


```

PPPPPPPP      AAAAAA      SSSSSSSS      FFFFFFFFFF      IIIIII      NN      NN      DDDDDDDD      KK      KK
PPPPPPPP      AAAAAA      SSSSSSSS      FFFFFFFFFF      IIIIII      NN      NN      DDDDDDDD      KK      KK
PP      PP      AA      AA      SS      FF      II      NN      NN      DD      DD      KK      KK
PP      PP      AA      AA      SS      FF      II      NN      NN      DD      DD      KK      KK
PP      PP      AA      AA      SS      FF      II      NNNN      NN      DD      DD      KK      KK
PPPPPPPP      AA      AA      SSSSSS      FFFFFFFF      II      NN      NN      DD      DD      KKKKKK
PPPPPPPP      AA      AA      SSSSSS      FFFFFFFF      II      NN      NN      DD      DD      KKKKKK
PP      AAAAAAAAAA      SS      FF      II      NN      NNNN      DD      DD      KK      KK
PP      AAAAAAAAAA      SS      FF      II      NN      NNNN      DD      DD      KK      KK
PP      AA      AA      SS      FF      II      NN      NN      DD      DD      KK      KK
PP      AA      AA      SS      FF      II      NN      NN      DD      DD      KK      KK
PP      AA      AA      SSSSSSSS      FF      IIIIII      NN      NN      DDDDDDDD      KK      KK
PP      AA      AA      SSSSSSSS      FF      IIIIII      NN      NN      DDDDDDDD      KK      KK

```

```

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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE PASSFINDK ( %TITLE 'FINDK procedure'
2 0002 0 IDENT = '1-003' ! File: PASFINDK.B32 Edit: SBL1003
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 +-+
31 0031 1 FACILITY: Pascal Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains PASSFINDK, which implements the
36 0036 1 VAX-11 Pascal FINDK procedure.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 24-February-1982
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 24-February-1982
45 0045 1 1-002 - Store length word for FILE OF VARYING. FT3 QAR 006 SBL 31-Aug-1982
46 0046 1 1-003 - Turn off RAB$V_NLK. SPR 11-55690 SBL 8-Apr-1983
47 0047 1 --
48 0048 1

