


```

FFFFFFFFF      IIIIII      NN      NN      DDDDDDD
FFFFFFFFF      IIIIII      NN      NN      DDDDDDD
FF            II          NN      NN      DD      DD
FF            II          NN      NN      DD      DD
FF            II          NNNN     NN      DD      DD
FF            II          NNNN     NN      DD      DD
FFFFFFF       II          NN      NN      DD      DD
FFFFFFF       II          NN      NN      DD      DD
FF            II          NN      NNNN    DD      DD
FF            II          NN      NNNN    DD      DD
FF            II          NN      NN      DD      DD
FF            II          NN      NN      DD      DD
FF            IIIIII     NN      NN      DDDDDDD
FF            IIIIII     NN      NN      DDDDDDD

```

```

LL            IIIIII      SSSSSSS
LL            IIIIII      SSSSSSS
LL            II          SS
LL            II          SS
LL            II          SS
LL            II          SS
LL            II          SSSSS
LL            II          SSSSS
LL            II          SS
LL            II          SS
LL            II          SS
LLLLLLLLLL   IIIIII     SSSSSSS
LLLLLLLLLL   IIIIII     SSSSSSS

```



```
1 0001 0
2 0002 0 MODULE FIND ( LANGUAGE ( BLISS32 ),
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
11 0011 1 * ALL RIGHTS RESERVED.
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
18 0018 1 * TRANSFERRED.
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
22 0022 1 * CORPORATION.
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 **
31 0031 1
32 0032 1 FACILITY: MTAACP
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1 This module finds a file by file name string.
36 0036 1
37 0037 1 ENVIRONMENT:
38 0038 1
39 0039 1 Starlet operating system, including privileged system services
40 0040 1 and internal exec routines.
41 0041 1
42 0042 1 --
43 0043 1
44 0044 1
45 0045 1
46 0046 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 25-MAY-77 15:20
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-002 MMD0283 Meg Dumont, 23-Mar-1984 10:33
51 0051 1 Fix to linkage of PARSE_FID.
52 0052 1
53 0053 1 V03-001 MMD0157 Meg Dumont, 26-Apr-1983 9:18
54 0054 1 Add support for long file names. Changed the maximum size
55 0055 1 file name one can have to be the symbol FILE_SPEC_MAX, which
56 0056 1 is defined in MTADEF.B32.
57 0057 1
```

```
58 0058 1 : V02-009 DMW00073 David Michael Walp 28-Jan-1981
59 0059 1 : Fixed wildcard characters in quoted string bug
60 0060 1 :
61 0061 1 : V02-008 DMW00068 David Michael Walp 11-Jan-1981
62 0062 1 : Added support for 17 ANSI 'a' characters thru QIO
63 0063 1 : filename parameters
64 0064 1 :
65 0065 1 : V02-007 DMW0006? David Michael Walp 18-Dec-1981
66 0066 1 : Rewrite to support 17 ANSI 'a' characters file names
67 0067 1 :
