


```

PPPPPPPP      AAAAAA      SSSSSSSS      GGGGGGGG      EEEEEEEEEE      TTTTTTTTTT
PPPPPPPP      AAAAAA      SSSSSSSS      GGGGGGGG      EEEEEEEEEE      TTTTTTTTTT
PP      PP      AA      AA      SS      GG      EE      TT
PP      PP      AA      AA      SS      GG      EE      TT
PP      PP      AA      AA      SS      GG      EE      TT
PP      PP      AA      AA      SS      GG      EE      TT
PPPPPPPP      AA      AA      SSSSSS      GG      EE      TT
PPPPPPPP      AA      AA      SSSSSS      GG      EE      TT
PP      AAAAAAAAAA      SS      GG      GGGGGG      EE      TT
PP      AAAAAAAAAA      SS      GG      GGGGGG      EE      TT
PP      AA      AA      SS      GG      GG      EE      TT
PP      AA      AA      SS      GG      GG      EE      TT
PP      AA      AA      SSSSSSSS      GGGGGG      EEEEEEEEEE      TT
PP      AA      AA      SSSSSSSS      GGGGGG      EEEEEEEEEE      TT

```

```

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 PASSGET ( %TITLE 'GET procedure'
2 0002 0 IDENT = '1-002' ! File: PASGET.B32 Edit: SBL1002
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 *
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
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24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
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 PASSGET, which implements the
36 0036 1 VAX-11 Pascal GET procedure.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 1-April-1981
45 0045 1 1-002 - Turn off NLK bit after $GET. SPR 11-55690 SBL 8-Apr-1983
46 0046 1 --
47 0047 1

```

PASSGET
1-002

GET procedure
Declarations

I 12
16-Sep-1984 01:37:43
14-Sep-1984 12:51:30

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASGET.B32;1

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PA
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```

: 49      0048 1 %SBTTL 'Declarations'
: 50      0049 1
: 51      0050 1 : PROLOGUE DEFINITIONS:
: 52      0051 1
: 53      0052 1
: 54      0053 1 REQUIRE 'RTLIN:PASPROLOG';           ! Externals, linkages, PSECTs, structures
: 55      0117 1
: 56      0118 1
: 57      0119 1 : TABLE OF CONTENTS:
: 58      0120 1
: 59      0121 1
: 60      0122 1 FORWARD ROUTINE
: 61      0123 1     PASSGET: NOVALUE,                ! Do a GET
: 62      0124 1     PASSGET UNLOCK: NOVALUE,          ! Do a GET and UNLOCK
: 63      0125 1     PASS$GET: JSB_GET NOVALUE;        ! Internally callable
: 64      0126 1
: 65      0127 1
: 66      0128 1 : MACROS:
: 67      0129 1
: 68      0130 1     NONE
: 69      0131 1
: 70      0132 1 : EQUATED SYMBOLS:
: 71      0133 1
: 72      0134 1     NONE
: 73      0135 1
: 74      0136 1 : FIELDS:
: 75      0137 1
: 76      0138 1     NONE
: 77      0139 1
: 78      0140 1 : OWN STORAGE:
: 79      0141 1
: 80      0142 1     NONE

```