```

```
50 0049 1 %SBTTL 'Declarations'
51 0050 1
52 0051 1 PROLOGUE DEFINITIONS:
53 0052 1
54 0053 1
55 0054 1 REQUIRE 'RTLIN:PASPROLOG'; ! Externals, linkages, PSECTs, structures
56 0118 1
57 0119 1
58 0120 1 TABLE OF CONTENTS:
59 0121 1
60 0122 1
61 0123 1 FORWARD ROUTINE
62 0124 1 PASS$FINDK: NOVALUE; ! Do a FINDK
63 0125 1
64 0126 1
65 0127 1 MACROS:
66 0128 1
67 0129 1 NONE
68 0130 1
69 0131 1 EQUATED SYMBOLS:
70 0132 1
71 0133 1 NONE
72 0134 1
73 0135 1 FIELDS:
74 0136 1
75 0137 1 NONE
76 0138 1
77 0139 1 OWN STORAGE:
78 0140 1
79 0141 1 NONE
80 0142 1
```

```

82 0143 1 XSBTTL 'PASSFINDK - FINDK procedure'
83 0144 1 GLOBAL ROUTINE PASSFINDK (
84 0145 1     PFV: REF $PASSPFV_FILE_VARIABLE,      ! File variable
85 0146 1     KEY_NUMBER,                        ! Key number
86 0147 1     KEY_VALUE: REF BLOCK [, BYTE],    ! Key value
87 0148 1     MATCH_TYPE: BYTE,                ! Match type
88 0149 1     ERROR                                ! Unwind address if error
89 0150 1 ): NOVALUE =
90 0151 1
91 0152 1 ++
92 0153 1 : FUNCTIONAL DESCRIPTION:
93 0154 1
94 0155 1     PASSFINDK implements the VAX-11 Pascal FINDK procedure. It
95 0156 1     finds a record in an indexed file by key and does a GET.
96 0157 1
97 0158 1 : CALLING SEQUENCE:
98 0159 1
99 0160 1     CALL PASSFINDK (PFV.mr.r, KEY_NUMBER.rl.v,
100 0161 1     KEY_VALUE.rx.ds, MATCH_TYPE.rbu.v [, ERROR.j.r])
101 0162 1
102 0163 1 : FORMAL PARAMETERS:
103 0164 1
104 0165 1     PFV                - The Pascal File Variable (PFV) passed by reference.
105 0166 1     The structure of the PFV is defined in PASFV.REQ.
106 0167 1
107 0168 1     KEY_NUMBER          - The number of the key to be searched.
108 0169 1
109 0170 1     KEY_VALUE           - The value of the key to look for, passed by
110 0171 1     descriptor. Valid datatypes are BU, WU, L
111 0172 1     LU, T and Z. (Z is equivalent to T).
112 0173 1
113 0174 1     MATCH_TYPE         - Denotes the match type for the search. The values
114 0175 1     are:
115 0176 1         0 - Match on equal only
116 0177 1         1 - Match on greater than or equal to
117 0178 1         2 - Match on greater than only
118 0179 1
119 0180 1     ERROR                - Optional. If specified, the address to unwind to
120 0181 1     if an error occurs.
121 0182 1
122 0183 1 : IMPLICIT INPUTS:
123 0184 1
124 0185 1     NONE
125 0186 1
126 0187 1 : IMPLICIT OUTPUTS:
127 0188 1
128 0189 1     NONE
129 0190 1
130 0191 1 : ROUTINE VALUE:
131 0192 1
132 0193 1     NONE
133 0194 1
134 0195 1 : SIDE EFFECTS:
135 0196 1
136 0197 1     Places file in Inspection mode
137 0198 1
138 0199 1 : SIGNALLED ERRORS:

```

```

139 0200 1 |
140 0201 1 | FILNOTOPE - File not open
141 0202 1 | FILNOTKEY - File not opened for keyed access
142 0203 1 | KEYNOTDEF - Key 'n' is not defined for this file
143 0204 1 | KEYVALINC - Key value is incompatible
144 0205 1 | FAIGETLOC - Failed to get locked record
145 0206 1 | ERRDURFIN - Error during FIND or FINDK
146 0207 1 |
147 0208 1 |
148 0209 1 |
149 0210 1 |
150 0211 2 BEGIN
151 0212 2
152 0213 2 LOCAL
153 0214 2 FCB: REF $PASSFCB CONTROL_BLOCK, | File control block
154 0215 2 PFV_ADDR: VOLATILE, | Enable argument
155 0216 2 UNWIND_ACT: VOLATILE, | Enable argument
156 0217 2 ERROR_ADDR: VOLATILE, | Enable argument
157 0218 2 KEYPES_VECTOR: REF VECTOR [, WORD], | Vector of keytype masks and lengths
158 0219 2 KEYPES_MASK: BITVECTOR [16], | Mask of allowable key types
159 0220 2 KEY_SIZE: WORD, | Key size in bytes
160 0221 2 STATUS, | Status from $GET
161 0222 2 LOCAL_KEY; | Local key value
162 0223 2
163 0224 2 BIND
164 0225 2 RAB = FCB: REF BLOCK [, BYTE]; | RMS RAB
165 0226 2
166 0227 2 BUILTIN
167 0228 2 ACTUALCOUNT;
168 0229 2
169 0230 2 LITERAL
170 0231 2 K_EQL = 0, | Match on equal
171 0232 2 K_GEQ = 1, | Match on greater or equal
172 0233 2 K_GTR = 2; | Match on greater
173 0234 2
174 0235 2 ENABLE
175 0236 2 PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);
176 0237 2
177 0238 2 IF ACTUALCOUNT () GEQU 5
178 0239 2 THEN
179 0240 2 ERROR_ADDR = .ERROR; | Set unwind address
180 0241 2
181 0242 2 | +
182 0243 2 | Set PFV address enable argument.
183 0244 2 | -
184 0245 2
185 0246 2 PFV_ADDR = PFV [PFV$R_PFV];
186 0247 2
187 0248 2 | +
188 0249 2 | Validate and lock PFV
189 0250 2 | -
190 0251 2
191 0252 2 PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
192 0253 2
193 0254 2 | +
194 0255 2 | Set unwind action to unlock file.
195 0256 2 | -