68 0068 1 : V02-006 DMW00006 David Michael Walp 22-Jan-1981
69 0069 1 : Added code for complete wild card support. Changes
70 0070 1 : in routine FIND_FILE. Replaced direct compares of
71 0071 1 : the file name and type via CH$EQL with the new
72 0072 1 : FMG$MATCH_NAME procedure and removed old wild code.
73 0073 1 :
74 0074 1 : V02-005 REFORMAT Maria del C. Nasr 30-Jun-1980
75 0075 1 :
76 0076 1 : **
77 0077 1 :
78 0078 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
79 0079 1
80 0080 1 REQUIRE 'SRCS:MTADEF.B32';
81 0464 1
82 0465 1 FORWARD ROUTINE
83 0466 1 FIND_FILE : COMMON_CALL NOVALUE, ! find file by file name string
84 0467 1 CLEAR_ST_SEARCH : COMMON_CALL NOVALUE; ! clear start of search
85 0468 1
86 0469 1 LINKAGE
87 0470 1 L_MATCH_NAME = JSB ( REGISTER = 2, REGISTER = 3, REGISTER = 4, REGISTER = 5 )
88 0471 1 : NOTUSED ( 10, 11 );
89 0472 1
90 0473 1
```

```

92 0474 1 GLOBAL ROUTINE FIND_FILE : COMMON_CALL NOVALUE =
93 0475 1
94 0476 1 |++
95 0477 1
96 0478 1 FUNCTIONAL DESCRIPTION:
97 0479 1 This routine finds a file by file name string.
98 0480 1
99 0481 1 CALLING SEQUENCE:
100 0482 1 FIND ( )
101 0483 1
102 0484 1 INPUT PARAMETERS:
103 0485 1 none
104 0486 1
105 0487 1 IMPLICIT INPUTS:
106 0488 1 LOCAL_FIB, CURRENT_VCB
107 0489 1
108 0490 1 OUTPUT PARAMETERS:
109 0491 1 none
110 0492 1
111 0493 1 IMPLICIT OUTPUTS:
112 0494 1 none
113 0495 1
114 0496 1 ROUTINE VALUE:
115 0497 1 NONE
116 0498 1
117 0499 1 SIDE EFFECTS:
118 0500 1 If file found, HDR1, HDR2, HDR3 and HDR4 will be read in or defaulted
119 0501 1 result file name string and length returned to user.
120 0502 1
121 0503 1 USER ERRORS:
122 0504 1 $$$_NOSUCHFILE - file not found
123 0505 1 $$$_RESULTOVF - result string overflow
124 0506 1 --
125 0507 1
126 0508 2 BEGIN
127 0509 2
128 0510 2 EXTERNAL REGISTER
129 0511 2 COMMON_REG;
130 0512 2
131 0513 2 EXTERNAL
132 0514 2 LOCAL_FIB : BBLOCK; ! copy of user's fib
133 0515 2
134 0516 2 EXTERNAL ROUTINE
135 0517 2 FORMAT_FID : COMMON_CALL, ! format fid
136 0518 2 FMGSMATCH_NAME : L MATCH_NAME, ! match general wild card str
137 0519 2 GET_START_HDR : L$GET_START_HDR, ! get hdrs to start search on
138 0520 2 PARSE_FID : COMMON_CALL, ! parse FID fields in HDR1 and HDR4
139 0521 2 PARSE_PATTERN_SPEC : COMMON_CALL, ! parse pattern spec
140 0522 2 READ_HDR : COMMON_CALL, ! read headers
141 0523 2 RESULTANT_STRING : COMMON_CALL NOVALUE, ! return resultant string
142 0524 2 REWIND_VOL_SET : COMMON_CALL, ! rewind volume set
143 0525 2 SPACE_EOF : COMMON_CALL, ! space to end of file
144 0526 2 SYSSFAO : ADDRESSING MODE ( ABSOLUTE ), ! format ASCII output
145 0527 2 WRAP_AROUND : L$WRAP_AROUND; ! wrap around to beginning of
146 0528 2 ! volume set
147 0529 2
148 0530 2 LITERAL
WILD_QUOTED = 0, ! bit layout for FILE_SPEC_BITS

