





```

1 0001 0 MODULE SCHFCB (
2 0002 0
3 0003 0     LANGUAGE (BLISS32),
4 0004 0     IDENT = 'V04-000'
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     This routine searches the current volume's FCB list for the
38 0038 1     FCB representing the desired file number.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1     STARLET operating system, including privileged system services
43 0043 1     and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 13-Dec-1976 15:41
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1     A0101  ACG26369      Andrew C. Goldstein,    31-Dec-1979 17:05
53 0053 1     Fix multi-header file interlock bug
54 0054 1
55 0055 1     A0100  ACG00001     Andrew C. Goldstein, 10-Oct-1978 20:03
56 0056 1     Previous revision history moved to F11A.REV
57 0057 1 **

```

SCHFCB  
V04-000

F 15  
16-Sep-1984 01:17:40  
14-Sep-1984 12:29:51

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11A.SRC]SCHFCB.B32;1 Page 2 (1)

```

: 58
: 59
: 60
: 61
0058 1
0059 1
0060 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
0061 1 REQUIRE 'SRC$FCPDEF.B32';
```

SP  
VC

.....

```
63 0376 1 GLOBAL ROUTINE SEARCH_FCB (FILE_ID) =
64 0377 1
65 0378 1 !++
66 0379 1
67 0380 1 FUNCTIONAL DESCRIPTION:
68 0381 1
69 0382 1 This routine searches the current volume's FCB list for the
70 0383 1 FCB representing the desired file number.
71 0384 1
72 0385 1
73 0386 1 CALLING SEQUENCE:
74 0387 1 SEARCH_FCB (ARG1)
75 0388 1
76 0389 1 INPUT PARAMETERS:
77 0390 1 ARG1: address of desired file ID
78 0391 1
79 0392 1 IMPLICIT INPUTS:
80 0393 1 CURRENT_VCB: VCB address of volume
81 0394 1
82 0395 1 OUTPUT PARAMETERS:
83 0396 1 NONE
84 0397 1
85 0398 1 IMPLICIT OUTPUTS:
86 0399 1 NONE
87 0400 1
88 0401 1 ROUTINE VALUE:
89 0402 1 FCB address if found
90 0403 1 zero if not
91 0404 1
92 0405 1 SIDE EFFECTS:
93 0406 1 NONE
94 0407 1
95 0408 1 --
96 0409 1
97 0410 2 BEGIN
98 0411 2
99 0412 2 MAP
100 0413 2 FILE_ID : REF BBLOCK; ! file ID arg
101 0414 2
102 0415 2 LOCAL
103 0416 2 FCB : REF BBLOCK, ! current FCB being looked at
104 0417 2 PREV_FCB : REF BBLOCK; ! previous FCB in list
105 0418 2
106 0419 2 EXTERNAL
107 0420 2 CURRENT_VCB : REF BBLOCK; ! VCB of volume in process
108 0421 2
109 0422 2 ! Init the pointers and start scanning the FCB list, which is a double
110 0423 2 ! linked list. Check for consistency of pointers and the block ID for each
111 0424 2 ! FCB. We win when the FCB containing the desired file number is found;
112 0425 2 ! we lose at end of list (pointing back to the VCB).
113 0426 2
114 0427 2
115 0428 2 PREV_FCB = .CURRENT_VCB;
116 0429 2 FCB = .CURRENT_VCB[VCB$LCBFL];
117 0430 2
118 0431 2 IF
119 0432 3 BEGIN
```

```

: 120 0433 3 UNTIL .FCB EQL .CURRENT_VCB DO
: 121 0434 4 BEGIN
: 122 0435 4 IF .FCB[FCB$B_TYPE] EQL DYN$C_FCB
: 123 0436 4 AND .FCB[FCB$C_FCBBL] EQL .PREV_FCB
: 124 0437 4 THEN
: 125 0438 5 BEGIN
: 126 0439 5 IF .FILE_ID[FID$W_NUM] EQL .FCB[FCB$W_FID_NUM]
: 127 0440 5 THEN EXIT[COOP .FCB;
: 128 0441 5
: 129 0442 5 PREV_FCB = .FCB; ! Link to next FCB
: 130 0443 5 FCB = .FCB[FCB$L_FCBFL];
: 131 0444 5 END
: 132 0445 4 ELSE
: 133 0446 4 BUG_CHECK (NOTFCBFCB, FATAL, 'FCB linkage broken');
: 134 0447 4 END ! end of loop
: 135 0448 3 END
: 136 0449 3
: 137 0450 2 EQL -1
: 138 0451 2 THEN 0 ! return 0 if loop failed
: 139 0452 2 ELSE .FCB ! else FCB address
: 140 0453 2
: 141 0454 1 END; ! end of routine SEARCH_FCB