```

```

: 196 0257 2
: 197 0258 2 UNWIND_ACT = PASSK_UNWIND_UNLOCK;
: 198 0259 2
: 199 0260 2 !+
: 200 0261 2 ! Open file if it should be implicitly opened.
: 201 0262 2 !-
: 202 0263 2
: 203 0264 2 IF NOT .PFV [PFV$V_VALID]
: 204 0265 2 THEN
: 205 0266 2     PASS$OPEN_IMPLICIT (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
: 206 0267 2
: 207 0268 2 !+
: 208 0269 2 ! Verify that the file is open.
: 209 0270 2 !-
: 210 0271 2
: 211 0272 2 IF NOT .PFV [PFV$V_OPEN]
: 212 0273 2 THEN
: 213 0274 2     $PASSIO_ERROR (PASS$_FILNOTOPE,0);
: 214 0275 2
: 215 0276 2 !+
: 216 0277 2 ! Verify that the file is opened for keyed access
: 217 0278 2 !-
: 218 0279 2
: 219 0280 2 IF NOT .FCB [FCB$V_KEYED]
: 220 0281 2 THEN
: 221 0282 2     $PASSIO_ERROR (PASS$_FILNOTKEY,0);
: 222 0283 2
: 223 0284 2 !+
: 224 0285 2 ! Verify that the key number is valid for the file and
: 225 0286 2 ! set the key number. Set access mode to keyed.
: 226 0287 2 !-
: 227 0288 2
: 228 0289 2 IF .KEY_NUMBER GEQU .FCB [FCB$L_NKEYS]
: 229 0290 2 THEN
: 230 0291 2     $PASSIO_ERROR (PASS$_KEYNOTDEF,1,.KEY_NUMBER);
: 231 0292 2 RAB [RAB$B_RRF] = .KEY_NUMBER;           ! Set key number
: 232 0293 2 RAB [RAB$B_RAC] = RAB$C_KEY;         ! Keyed access
: 233 0294 2
: 234 0295 2 !+
: 235 0296 2 ! Get mask of allowable datatypes for this key. KEYTYPES VECTOR is
: 236 0297 2 ! a vector of longwords, one for each key in the file. The first word of
: 237 0298 2 ! each longword is a bit mask, with each bit corresponding to a datatype
: 238 0299 2 ! code (0-15). If a bit is set, that key datatype may be used to access
: 239 0300 2 ! the key. The second word is the length of the key in bytes.
: 240 0301 2 !-
: 241 0302 2
: 242 0303 2 KEYTYPES_VECTOR = .FCB [FCB$A_KEY_TYPES];
: 243 0304 2 KEYTYPES_MASK = .KEYTYPES_VECTOR [.KEY_NUMBER*2];
: 244 0305 2
: 245 0306 2 !+
: 246 0307 2 ! Check to see if caller key type is allowed for this key.
: 247 0308 2 !-
: 248 0309 2
: 249 0310 2 IF .KEY_VALUE [DSC$B_DTYPE] GTRU 15 ! No datatype greater than 15 is allowed
: 250 0311 2 THEN
: 251 0312 2     $PASSIO_ERROR (PASS$_KEYVALINC,1,.KEY_NUMBER);
: 252 0313 2 IF NOT .KEYTYPES_MASK [.KEY_VALUE [DSC$B_DTYPE]]