```

```

149 0531          PATTERN_VMS_SPEC = 1,          |
150 0532          TAPE_ID_VMS_SPEC = 2,          |
151 0533          |
152 0534          NO_VMS              = 0,          | meanings of the 2nd and 3rd
153 0535          PAT_VMS             = 1,          | bits in FILE_SPEC_BITS
154 0536          TAPE_VMS            = 2,          |
155 0537          BOTH_VMS            = 3,          |
156 0538          |
157 0539          LOCAL
158 0540          FILE_SPEC_BITS       : DITVECTOR [ 3 ], | info about the file specs
159 0541          FID_VER              : WORD,          | HDR1 FID binary version
160 0542          PAT_VER              : WORD,          | Pattern binary fid version
161 0543          |
162 0544          ! descriptors and buffer for the file spec string
163 0545          ! size of FILE_SPEC_MAX to include VMS long filenames as well
164 0546          ! as ANSI file names
165 0547          |
166 0548          FID_DESC               : VECTOR [ 2, LONG ],
167 0549          FID_STR                : VECTOR [ FILE_SPEC_MAX, BYTE ],
168 0550          PAT_DESC               : VECTOR [ 2, LONG ],
169 0551          PAT_STR                : VECTOR [ FILE_SPEC_MAX, BYTE ];
170 0552          |
171 0553          BIND
172 0554          FILENAMES_TYPES        = FILE_SPEC_BITS : BLOCK;
173 0555          |
174 0556          MACRO
175 0557          BITS_2_3                 = 0, 1, 2, 0%;
176 0558          |
177 0559          ! if this is not a wild card lookup then zero context
178 0560          !
179 0561          !
180 0562          IF NOT .LOCAL_FIB [ FIB$V_WILD ] THEN LOCAL_FIB [ FIB$WCC ] = 0;
181 0563          !
182 0564          ! if beginning of search check for rewind switch
183 0565          !
184 0566          IF .LOCAL_FIB [ FIB$WCC ] EQL 0
185 0567          THEN
186 0568          BEGIN
187 0569          |
188 0570          IF .LOCAL_FIB [ FIB$V_REWIND ] EQL 1 THEN REWIND_VOL_SET ( );
189 0571          |
190 0572          ! clear start of search file ID
191 0573          !
192 0574          KERNEL_CALL ( CLEAR_ST_SEARCH );
193 0575          END
194 0576          |
195 0577          ELSE
196 0578          BEGIN
197 0579          |
198 0580          ! If either of these two values are zero then the user has not preceded
199 0581          ! this call with a first time thru lookup.
200 0582          !
201 0583          IF .CURRENT_VCB [ VCB$W_CUR_FID ] EQL 0
202 0584          OR .CURRENT_VCB [ VCB$W_START_FID ] EQL 0
203 0585          THEN ERR_EXIT ( $$$_BADPARAM );
204 0586          |
205 0587          ! if not first time through , then don't include current file in search

```

206 0588
207 0589
208 0590
209 0591
210 0592
211 0593
212 0594
213 0595
214 0596
215 0597
216 0598
217 0599
218 0600
219 0601
220 0602
221 0603
222 0604
223 0605
224 0606
225 0607
226 0608
227 0609
228 0610
229 0611
230 0612
231 0613
232 0614
233 0615
234 0616
235 0617
236 0618
237 0619
238 0620
239 0621
240 0622
241 0623
242 0624
243 0625
244 0626
245 0627
246 0628
247 0629
248 0630
249 0631
250 0632
251 0633
252 0634
253 0635
254 0636
255 0637
256 0638
257 0639
258 0640
259 0641
260 0642
261 0643
262 0644

```

:
: IF NOT .CURRENT_VCB [ VCBSV_LOGICEOVS ] THEN SPACE_EOF ( );
:
: END;
:
: position to first file and read the headers
:
: IF NOT GET_START_HDR ( )
: THEN
:
:   : tm, so at logical end of volume set
:   : continue search at beginning of tape unless the start of search was
:   : the beginning
:
:   IF NOT WRAP_AROUND ( ) THEN ERR_EXIT ( SSS_NOSUCHFILE );
:
:   : if dummy file, deny its existence
:
:   IF .CURRENT_VCB [ VCBSW_CUR_NUM ] EQLU 0 THEN ERR_EXIT ( SSS_NOSUCHFILE );
:
:   : if first time through save start context else check not at beginning of
:   : search
:
:   IF .LOCAL_FIB [ FIBSL_WCC ] EQL 0
:   THEN
:
:     : convert file seq and section number
:
:     KERNEL_CALL ( FORMAT_FID, CURRENT_VCB [ VCBSW_START_NUM ] )
:
:   ELSE
:
:     : possible end of search
:
:     IF .CURRENT_VCB [ VCBSL_CUR_FID ] EQL .CURRENT_VCB [ VCBSL_START_FID ]
:     THEN ERR_EXIT ( SSS_NOSUCHFILE );
:
:   : initialize buffer descriptors with constants
:
:   PAT_DESC [ 0 ] = FILE_SPEC_MAX;
:   PAT_DESC [ 1 ] = PAT_STR;
:   FID_DESC [ 1 ] = FID_STR;
:
:   : parse the pattern string
:
:   FILE_SPEC_BITS = PARSE_PATTERN_SPEC ( PAT_DESC, PAT_VER );
:
:   : loop until a match or we have searched them all
:
:   WHILE 1
:   DO
:
:     BEGIN
:
:       : reset the size of the FID buffer
:       : parse the FID of the current file
:
:       FID_DESC [ 0 ] = FILE_SPEC_MAX;