```

82 0143 1 %SBTTL 'PASSGET - GET procedure'
83 0144 1 GLOBAL ROUTINE PASSGET (           ! Do a GET
84 0145 1     PFV: REF $PASSPFV_FILE_VARIABLE, ! File variable
85 0146 1     ERROR                               ! Unwind address if error
86 0147 1 ): NOVALUE =
87 0148 1
88 0149 1 !++
89 0150 1 ! FUNCTIONAL DESCRIPTION:
90 0151 1
91 0152 1     PASSGET implements the VAX-11 Pascal GET procedure. It
92 0153 1     reads a record from the file and places its contents in
93 0154 1     the file buffer.
94 0155 1
95 0156 1 ! CALLING SEQUENCE:
96 0157 1
97 0158 1     CALL PASSGET (PFV.mr.r [, ERROR.j.r])
98 0159 1
99 0160 1 ! FORMAL PARAMETERS:
100 0161 1
101 0162 1     PFV           - The Pascal File Variable (PFV) passed by reference.
102 0163 1     The structure of the PFV is defined in PASPFV.REQ.
103 0164 1
104 0165 1     ERROR        - Optional. If specified, the address to unwind to
105 0166 1     if an error occurs.
106 0167 1
107 0168 1 ! IMPLICIT INPUTS:
108 0169 1
109 0170 1     NONE
110 0171 1
111 0172 1 ! IMPLICIT OUTPUTS:
112 0173 1
113 0174 1     NONE
114 0175 1
115 0176 1 ! ROUTINE VALUE:
116 0177 1
117 0178 1     NONE
118 0179 1
119 0180 1 ! SIDE EFFECTS:
120 0181 1
121 0182 1     Opens standard files INPUT or OUTPUT if not already open.
122 0183 1     Turns off RAB$V_NLK which might have been set by PASSGET_UNLOCK
123 0184 1
124 0185 1 ! SIGNALLED ERRORS:
125 0186 1
126 0187 1     FILNOTOPE - file not open
127 0188 1     FILNOTINS - file not in Inspection mode
128 0189 1
129 0190 1 ! --
130 0191 1
131 0192 2     BEGIN
132 0193 2
133 0194 2     LOCAL
134 0195 2     FCB: REF $PASSFCB_CONTROL_BLOCK, ! File control block
135 0196 2     PFV_ADDR: VOLATILE, ! Enable argument
136 0197 2     UNWIND_ACT: VOLATILE, ! Enable argument
137 0198 2     ERROR_ADDR: VOLATILE; ! Enable argument
138 0199 2

```

```

139 0200 2 BIND
140 0201 2 RAB = FCB: REF BLOCK [, BYTE]; ! RAB is FCB
141 0202 2
142 0203 2 BUILTIN
143 0204 2 ACTUALCOUNT,
144 0205 2 TESTBITSS;
145 0206 2
146 0207 2 ENABLE
147 0208 2 PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);
148 0209 2
149 0210 2 IF ACTUALCOUNT () GEQU 2
150 0211 2 THEN
151 0212 2 ERROR_ADDR = .ERROR; ! Set unwind address
152 0213 2
153 0214 2 !+
154 0215 2 ! Set PFV address enable argument.
155 0216 2 !-
156 0217 2
157 0218 2 PFV_ADDR = PFV [PFV$R_PFV];
158 0219 2
159 0220 2 !+
160 0221 2 ! Validate and lock PFV
161 0222 2 !-
162 0223 2
163 0224 2 PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
164 0225 2
165 0226 2 !+
166 0227 2 ! Set unwind action to unlock file.
167 0228 2 !-
168 0229 2
169 0230 2 UNWIND_ACT = PASS$K_UNWIND_UNLOCK;
170 0231 2
171 0232 2 !+
172 0233 2 ! Resolve lazy lookahead, if any. Also may open INPUT or OUTPUT.
173 0234 2 !-
174 0235 2
175 0236 2 IF NOT .PFV [PFV$V_VALID]
176 0237 2 THEN
177 0238 2 PASS$LOOK_AHEAD (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
178 0239 2
179 0240 2 !+
180 0241 2 ! Verify that the file is open.
181 0242 2 !-
182 0243 2
183 0244 2 IF NOT .PFV [PFV$V_OPEN]
184 0245 2 THEN
185 0246 2 $PASS$IO_ERROR (PASS$_FILNOTOPE,0);
186 0247 2
187 0248 2 !+
188 0249 2 ! Verify that we are in Inspection mode
189 0250 2 !-
190 0251 2
191 0252 2 IF NOT .FCB [FCB$V_INSPECTION]
192 0253 2 THEN
193 0254 2 $PASS$IO_ERROR (PASS$_FILNOTINS,0);
194 0255 2
195 0256 2 !+

```

PASSGET
1-002

GET procedure
PASSGET - GET procedure

L 12
16-Sep-1984 01:37:43
14-Sep-1984 12:51:30

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[PASRTL.SRC]PASGET.B32;1

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PA
Ta