```

```

253 0314 2 THEN
254 0315 2 SPASSIO_ERROR (PASS_KEYVALINC,1,.KEY_NUMBER);
255 0316 2
256 0317 2 !+
257 0318 2 ! Get key value.
258 0319 2 !-
259 0320 2
260 0321 2 IF .KEY_VALUE [DSC$B_DTYPE] EQL DSC$K_DTYPE_I OR
261 0322 2 .KEY_VALUE [DSC$B_DTYPE] EQL DSC$K_DTYPE_Z
262 0323 2 THEN
263 0324 2 BEGIN
264 0325 2 RAB [RAB$L_KBF] = .KEY_VALUE [DSC$A_POINTER]; ! Key address
265 0326 2 IF .KEY_VALUE [DSC$W_LENGTH] GTRU 255
266 0327 2 THEN
267 0328 2 SPASSIO_ERROR (PASS_KEYVALINC,1,.KEY_NUMBER);
268 0329 2 RAB [RAB$B_RSZ] = .KEY_VALUE [DSC$W_LENGTH]; ! String size
269 0330 2 END
270 0331 2 ELSE
271 0332 2 BEGIN
272 0333 2 !+
273 0334 2 ! Key value is numeric. Expand it to a longword and store in
274 0335 2 ! LOCAL_KEY.
275 0336 2 !-
276 0337 2
277 0338 2 LOCAL
278 0339 2 KEYVAL: REF BLOCK [, BYTE];
279 0340 2
280 0341 2 KEYVAL = .KEY_VALUE [DSC$A_POINTER]; ! Get key value address
281 0342 2
282 0343 2 CASE .KEY_VALUE [DSC$B_DTYPE] FROM DSC$K_DTYPE_BU TO DSC$K_DTYPE_L OF
283 0344 2 SET
284 0345 2
285 0346 2 [DSC$K_DTYPE_BU]: LOCAL_KEY = .KEYVAL [0,0,8,0];
286 0347 2 [DSC$K_DTYPE_WU]: LOCAL_KEY = .KEYVAL [0,0,16,0];
287 0348 2 [DSC$K_DTYPE_L, DSC$K_DTYPE_LU]:
288 0349 2 LOCAL_KEY = .KEYVAL [0,0,32,0];
289 0350 2 [INRANGE, OVRANGE]:
290 0351 2 SPASSIO_ERROR (PASS_INVARGPAS,0);
291 0352 2
292 0353 2 TES;
293 0354 2
294 0355 2 !+
295 0356 2 ! Check that key value is in proper range for file's key.
296 0357 2 !-
297 0358 2
298 0359 2 KEY_SIZE = .KEYTYPES_VECTOR [(2*.KEY_NUMBER)+1];
299 0360 2 IF .KEY_SIZE EQL 1
300 0361 2 THEN
301 0362 2 BEGIN
302 0363 2 IF .LOCAL_KEY GTRU 255
303 0364 2 THEN
304 0365 2 SPASSIO_ERROR (PASS_KEYVALINC,1,.KEY_NUMBER);
305 0366 2 END
306 0367 2 ELSE IF .KEY_SIZE EQL 2
307 0368 2 THEN
308 0369 2 BEGIN
309 0370 2 IF .LOCAL_KEY GTRU 65535

```



```

310 0371 4
311 0372 4
312 0373 4
313 0374 3
314 0375 3
315 0376 3
316 0377 3
317 0378 3
318 0379 3
319 0380 3
320 0381 3
321 0382 3
322 0383 3
323 0384 2
324 0385 2
325 0386 2
326 0387 2
327 0388 2
328 0389 2
329 0390 2
330 0391 2
331 0392 2
332 0393 2
333 0394 2
334 0395 2
335 0396 2
336 0397 2
337 0398 2
338 0399 2
339 0400 2
340 0401 2
341 0402 2
342 0403 2
343 0404 2
344 0405 2
345 0406 2
346 0407 2
347 0408 2
348 0409 2
349 0410 2
350 0411 2
351 0412 2
352 0413 2
353 0414 2
354 0415 2
355 0416 2
356 0417 2
357 0418 2
358 0419 2
359 0420 2
360 0421 2
361 0422 2
362 0423 2
363 0424 2
364 0425 2
365 0426 3
366 0427 3

