     Convert to use EXE$CSP_BRDCST.
0000 41
0000 42     V03-002 JLV0306      Jake VanNoy      29-AUG-1983
0000 43     Check error status and deallocate CSD if failure.
0000 44
0000 45     V03-001 JLV0284      Jake VanNoy      28-JUL-1983
0000 46     Minor changes to allow cluster writes.
0000 47
0000 48     --
0000 49
0000 50     :
0000 51     : Symbols
0000 52     :
0000 53     :
0000 54     $BRKTDEF
0000 55     $CSDDEF
0000 56     $DYNDEF
0000 57
```

CSPCLIENT  
V04-000

- Client jacket routine calls to CSP<sup>D 4</sup>

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5-SEP-1984 04:08:43 [SYSLOA.SRC]CSPCLIENT.MAR;1

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|          |    |    |                                   |
|----------|----|----|-----------------------------------|
| 0000     | 58 | :  |                                   |
| 0000     | 59 | :: | Local data                        |
| 0000     | 60 | :  |                                   |
| 0000     | 61 | :  |                                   |
| 00000000 | 62 |    | .PSECT \$\$\$190 ; Read Only Data |
| 0000     | 63 |    |                                   |
| 0000     | 64 |    |                                   |
| 00000000 | 65 |    | .PSECT \$\$\$200 ; Code           |

CSPM  
V04-

: Ro

```
0000 67 .SBTTL 'EXESCSP_BRKTHRU - Send Break-thru message throughout cluster'
0000 68 ++
0000 69
0000 70
0000 71 CALLING SEQUENCE: JSB EXESCSP_BRKTHRU at IPL 0
0000 72
0000 73 INPUT PARAMETERS: R6 Address of BRK structure
0000 74
0000 75 OUTPUT PARAMETERS: R0,R1 Garbage
0000 76
0000 77 All registers are preserved except R0,R1.
0000 78
0000 79 COMPLETION CODES: R0 completion status:
0000 80 SSS_NORMAL = normal success
0000 81 SSS_... = various error codes
0000 82
0000 83 --
0000 84 EXESCSP_BRKTHRU::
0000 85
0000 86 Get a CSD.
0000 87
0000 88
51 57 57 008C C6 3C 0000 89 MOVZWL BRK$W_MSGLEN(R6),R7 ; Message length
0000 90 ADDL3 #CSD$AB_DATA - ; Add to CSD header
0000 91 +CSD$T_BRK_MSGBUF,R7,R1
0000 92 JSB G^EXE$ALLOC_CSD ; Allocate and init a CSD
0000 93 BLBC R0,200$ ; If LBC, return error
0000 94
0000 95
0000 96 Init private portion of CSD
0000 97
0000 98
0000 99 ASSUME CSD$L_RECVOFF EQ 4+CSD$L_RECVLEN
0000 100
0000 101 CLRQ CSD$L_RECVLEN(R2) ; No return data this trip
0000 102 CLRL CSD$A_ASTADR(R2) ; No AST needed -- return will
0000 103 ; therefore be synchronous
0000 104 MOVB S^#EXESC_SYSEFN,CSD$B_EFN(R2) ; Legal event flag
0000 105 MNEGL #1,CSD$L_CSID(R2) ; Use ALL BUT 'my' node
0000 106 MOVAB CSD$AB_DATA(R2),R8 ; Get ptr to private data area
0000 107 SUBL3 R2,R8,CSD$L_SENDOFF(R2) ; Fill in the xmt data offset
0000 108 ADDL3 #CSD$T_BRK_MSGBUF,R7,- ; Fill in the xmt data length
0000 109 CSD$L_SENLEN(R2)
0000 110 MOVW #CSD$K_BRKTHRU,CSD$W_CODE(R2) ; Client code
0000 111
0000 112
0000 113 Copy in BRKTHRU specific protocol
0000 114
0000 115
0000 116 ASSUME CSD$L_BRK_FLAGS EQ 4+CSD$L_BRK_CARCON
0000 117 ASSUME CSD$T_BRK_SENTO EQ 4+CSD$L_BRK_FLAGS
0000 118 ASSUME CSD$W_BRK_SNDTYP EQ CSD$T_BRK_SENTO+BRK$S_SENDNAME
0000 119 ASSUME CSD$W_BRK_REQID EQ 2+CSD$W_BRK_SNDTYP
0000 120 ASSUME CSD$W_BRK_TIMEOUT EQ 2+CSD$W_BRK_REQID
0000 121 ASSUME CSD$W_BRK_MSGLEN EQ 2+CSD$W_BRK_TIMEOUT
0000 122 ASSUME CSD$T_BRK_MSGBUF EQ 2+CSD$W_BRK_MSGLEN
0000 123
```

51 57 57 008C C6 3C 0000 89  
0000 90  
0000 91  
0000 92  
0000 93  
0000 94  
0000 95  
0000 96  
0000 97  
0000 98  
0000 99  
0000 100  
0000 101  
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0000 119  
0000 120  
0000 121  
0000 122  
0000 123

1A A2 7C 0016 101  
22 A2 D4 0019 102  
33 A2 00' 90 001C 103  
0E A2 01 CE 0020 104  
58 52 A2 9E 0024 105  
16 A2 58 52 C3 0028 106  
12 A2 57 20 C1 002D 107  
0C A2 02 B0 0032 108