```

263 0645
264 0646
265 0647
266 0648
267 0649
268 0650
269 0651
270 0652
271 0653
272 0654
273 0655
274 0656
275 0657
276 0658
277 0659
278 0660
279 0661
280 0662
281 0663
282 0664
283 0665
284 0666
285 0667
286 0668
287 0669
288 0670
289 0671
290 0672
291 0673
292 0674
293 0675
294 0676
295 0677
296 0678
297 0679
298 0680
299 0681
300 0682
301 0683
302 0684
303 0685
304 0686
305 0687
306 0688
307 0689
308 0690
309 0691
310 0692
311 0693
312 0694
313 0695
314 0696
315 0697
316 0698
317 0699
318 0700
319 0701

```

FILE_SPEC_BITS [TAPE_ID_VMS_SPEC] = PARSE_FID (FID_DESC,FID_VER);

! test if the current file spec fits the pattern spec, exitloop
! and return if we have a match

      match name      Tape File ID Field Value
      and type      Quoted          VMS
-----
Pattern Quoted    Strings Equal    String Equal ( in case
File           Spec   Value          VMS spec in quotes )
-----
Value          VMS      Only *.* or *. ; Normal wildcard match

IF ( CASE .FILENAMES_TYPES [ BITS_2_3 ] FROM 0 TO 3 OF
      SET
      [ NO_VMS ]      : CH$EQL ( .FID_DESC[0], .FID_DESC[1],
                                .PAT_DESC[0], .PAT_DESC[1], ' ' );
      [ PAT_VMS ]    : .FILE_SPEC_BITS [ WILD_QUOTED ];
      [ TAPE_VMS ]   : CH$EQL ( .FID_DESC[0], .FID_DESC[1],
                                .PAT_DESC[0], .PAT_DESC[1], ' ' );
      [ BOTH_VMS ]  : FMG$MATCH_NAME ( .FID_DESC[0], .FID_DESC[1],
                                       .PAT_DESC[0], .PAT_DESC[1] )
      TES )
AND
(
  .LOCAL_FIB [ FIB$V_ALLVER ] ! wild version
OR ( .PAT_VER LEQU 0 ) ! OR first or last version
OR ( .PAT_VER EQLU .FID_VER ) ! OR same version
)
THEN EXITLOOP;

! no match, space to the end of this file and read the header for the
! next file, also test if have looked at all files
SPACE_EOF ( );
IF NOT READ_HDR ( )
THEN
  IF NOT WRAP_AROUND ( ) THEN ERR_EXIT ( SSS_NOSUCHFILE );

IF .CURRENT_VCB [ VCBSL_CUR_FID ] EQL .CURRENT_VCB [ VCBSL_START_FID ]
THEN ERR_EXIT ( SSS_NOSUCHFILE );

END; ! end of while loop

! have file match setup to write back FID
! return File Identifier Number in File Information Block
FORMAT_FID ( LOCAL_FIB [ FIB$W_FID_NUM ] );
LOCAL_FIB [ FIB$W_FID_RVN ] = .CURRENT_VCB [ VCBSB_CUR_RVN ] ;

! note through lookup at least once
IF .LOCAL_FIB [ FIB$V_WILD ]
THEN LOCAL_FIB [ FIB$E_WCC ] = 1
ELSE LOCAL_FIB [ FIB$E_WCC ] = 0;

