


```

CCCCCCCC  SSSSSSSS  PPPPPPPP  RRRRRRRR  CCCCCCCC  PPPPPPPP  CCCCCCCC  AAAAAA  CCCCCCCC
CCCCCCCC  SSSSSSSS  PPPPPPPP  RRRRRRRR  CCCCCCCC  PPPPPPPP  CCCCCCCC  AAAAAA  CCCCCCCC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CC         SS        PP        PP  RR        RR  CC         PP        PP  CC         CC
CCCCCCCC  SSSSSSSS  PP        PP  RR        RR  CCCCCCCC  AA        AA  CCCCCCCC
CCCCCCCC  SSSSSSSS  PP        PP  RR        RR  CCCCCCCC  AA        AA  CCCCCCCC

```

```

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
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

```
1 0001 0 MODULE CSPRCPCAC
2 0002 0 (IDENT = 'V04-000'
3 0003 0 .LANGUAGE (BLISS32)
4 0004 0 ) ADDRESSING_MODE (EXTERNAL = GENERAL)
5 0005 0 } =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1 ++
31 0031 1
32 0032 1 FACILITY: Cluster Server Process
33 0033 1
34 0034 1 ABSTRACT: Action routine for Recovery Control Process control functions
35 0035 1
36 0036 1 AUTHOR: Paul R. Beck
37 0037 1
38 0038 1 DATE: 9-JUN-1983 Last Edit: 29-JUL-1983 17:59:54
39 0039 1
40 0040 1 REVISION HISTORY:
41 0041 1
42 0042 1 V03-003 ADE001 Alan D. Eldridge 10-Feb-1984
43 0043 1 Rename module
44 0044 1
45 0045 1 V03-002 PRB0233 Paul Beck 29-JUL-1983 17:59
46 0046 1 Renamed to CSPRCPCAC.B32 (9 char!) Also, get CSPDEF from LIB$.
47 0047 1
48 0048 1 V03-001 PRB0215 Paul Beck 26-JUN-1983 21:10
49 0049 1 Get CSPDEF from SHRLIB.
50 0050 1 --
```

```
.. 52      0051 1 | Require files:
.. 53      0052 1 |
.. 54      0053 1 | LIBRARY
.. 55      0054 1 | 'SYS$LIBRARY:LIB';           ! define system services
.. 56      0055 1 | REQUIRE
.. 57      0056 1 | 'LIBS:CSPDEF';             ! define CSD offsets
.. 58      0250 1 | LINKAGE
.. 59      0251 1 |     JSB_2      = JSB (REGISTER=2);
.. 60      0252 1 | +
.. 61      0253 1 | | External references
.. 62      0254 1 | |
.. 63      0255 1 | EXTERNAL
.. 64      0256 1 |     CSP$GL_CURCTX;         ! address of current context block
.. 65      0257 1 | EXTERNAL LITERAL
.. 66      0258 1 |     EXESC_SYSEFN;         ! system event flag
```

```

68 0259 1 XSBTTL 'CSP$RCPCACT - action routine for Recovery Control Process'
69 0260 1 ++
70 0261 1 CSP$RCPCACT
71 0262 1
72 0263 1 FUNCTIONAL DESCRIPTION:
73 0264 1 Action routine which runs in the context of the Cluster Server
74 0265 1 Process to receive RCP control blocks from other RCPs in the
75 0266 1 cluster and forward them to the local RCP through its input mailbox.
76 0267 1 CALLING SEQUENCE:
77 0268 1 JSB CSP$RCPCACT via CASE table
78 0269 1 FORMAL PARAMETERS:
79 0270 1 P1 (R2) = address of CSD received for RCPC action routine
80 0271 1 IMPLICIT PARAMETERS:
81 0272 1 CSD$SENDOFF = address of RCP control structure.
82 0273 1 COMPLETION CODES:
83 0274 1
84 0275 1 --
85 0276 1 GLOBAL ROUTINE CSP$RCPCACT ( CSD: REF BLOCK [,BYTE] ): JSB_2 =
86 0277 2 BEGIN
87 0278 2 LOCAL
88 0279 2 RCPC : REF BLOCK [,BYTE], : portion of CSD to fwd to RCP
89 0280 2 CHANNEL : WORD, : channel to RCP input mailbox
90 0281 2 IOSB : VECTOR [2, LONG], : local IOSB
91 0282 2 STATUS;
92 0283 2 EXTERNAL ROUTINE
93 0284 2 CSP$$WAIT, : common stall routine
94 0285 2 CSP$$RESUME; : common completion AST
95 0286 2
96 0287 2 STATUS = $ASSIGN ( DEVNAM = %ASCID 'JNL$RCP_INPUT', CHAN = CHANNEL );
97 0288 2 IF NOT .STATUS THEN RETURN .STATUS;
98 0289 2 RCPC = .CSD [CSD$SENDOFF];
99 0290 2 STATUS = $QIO ( CHAN = .CHANNEL,
100 P 0291 2 FUNC = IOS$WRITEVBLK,
101 P 0292 2 IOSB = IOSB,
102 P 0293 2 EFN = EXE$SYSEFN,
103 P 0294 2 ASTADR = CSP$$RESUME,
104 P 0295 2 ASTPRM = .CSP$GL_CURCTX,
105 P 0296 2 P1 = .RCPC,
106 0297 2 P2 = .RCPC [RRPSW_SIZE] );
107 0298 2
108 0299 2 Wait for I/O to complete. Allow other threads to run.
109 0300 2
110 0301 2 IF .STATUS THEN CSP$$WAIT();
111 0302 2
112 0303 2 That's all, folks.
113 0304 2
114 0305 2 RETURN $DASSGN ( CHAN = .CHANNEL );
115 0306 1 END;

```