```

```

        THEN
        $PASSIO_ERROR (PASS_KEYVALINC,1,.KEY_NUMBER);
    END
ELSE IF .KEY_SIZE NEQ 4
    THEN
        $PASSIO_ERROR (PASS_INVARGPAS,0);

    !+
    !- Set key buffer address and size.
    !-

    RAB [RAB$K_BKF] = LOCAL_KEY;
    RAB [RAB$B_KSZ] = .KEY_SIZE;
    END;

    !+
    !- Set match type.
    !-

    RAB [RAB$V_KGE] = 0;
    RAB [RAB$V_KGT] = 0;

    CASE .MATCH_TYPE FROM K_EQL TO K_GTR OF
    SET
        [K_EQL]: ; ! Set equal
        [K_GEQ]: RAB [RAB$V_KGE] = 1; ! Set greater or equal
        [K_GTR]: RAB [RAB$V_KGT] = 1; ! Set greater than
    [OORANGE]:
        $PASSIO_ERROR (PASS_INVARGPAS,0);

    TES;

    PFV [PFV$V_DFB] = 0; ! Undefine file buffer
    PFV [PFV$V_EOF_DEFINED] = 0; ! EOF(f) not defined
    FCB [FCB$V_EOF] = 0; ! Not at EOF
    RAB [RAB$V_NLK] = 0; ! Turn off NLK bit

    !+
    !- Get the record.
    !-

    STATUS = $PASSRMS_OP ($GET (RAB=.RAB));

    !+
    !- If varying, put component length in first word of user buffer.
    !- Do this before we check for errors!
    !-

    IF .FCB [FCB$V_VARYING]
    THEN
        (.PFV [PFV$A_BUFFER])<0,16,0> = .RAB [RAB$W_RSZ];

    IF NOT .STATUS
    THEN
        BEGIN
            !+

```

```

367 0428 3      ! If the status is 'record not found', simply leave DFB clear.
368 0429 3      ! Otherwise, signal the appropriate error.
369 0430 3      -
370 0431 3
371 0432 3      IF .STATUS NEQ RMSS_RNF
372 0433 3      THEN
373 0434 3          IF .STATUS EQL RMSS_RLK      ! Record locked?
374 0435 3          THEN
375 0436 3              $PASSIO_ERROR (PASS_FAIGETLOC) ! Failed to get loc ed record
376 0437 3          ELSE
377 0438 3              $PASSIO_ERROR (PASS_ERRDURFIN); ! Error during FIND or FINDK
378 0439 3          END
379 0440 3      ELSE
380 0441 3          PFV [PFV$V_DFB] = 1;
381 0442 3
382 0443 3      !+
383 0444 3      ! Set Inspection mode
384 0445 3      ! Indicate successful completion
385 0446 3      ! Unlock the file
386 0447 3      -
387 0448 3
388 0449 3      FCB [FCB$V_INSPECTION] = 1;
389 0450 3      FCB [FCB$V_GENERATION] = 0;
390 0451 3      FCB [FCB$L_STATUS] = 0;
391 0452 3      PFV [PFV$V_LOCK] = 0;
392 0453 3
393 0454 3      RETURN;
394 0455 3
395 0456 1      END;

```

! End of routine PASSFINDK

.TITLE PASSFINDK FINDK procedure
.IDENT \1-003\

.EXTRN PASSFINDK, PASS\$IO_HANDLER
.EXTRN PASS\$VALIDATE_PFV
.EXTRN PASS\$OPEN_IMPLICIT
.EXTRN PASS\$SIGNAL, PASSK_FILNOTOPE
.EXTRN PASSK_FILNOTKEY
.EXTRN PASSK_KEYNOTDEF
.EXTRN PASSK_KEYVALINC
.EXTRN PASSK_INVARGPAS
.EXTRN SYSSGET, PASSK_FAIGETLOC
.EXTRN PASSK_ERRDURFIN