```


0702
0703
0704
0705
0706
0707
0708
0709
0710

```
! return resultant string
RESULTANT_STRING ( .FILE_SPEC BITS [ TAPE_ID_VMS_SPEC ],
                  .FID_DESC [ 0 ],
                  .FID_DESC [ 1 ],
                  .FID_VER );
```

END;

! end of routine FIND_FILE

.TITLE FIND
.IDENT \V04-000\

.EXTRN LOCAL_FIB, FORMAT FID
.EXTRN FMG\$MATCH_NAME, GET_START_HDR
.EXTRN PARSE_FID, PARSE_PATTERN_SPEC
.EXTRN READ_HDR, RESULTANT_STRING
.EXTRN REWIND_VOL_SET, SPACE_EOF
.EXTRN SYSS\$AD, WRAP_AROUND
.EXTRN SYSS\$CMKRNL

.PSECT \$CODE\$,NOWRT,2

			07FC	00000	.ENTRY	FIND FILE, Save R2,R3,R4,R5,R6,R7,R8,R9,R10	: 0474
	59	00000000G	9F	9E	00002	MOVAB	@#SYSS\$CMKRNL, R9
	58	0000G	CF	9E	00009	MOVAB	LOCAL_FIB+16, R8
	5E	FF48	CE	9E	0000E	MOVAB	-184(SP), SP
	02	05	AB	E8	00013	BLBS	LOCAL_FIB+21, 1\$
			68	D4	00017	CLRL	LOCAL_FIB+16
			68	D5	00019	TSTL	LOCAL_FIB+16
			17	12	0001B	BNEQ	3\$
05		FO	AB	03	E1	BBC	#3, LOCAL_FIB, 2\$
		0000G	CF	00	FB	CALLS	#0, REWIND_VOL_SET
				7E	D4	CLRL	-(SP)
				5E	DD	PUSHL	SP
			69	0000V	CF	PUSHAB	CLEAR_ST_SEARCH
					03	CALLS	#3, SYSS\$CMKRNL
					16	BRB	6\$
			24	AB	D5	TSTL	36(CURRENT_VCB)
				05	13	BEQL	4\$
			28	AB	D5	TSTL	40(CURRENT_VCB)
				02	12	BNEQ	5\$
				14	BF	CHMU	#20
05		OB	AB	01	E0	BBS	#1, 11(CURRENT_VCB), 6\$
		0000G	CF	00	FB	CALLS	#0, SPACE_EOF
				0000G	30	BSBW	GET_START_HDR
			0A		50	BLBS	R0, 7\$
				0000G	30	BSBW	WRAP_AROUND
			04		50	BLBS	R0, 7\$
			0910	8F	BF	CHMU	#2320
			24	AB	B5	TSTW	36(CURRENT_VCB)
				04	12	BNEQ	8\$
			0910	8F	BF	CHMU	#2320
				68	D5	TSTL	LOCAL_FIB+16
				10	12	BNEQ	9\$
			28	AB	9F	PUSHAB	40(CURRENT_VCB)
							: 0616