```

.TITLE CSPRCPCAC
.IDENT \V04-000\
.PSECT SPLITS, NOWRT, NOEXE, 2

```

```

00 00 54 55 50 4E 49 5F 50 43 52 24 4C 4E 4A 0000 P.AAB: .ASCII \JNL$RCP_INPUT\<0><0><0>
00 000F

```

⋮

010E000D 00010 P.AAA: .LONG 17694733
00000000' 00014 .ADDRESS P.AAB

.EXTRN CSP\$GL CURCTX, EX\$C SYSEFN
.EXTRN CSP\$\$WAIT, CSP\$\$RESUME
.EXTRN SY\$\$ASSIGN, SY\$\$QIO
.EXTRN SY\$\$DASSGN

.PSECT \$CODE\$,NOWRT,2

5E		0C	C2	0000	CSP\$RCPCACT::		
		7E	7C	00003	SUBL2	#12, SP	0276
		AE	9F	00005	CLRQ	-(SP)	0287
	08	CF	9F	00008	PUSHAB	CHANNEL	
	00000'	04	FB	0000C	PUSHAB	P.AAA	
00000000G	00	50	E9	00013	CALLS	#4, SY\$\$ASSIGN	
	44	A2	DD	00016	BLBC	STATUS, 2\$	0288
	51	7E	7C	0001A	MOVL	22(CSD), RCPC	0289
		7E	7C	0001C	CLRQ	-(SP)	0297
	7E	A1	3C	0001E	CLRQ	-(SP)	
	08	51	DD	00022	MOVZWL	8(RCPC), -(SP)	
		00	DD	00024	PUSHL	RCPC	
	00000000G	00	DD	00024	PUSHL	CSP\$GL CURCTX	
	00000000G	00	9F	0002A	PUSHAB	CSP\$\$RESUME	
	24	AE	9F	00030	PUSHAB	IOSB	
		30	DD	00033	PUSHL	#48	
	7E	AE	3C	00035	MOVZWL	CHANNEL, -(SP)	
	00000000G	8F	DD	00039	PUSHL	#EX\$C SYSEFN	
00000000G	00	0C	FB	0003F	CALLS	#12, SY\$\$QIO	
	07	50	E9	00046	BLBC	STATUS, 1\$	0301
00000000G	00	00	FB	00049	CALLS	#0, CSP\$\$WAIT	
	7E	6E	3C	00050	MOVZWL	CHANNEL, -(SP)	0305
00000000G	00	01	FB	00053	CALLS	#1, SY\$\$DASSGN	
	5E	0C	C0	0005A	ADDL2	#12, SP	0306
		05	0005D	RSB			

; Routine Size: 94 bytes, Routine Base: \$CODE\$ + 0000

: 117
: 118
0307 1 END
0308 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	24	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	94	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	7	0	1000	00:01.4

COMMAND QUALIFIERS

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

: Size: 94 code + 24 data bytes
: Run Time: 00:04.4
: Elapsed Time: 00:22.3
: Lines/CPU Min: 4228
: Lexemes/CPU-Min: 36411
: Memory Used: 88 pages
: Compilation Complete

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

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LIS

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LIS

CSPCLIENT
LIS

DSTRLOCK
LIS

DSTRLOCK
LIS