.PSECT _PASSCODE, NOWRT, SHR, PIC, 2

			OFFC 00000	.ENTRY PASSFINDK, Save R2,R3,R4,R5,R6,R7,R8,R9,-	: 0144
				R10,R11	: :
	SE	10	C2 00002	SUBL2 #16, SP	: :
		04	AE 7C 00005	CLRQ ERROR_ADDR	: 0211
		0C	AE D4 00008	CLRL PFV_ADDR	: :
	6D	0198	CF DE 0000B	MOVAL 34\$, (FP)	: :
	05		6C 91 00010	CMPB (AP), #5	: 0238
			05 1F 00013	BLSSU 1\$: :
	04	AE	14 AC D0 00015	MOVL ERROR, ERROR_ADDR	: 0240
		56	04 AC D0 0001A 1\$:	MOVL PFV, R6	: 0246

	0C	AE		56	DO	0001E	MOVL	R6, PFV_ADDR		
			00000000G	00	16	00022	JSB	PASS\$VACIDATE_PFV		0252
	08	AE		01	DO	00028	MOVL	#1, UNWIND_ACT		0258
		5A	04	A6	9E	0002C	MOVAB	4(R6), R10		0264
		06	02	AA	E8	00030	BLBS	2(R10), 2\$		
			00000000G	00	16	00034	JSB	PASS\$OPEN_IMPLICIT		0266
	08	6A		1D	E0	0003A	BBS	#29, (R10), 3\$		0272
				7E	D4	0003E	CLRL	-(SP)		0274
		7E	00G	8F	9A	00040	MOVZBL	#PASSK_FILNOTOPE, -(SP)		
				0E	11	00044	BRB	4\$		
		5B	FC	A7	9E	00046	MOVAB	-4(FCB), R11		0280
	09	6B		02	E0	0004A	BBS	#2, (R11), 5\$		
				7E	D4	0004E	CLRL	-(SP)		0282
		7E	00G	8F	9A	00050	MOVZBL	#PASSK_FILNOTKEY, -(SP)		
				00D2	31	00054	BRW	23\$		
		55	08	AC	DO	00057	MOVL	KEY_NUMBER, R5		0289
	DO	A7		55	D1	0005B	CMPL	R5, -48(FCB)		
				0B	1F	0005F	BLSSU	6\$		
				55	DD	00061	PUSHL	R5		0291
				01	DD	00063	PUSHL	#1		
		7E	00G	8F	9A	00065	MOVZBL	#PASSK_KEYNOTDEF, -(SP)		
				008E	31	00069	BRW	17\$		
		35		55	90	0006C	MOVB	R5, 53(FCB)		0292
		1E		01	90	00070	MOVB	#1, 30(FCB)		0293
		58	CC	A7	DO	00074	MOVL	-52(FCB), KEYTYPES_VECTOR		0303
	52	55		01	78	00078	ASHL	#1, R5, R2		0304
		59		6842	B0	0007C	MOVW	(KEYTYPES_VECTOR)[R2], KEYTYPES_MASK		
		53	OC	AC	DO	00080	MOVL	KEY_VALUE, R3		0310
		54	02	A3	9A	00084	MOVZBL	2(R3), R4		
		0F		54	91	00088	CMPB	R4, #15		
				65	1A	0008B	BGTRU	16\$		
	61	59		54	E1	0008D	BBC	R4, KEYTYPES_MASK, 16\$		0313
		0E		54	91	00091	CMPB	R4, #14		0321
				04	13	00094	BEQL	7\$		
				54	D5	00096	TSTL	R4		0322
				12	12	00098	BNEQ	8\$		
		30	04	A3	DO	0009A	MOVL	4(R3), 48(FCB)		0325
		00FF		63	B1	0009F	CMPW	(R3), #255		0326
				4C	1A	000A4	BGTRU	16\$		
		34		63	90	000A6	MOVB	(R3), 52(FCB)		0329
				63	11	000AA	BRB	20\$		0321
			04	A3	DO	000AC	MOVL	4(R3), KEYVAL		0341
		53		54	8F	000B0	CASEB	R4, #2, #6		0343
006F		001A		0010		000B4	.WORD	10\$-9\$,-		
		001A		006F		000BC		11\$-9\$,-		
								12\$-9\$,-		
								22\$-9\$,-		
								22\$-9\$,-		
								12\$-9\$		
				5F	11	000C2	BRB	22\$		0351
		6E		63	9A	000C4	MOVZBL	(KEYVAL), LOCAL_KEY		0346
				08	11	000C7	BRB	13\$		
		6E		63	3C	000C9	MOVZWL	(KEYVAL), LOCAL_KEY		0347
				03	11	000CC	BRB	13\$		
		6E		63	DO	000CE	MOVL	(KEYVAL), LOCAL_KEY		0349
		53	02	A842	B0	000D1	MOVW	2(KEYTYPES_VECTOR)[R2], KEY_SIZE		0359