				01	DD	0006A		PUSHL	#1		
				5E	DD	0006C		PUSHL	SP		
			0000G	CF	9F	0006E		PUSHAB	FORMAT_FID		
		69		04	FB	00072		CALLS	#4, SYSSCMKRN		
				0B	11	00075		BRB	10\$		
		28	AB	24	AB	D1 00077	9\$:	CMP	36(CURRENT_VCB), 40(CURRENT_VCB)		0622
				04	12	0007C		BNEQ	10\$		
				0910	8F	BF 0007E		CHMU	#2320		0623
		58	AE	4F	8F	9A 00082	10\$:	MOVZBL	#79, PAT_DESC		0627
		5C	AE	08	AE	9E 00087		MOVAB	PAT_STR, PAT_DESC+4		0628
		FC	AD	60	AE	9E 0008C		MOVAB	FID_STR, FID_DESC+4		0629
					5E	DD 00091		PUSHL	SP		0633
				5C	AE	9F 00093		PUSHAB	PAT_DESC		
		0000G	CF	02	FB	00096		CALLS	#2, PARSE_PATTERN_SPEC		
			56	50	90	0009B		MOV	R0, FILE_SPEC_BITS		
		F8	AD	4F	8F	9A 0009E	11\$:	MOVZBL	#79, FID_DESC		0644
				04	AE	9F 000A3		PUSHAB	FID_VER		0645
				F8	AD	9F 000A6		PUSHAB	FID_DESC		
		0000G	CF	02	FB	000A9		CALLS	#2, PARSE_FID		
56			01	50	F0	000AE		INSV	R0, #2, #T, FILE_SPEC_BITS		
57			56	01	EF	000B3		EXTZV	#1, #2, FILENAMES_TYPES, R7		0659
			03	57	CF	000B8		CASEL	R7, #0, #3		
001D		000F	000A	000F		000BC	12\$:	.WORD	14\$-12\$,-		
									13\$-12\$,-		
									14\$-12\$,-		
									15\$-12\$		
				05	11	000C4		BRB	14\$		0661
				56	E9	000C6	13\$:	BLBC	FILE_SPEC_BITS, 17\$		0663
				1C	11	000C9		BRB	16\$		
58	AE	20	FC	BD	F8	AD 2D 000CB	14\$:	CMPCS	FID_DESC, @FID_DESC+4, #32, PAT_DESC, -		0664
					5C	BE 000D3			@PAT_DESC+4		
					1F	12 000D5		BNEQ	17\$		
					0E	11 000D7		BRB	16\$		
				54	AE	7D 000D9	15\$:	MOVQ	PAT_DESC, R4		0666
				52	F8	AD 7D 000DD		MOVQ	FID_DESC, R2		
					0000G	30 000E1		BSBW	FMG\$MATCH_NAME		
					50	E9 000E4		BLBC	R0, 17\$		
				2E	04	AB	03	BBS	#3, LOCAL_FIB+20, 19\$		0670
							6E	TSTW	PAT_VER		0671
							2A	BEQL	19\$		
				04	AE	6E B1 000F0		CMPW	PAT_VER, FID_VER		0672
							24	BEQL	19\$		
		0000G	CF	00	FB	000F6	17\$:	CALLS	#0, SPACE_EOF		0680
		0000G	CF	00	FB	000FB		CALLS	#0, READ_RDR		0681
			0A	50	E8	00100		BLBS	R0, 18\$		
				0000G	30	00103		BSBW	WRAP_AROUND		0683
					50	E8 00106		BLBS	R0, T8\$		
				0910	8F	BF 00109		CHMU	#2320		
				28	AB	D1 0010D	18\$:	CMP	36(CURRENT_VCB), 40(CURRENT_VCB)		0685
							8A	BNEQ	11\$		
				0910	8F	BF 00114		CHMU	#2320		0686
							84	BRB	11\$		0637
				F4	A8	9F 0011A	19\$:	PUSHAB	LOCAL_FIB+4		0694
		0000G	CF	01	FB	0011D		CALLS	#1, FORMAT_FID		
		F8	A8	2F	AB	9B 00122		MOVZBW	47(CURRENT_VCB), LOCAL_FIB+8		0695
				05	A8	E9 00127		BLBC	LOCAL_FIB+21, 20\$		0699
					01	D0 0012B		MOVL	#1, LOCAL_FIB+16		0700

FIND
V04-000

L 10
16-Sep-1984 02:18:11
14-Sep-1984 12:46:39

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MTAACP.SRC]FIND.B32;1 Page 9 (2)