```

```

.TITLE SCHFCB
.IDENT \V04-000\
.EXTRN CURRENT_VCB, BUG$_NOTFCBFCB
.PSECT $CODE$,NOWRT,2

```

|          |    |       |                  |        |                          |        |
|----------|----|-------|------------------|--------|--------------------------|--------|
|          |    |       | 0000 0000        | .ENTRY | SEARCH_FCB, Save nothing | : 0376 |
|          | 51 | 0000G | CF D0 00002      | MOVL   | CURRENT_VCB, PREV_FCB    | : 0428 |
|          | 50 | 0000G | DF D0 00007      | MOVL   | @CURRENT_VCB, FCB        | : 0429 |
| 0000G    | CF |       | 50 D1 0000C 1\$: | CMPL   | FCB, CURRENT_VCB         | : 0433 |
|          |    |       | 26 13 00011      | BEQL   | 4\$                      |        |
|          | 07 | 0A    | A0 91 00013      | CMPB   | 10(FCB), #7              | : 0435 |
|          |    |       | 1A 12 00017      | BNEQ   | 3\$                      |        |
|          | 51 | 04    | A0 D1 00019      | CMPL   | 4(FCB), PREV_FCB         | : 0436 |
|          |    |       | 14 12 0001D      | BNEQ   | 3\$                      |        |
| 24       | A0 | 04    | BC B1 0001F      | CMPL   | @FILE_ID, 36(FCB)        | : 0439 |
|          |    |       | 05 12 00024      | BNEQ   | 2\$                      |        |
|          | 51 |       | 50 D0 00026      | MOVL   | FCB, R1                  | : 0440 |
|          |    |       | 11 11 00029      | BRB    | 5\$                      |        |
|          | 51 |       | 50 D0 0002B 2\$: | MOVL   | FCB, PREV_FCB            | : 0442 |
|          | 50 |       | 60 D0 0002E      | MOVL   | (FCB), FCB               | : 0443 |
|          |    |       | D9 11 00031      | BRB    | 1\$                      | : 0435 |
|          |    |       | FEFF 00033 3\$:  | BUGW   |                          | : 0446 |
|          |    |       | 0000* 00035      | .WORD  | <BUG\$_NOTFCBFCB!4>      |        |
|          |    |       | D3 11 00037      | BRB    | 1\$                      | : 0433 |
|          | 51 |       | 01 CE 00039 4\$: | MNEGL  | #1, R1                   |        |
| FFFFFFFF | 8F |       | 51 D1 0003C 5\$: | CMPL   | R1, #-1                  | : 0450 |
|          |    |       | 02 12 00043      | BNEQ   | 6\$                      |        |
|          |    |       | 50 D4 00045      | CLRL   | R0                       | : 0431 |
|          |    |       | 04 00047 6\$:    | RET    |                          | : 0454 |

; Routine Size: 72 bytes, Routine Base: \$CODE\$ + 0000

: 142 0455 1  
: 143 0456 1 END  
: 144 0457 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes  
: \$CODE\$ 72 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

| File                             | -----<br>Total | Symbols<br>Loaded | -----<br>Percent | Pages<br>Mapped | Processing<br>Time |
|----------------------------------|----------------|-------------------|------------------|-----------------|--------------------|
| :_\$255\$DUA28:[SYSLIB]LIB.L32;1 | 18619          | 8                 | 0                | 1000            | 00:01.9            |

COMMAND QUALIFIERS

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

: Size: 72 code + 0 data bytes  
: Run Time: 00:06.0  
: Elapsed Time: 00:18.2  
: Lines/CPU Min: 4600  
: Lexemes/CPU-Min: 12110  
: Memory Used: 68 pages  
: Compilation Complete



The image displays a grid of 100 terminal windows, arranged in 10 rows and 10 columns. Each window contains a program name followed by the letters 'LIS'. The programs are: Row 1: REQUEL LIS, RWATTR LIS; Row 2: MOOTFY LIS; Row 3: SCHFCB LIS; Row 4: MAKACC LIS; Row 5: MPWIND LIS; Row 6: MAPUBN LIS, PMS LIS, RDHEDR LIS, RWJB LIS; Row 7: RETDIR LIS; Row 8: ROBLOK LIS; Row 9: SMALOC LIS; Row 10: MAKMBE LIS, MAKSTR LIS, MATHOR LIS. The text is faint and the background is dark, typical of a photocopied document.