S
R
E
L
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C

	01		53	B1	000D6		CMPW	KEY_SIZE, #1		0360
			09	12	000D9		BNEQ	14\$		
	000000FF	8F	6E	D1	000DB		CMPL	LOCAL_KEY, #255		0363
			0C	11	000E2		BRB	15\$		
	02		53	B1	000E4	14\$:	CMPW	KEY_SIZE, #2		0367
			19	12	000E7		BNEQ	18\$		
	0000FFFF	8F	6E	D1	000E9		CMPL	LOCAL_KEY, #65535		0370
			15	1B	000F0	15\$:	BLEQU	19\$		
			55	DD	000F2	16\$:	PUSHL	R5		0372
			01	DD	000F4		PUSHL	#1		
	0000000G	7E	00G	8F	9A	000F6	MOVZBL	#PASSK_KEYVALINC, -(SP)		
		00		03	FB	000FA	CALLS	#3, PASS\$SIGNAL		
				04		00101	RET			
	04		53	B1	00102	18\$:	CMPW	KEY_SIZE, #4		0374
			1C	12	00105		BNEQ	22\$		
	30	A7	6E	9E	00107	19\$:	MOVAB	LOCAL_KEY, 48(FCB)		0382
	34	A7	53	90	0010B		MOVB	KEY_SIZE, 52(FCB)		0383
		53	04	A7	9E	0010F	20\$:	MOVAB	4(FCB), R3	0390
	02	A3	60	8F	8A	00113	BICB2	#96, 2(R3)		0391
		00	10	AC	8F	00118	CASEB	MATCH_TYPE, #0, #2		0393
02								26\$-21\$,-		
001A		0014	001F		0011D	21\$:	.WORD	24\$-21\$,-		
								25\$-21\$		
								-(SP)		0400
	0000000G	7E	00G	7E	D4	00123	22\$:	CLRL		
		00		8F	9A	00125	MOVZBL	#PASSK_INVARGPAS, -(SP)		
				02	FB	00129	23\$:	CALLS	#2, PASS\$SIGNAL	
				04		00130	RET			
	02	A3		20	88	00131	24\$:	BISB2	#32, 2(R3)	0397
				05	11	00135		BRB	26\$	
	02	A3	40	8F	88	00137	25\$:	BISB2	#64, 2(R3)	0398
	02	AA		06	8A	0013C	26\$:	BICB2	#6, 2(R10)	0405
	01	AB		20	8A	00140		BICB2	#32, 1(R11)	0406
	02	A3		10	8A	00144		BICB2	#16, 2(R3)	0407
	0000000G	00		57	DD	00148	27\$:	PUSHL	FCB	0413
		0D		01	FB	0014A	CALLS	#1, SYSSGET		
	0001825A	8F		50	E8	00151	BLBS	\$\$\$STATUS, 28\$		
				50	D1	00154	CMPL	\$\$\$STATUS, #98906		
				04	12	0015B	BNEQ	28\$		
	05	F8	03	AB	E8	0015D	BLBS	3(R11), 27\$		
		A7		02	E1	00161	28\$:	BBC	#2, -8(FCB), 29\$	0420
	00	B6	22	A7	B0	00166	MOVW	34(FCB), 20(R6)		0422
		24		50	E8	0016B	29\$:	BLBS	STATUS, 32\$	0424
	000182B2	8F		50	D1	0016E	CMPL	STATUS, #98994		0432
				1F	13	00175	BEQL	33\$		
	000182AA	8F		50	D1	00177	CMPL	STATUS, #98986		0434
				06	12	0017E	BNEQ	30\$		
		7E	00G	8F	9A	00180	MOVZBL	#PASSK_FAIGETLOC, -(SP)		0436
				04	11	00184	BRB	31\$		
	0000000G	7E	00G	8F	9A	00186	30\$:	MOVZBL	#PASSK_ERRDURFIN, -(SP)	0438
		00		01	FB	0018A	31\$:	CALLS	#1, PASS\$SIGNAL	
				04		00191	RET			
	02	AA		02	88	00192	32\$:	BISB2	#2, 2(R10)	0441
	01	AB		08	88	00196	33\$:	BISB2	#8, 1(R11)	0449
	01	AB		10	8A	0019A		BICB2	#16, 1(R11)	0450
			D4	A7	D4	0019E		CLRL	-44(FCB)	0451
	03	AA	80	8F	8A	001A1		BICB2	#128, 3(R10)	0452
				04	001A6		RET			0456