7E	56	0000G	7E	04	02	11	0012E	BRB	21\$:	0701
			7E	F8	68	D4	00130	CLRL	LOCAL FIB+16	:	0708
			01		AE	3C	00132	MOVZWL	FID_VER, -(SP)	:	0706
			CF		AD	7D	00136	MOVQ	FID_DESC, -(SP)	:	0705
					02	EF	0013A	EXTZV	#2, #1, FILE_SPEC_BITS, -(SP)	:	0710
					04	FB	0013F	CALLS	#4, RESULTANT_STRING	:	
					04		00144	RET		:	

; Routine Size: 325 bytes, Routine Base: \$CODE\$ + 0000

```

: 330      0711 1 ROUTINE CLEAR_ST_SEARCH : COMMON_CALL NOVALUE =
: 331      0712 1
: 332      0713 1 |++
: 333      0714 1
: 334      0715 1 | FUNCTIONAL DESCRIPTION:
: 335      0716 1 |   This routine clears the file id indicating the start of this search.
: 336      0717 1
: 337      0718 1 | CALLING SEQUENCE:
: 338      0719 1 |   CLEAR_ST_SEARCH ( ), called in kernel mode
: 339      0720 1
: 340      0721 1 | INPUT PARAMETERS:
: 341      0722 1 |   none
: 342      0723 1
: 343      0724 1 | IMPLICIT INPUTS:
: 344      0725 1 |   CURRENT_VCB - address of current volume control block
: 345      0726 1
: 346      0727 1 | OUTPUT PARAMETERS:
: 347      0728 1 |   none
: 348      0729 1
: 349      0730 1 | IMPLICIT OUTPUTS:
: 350      0731 1 |   CURRENT_VCB [ VCB$START_FID ] cleared
: 351      0732 1
: 352      0733 1 | ROUTINE VALUE:
: 353      0734 1 |   none
: 354      0735 1
: 355      0736 1 | SIDE EFFECTS:
: 356      0737 1 |   none
: 357      0738 1
: 358      0739 1 | USER ERRORS:
: 359      0740 1 |   none
: 360      0741 1
: 361      0742 1 | --
: 362      0743 1
: 363      0744 2 BEGIN
: 364      0745 2
: 365      0746 2 EXTERNAL REGISTER
: 366      0747 2 COMMON_REG;
: 367      0748 2
: 368      0749 2 CURRENT_VCB [ VCB$START_FID ] = 0;
: 369      0750 1 END;

```

```

                                0000 0000 CLEAR_ST_SEARCH:
                                :WORD   Save nothing
                                28 AB D4 00002 CLRL 40(CURRENT_VCB)
                                04 00005 RET
: 0711
: 0749
: 0750

```

; Routine Size: 6 bytes, Routine Base: \$CODE\$ + 0145

```

: 370      0751 1 END
: 371      0752 1
: 372      0753 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
SCODES	331	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255SDUA28:[SYSLIB]LIB.L32;1	18619	18 0	1000	00:01.9

COMMAND QUALIFIERS

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

: Size: 331 code + 0 data bytes
: Run Time: 00:11.2
: Elapsed Time: 00:36.6
: Lines/CPU Min: 4037
: Lexemes/CPU-Min: 22064
: Memory Used: 147 pages
: Compilation Complete

A grid of terminal window screenshots from a VAX/VMS system. Each window displays a specific command-line interface with various prompts and data. Several windows contain the following text:

- FREEPG LIS
- DEACCS LIS
- FIND LIS
- DATECH LIS
- FRMOD LIS
- CREATE LIS
- GETREQ LIS
- EXPIRE LIS
- CMR LIS
- FRMHD LIS
- HEADER LIS
- COMLABPRC LIS
- ENDVCL LIS
- GETFIB LIS

The screenshots show command prompts like 'D>' and 'U>', along with file names and system status indicators.