```

      52 DD 0036 124 PUSHL R2 ; Save address of CSD
      53 58 DD 0038 125 ;
      83 34 A6 DD 0038 126 ; First address
      83 38 A6 DD 003B 127 ; carriage control
      10 28 0043 128 ; Flags
      63 3C A6 0045 129 ;
      83 4C A6 B0 0048 130 ; Copy in send to string
      83 50 A6 B0 004C 131 ; Send type
      83 4E A6 B0 0050 132 ; Requestor ID (low word)
      83 57 B0 0054 133 ; Time out in seconds
63 008E C6 57 28 0057 134 ; Copy length
      005D 135 ; and message data
      52 8ED0 005D 136 ;
      0060 137 ; Get address of CSD
      0060 138 ;
      0060 139 ;
      0060 140 ;
      0060 141 ;
      0060 142 ;
      0060 143 ;
      0060 144 ;
      0060 145 ;
      0060 146 ;
      0060 147 ;
      0060 148 ;
      0060 149 ;
      0060 150 ;
      0060 151 ;
00000000'GF 16 0060 152 JSB G^EXE$CSP_BRDCST ; Send message out to world
      50 DD 0066 153 PUSHL R0 ; Save status
      50 52 DD 0068 154 ;
00000000'GF 16 0068 155 MOVL R2,R0 ; Input to deallocate routine
      0071 156 JSB G^EXE$DEALLOC_CSD ; Done with it.
      50 8ED0 0071 157 ;
      05 0074 158 POPL R0 ; Recover status
      0075 159 200$: RSB ; Done
      0075 160 ;
      0075 161 ;
      0075 162 .END
```

CSPCLIENT  
Symbol table

- Client jacket routine calls to CSP<sup>G 4</sup>

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[SYSLOA.SRC]CSPCLIENT.MAR;1

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```
BRK$$_CARCON      = 00000034
BRK$$_FLAGS       = 00000038
BRK$$_REQID       = 00000050
BRK$$_SENDNAME    = 00000010
BRK$$_MSGBUF      = 0000008E
BRK$$_SENDNAME    = 0000003C
BRK$$_MSGLEN      = 0000008C
BRK$$_SECONDS     = 0000004E
BRK$$_SENDTYPE    = 0000004C
CSD$$_AB_DATA     = 00000052
CSD$$_ASTADR      = 00000022
CSD$$_EFN         = 00000033
CSD$$_BRKTHRU     = 00000002
CSD$$_BRK_CARCON  = 00000000
CSD$$_BRK_FLAGS   = 00000004
CSD$$_CSID        = 0000000E
CSD$$_RECVLEN     = 0000001A
CSD$$_RECVOFF     = 0000001E
CSD$$_SENDLEN     = 00000012
CSD$$_SENDOFF     = 00000016
CSD$$_BRK_SENDTO  = 00000010
CSD$$_BRK_MSGBUF  = 00000020
CSD$$_BRK_SENDTO  = 00000008
CSD$$_BRK_MSGLEN  = 0000001E
CSD$$_BRK_REQID   = 0000001A
CSD$$_BRK_SNDTYP  = 00000018
CSD$$_BRK_TIMEOUT = 0000001C
CSD$$_CODE        = 0000000C
EXES$$_ALLOC_CSD  ***** X 03
EXES$$_BRDCST     ***** X 03
EXES$$_BRKTHRU    00000000 RG 03
EXES$$_SYSEFN     ***** X 03
EXES$$_DEALLOC_CSD ***** X 03
```

+-----+  
! Psect synopsis !  
+-----+

| PSECT name | Allocation       | PSECT No. | Attributes                                              |
|------------|------------------|-----------|---------------------------------------------------------|
| . ABS .    | 00000000 ( 0.)   | 00 ( 0.)  | NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE |
| \$AB\$\$   | 00000000 ( 0.)   | 01 ( 1.)  | NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE       |
| \$\$\$190  | 00000000 ( 0.)   | 02 ( 2.)  | NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE       |
| \$\$\$200  | 00000075 ( 117.) | 03 ( 3.)  | NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE       |

+-----+  
! Performance indicators !  
+-----+

| Phase               | Page faults | CPU Time    | Elapsed Time |
|---------------------|-------------|-------------|--------------|
| Initialization      | 29          | 00:00:00.06 | 00:00:01.22  |
| Command processing  | 112         | 00:00:00.40 | 00:00:01.85  |
| Pass 1              | 187         | 00:00:02.15 | 00:00:08.67  |
| Symbol table sort   | 0           | 00:00:00.25 | 00:00:01.62  |
| Pass 2              | 47          | 00:00:00.46 | 00:00:02.74  |
| Symbol table output | 5           | 00:00:00.03 | 00:00:00.03  |

CSPCLIENT  
VAX-11 Macro Run Statistics

- Client jacket routine calls to CSP<sup>H 4</sup>

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|                        |     |             |             |
|------------------------|-----|-------------|-------------|
| Psect synopsis output  | 2   | 00:00:00.02 | 00:00:00.02 |
| Cross-reference output | 0   | 00:00:00.00 | 00:00:00.00 |
| Assembler run totals   | 384 | 00:00:03.37 | 00:00:16.15 |

The working set limit was 1050 pages.

16376 bytes (32 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 295 non-local and 1 local symbols.

162 source lines were read in Pass 1, producing 15 object records in Pass 2.

11 pages of virtual memory were used to define 10 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name

Macros defined

-----  
\_ \$255\$DUA28:[SYSLOA.OBJ]CLUSTER.MLB;1  
- \$255\$DUA28:[SYS.OBJ]LIB.MLB;1  
- \$255\$DUA28:[SYSLIB]STARLET.MLB;2  
TOTALS (all libraries)

-----  
1  
2  
4  
7

363 GETS were required to define 7 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:CSPCLIENT/OBJ=OBJ\$:CSPCLIENT MSRC\$:CSPCLIENT/UPDATE=(ENH\$:CSPCLIENT)+EXECML\$/LIB+LIB\$:CLUSTER/LIB

0394 AH-BT13A-SE  
VAX/VMS V4.0

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