PASSFINDK
1-003

FINDK procedure
PASSFINDK - FINDK procedure

H 11
16-Sep-1984 01:35:17
14-Sep-1984 12:51:29

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[PASRTL.SRC]PASFINDK.B32;1

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PAS

			0000	001A7	348:	.WORD	Save nothing		
	50	08	AC	DO	001A9	MOVL	8(AP), R0	:	0211
	50	04	A0	DO	001AD	MOVL	4(R0), R0	:	
		F4	A0	9F	001B1	PUSHAB	ERROR_ADDR	:	
		F8	A0	9F	001B4	PUSHAB	UNWIND_ACT	:	
		FC	A0	9F	001B7	PUSHAB	PFV_ADDR	:	
			03	DD	001BA	PUSHL	#3	:	
			5E	DD	001BC	PUSHL	SP	:	
	7E	04	AC	7D	001BE	MOVQ	4(AP), -(SP)	:	
00000000G	00		03	FB	001C2	CALLS	#3, PASS\$IO_HANDLER	:	
			04	001C9		RET		:	

: Routine Size: 458 bytes, Routine Base: _PASSCODE + 0000

: 396 0457 1
: 397 0458 1 !<BLF/PAGE>

PASS\$FINDK FINDK procedure
1-003 PASS\$FINDK - FINDK procedure

I 11
16-Sep-1984 01:35:17 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:51:29 [PASRTL.SRC]PAS\$FINDK.B32;1

: 399 0459 1 END
: 400 0460 1
: 401 0461 0 ELUDOM

! End of module PASS\$FINDK

PSECT SUMMARY

Name Bytes Attributes
:_PASS\$CODE 458 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	---- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	25	0	581	00:01.0
_\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	97	22	33	00:00.4

COMMAND QUALIFIERS

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

: S _e: 458 code + 0 data bytes
: Run Time: 00:12.4
: Elapsed Time: 00:44.5
: Lines/CPU Min: 2232
: Lexemes/CPU-Min: 21283
: Memory Used: 194 pages
: Compilation Complete