```

: 196 0257 2      ! Turn off RAB$V_NLK.
: 197 0258 2      !-
: 198 0259 2      !-
: 199 0260 2      RAB [RAB$V_NLK] = 0;
: 200 0261 2      !-
: 201 0262 2      !+
: 202 0263 2      ! Do the GET
: 203 0264 2      !-
: 204 0265 2      !-
: 205 0266 2      PASS$GET (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
: 206 0267 2      !-
: 207 0268 2      !+
: 208 0269 2      ! Indicate successful completion
: 209 0270 2      ! Unlock the file
: 210 0271 2      !-
: 211 0272 2      !-
: 212 0273 2      FCB [FCB$L_STATUS] = 0;
: 213 0274 2      PFV [PFV$V_LOCK] = 0;
: 214 0275 2      !-
: 215 0276 2      RETURN;
: 216 0277 2      !-
: 217 0278 1      END;

```

! End of routine PASSGET

```

.TITLE PASSGET GET procedure
.IDENT \1-002\

.EXTRN PASSGET, PASSGET_UNLOCK
.EXTRN PASS$GET, PASS$IO_HANDLER
.EXTRN PASS$VALIDATE_PFV
.EXTRN PASS$LOOK_AHEAD
.EXTRN PASS$SIGNAL, PASSK_FILNOTOPE
.EXTRN PASSK_FILNOTINS

```

.PSECT _PASSCODE, NOWRT, SHR, PIC, 2

			00CC 0000	.ENTRY PASSGET, Save R2,R3,R6,R7	: 0144
	5E		08 C2 00002	SUBL2 #8, SP	: 0192
		04	7E D4 00005	CLRL ERROR_ADDR	: 0210
	6D	0056	AE 7C 00007	CLRQ UNWIND_ACT	: 0212
	02		6C 91 0000A	MOVAL 6\$, (FP)	: 0218
			04 1F 00012	CMPB (AP), #2	: 0224
	6E	08	04 1F 00012	BLSSU 1\$: 0230
	56	04	AC D0 00014	MOVL ERROR, ERROR_ADDR	: 0236
08	AE		AC D0 00018 1\$:	MOVL PFV, R6	: 0244
			56 D0 0001C	MOVL R6, PFV_ADDR	: 0246
	04	00000000G	00 16 00020	JSB PASS\$VALIDATE_PFV	: 0252
	06		01 D0 00026	MOVL #1, UNWIND_ACT	: 0254
		06	A6 E8 0002A	BLBS 6(R6), 2\$: 0252
08	07	00000000G	00 16 0002E 2\$:	JSB PASS\$LOOK_AHEAD	: 0254
			05 E0 00034	BBS #5, 7(R6), 3\$: 0252
			7E D4 00039	CLRL -(SP)	: 0254
	7E	00G	8F 9A 0003B	MOVZBL #PASSK_FILNOTOPE, -(SP)	: 0252
			0B 11 0003F	BRB 4\$: 0254
0E	FD	A7	03 E0 00041 3\$:	BBS #3, -3(FCB), 5\$: 0252
			7E D4 00046	CLRL -(SP)	: 0254
	7E	00G	8F 9A 00048	MOVZBL #PASSK_FILNOTINS, -(SP)	: 0254

PASSGET
1-002

GET procedure
PASSGET - GET procedure

M 12
16-Sep-1984 01:37:43 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:51:30 [PASRTL.SRC]PASGET.B32;1

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PA'
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00000000G	00		02	FB	0004C	4\$:	CALLS	#2, PASS\$SIGNAL	:
					04	00053	RET		:
	06	A7			10	8A	00054	5\$:	:
					30	00058	BSBW	PASS\$GET	:
			D4	A7	D4	0005B	CLRL	-44(FCB)	:
	07	A6	80	8F	8A	0005E	BICB2	#128, 7(R6)	:
					04	00063	RET		:
					0000	00064	6\$:	.WORD	Save nothing
	50		08	AC	D0	00066	MOVL	8(AP), R0	:
	50		04	A0	D0	0006A	MOVL	4(R0), R0	:
			F4	A0	9F	0006E	PUSHAB	ERROR_ADDR	:
			F8	A0	9F	00071	PUSHAB	UNWIND_ACT	:
			FC	A0	9F	00074	PUSHAB	PFV_ADDR	:
					03	DD	00077	PUSHL	#3
					5E	DD	00079	PUSHL	SP
	7E		04	AC	7D	0007B	MOVQ	4(AP), -(SP)	:
00000000G	00				03	FB	0007F	CALLS	#3, PASS\$IO_HANDLER
					04	00086	RET		:

0260
0266
0273
0274
0278
0192

: Routine Size: 135 bytes, Routine Base: _PASSCODE + 0000

: 218 0279 1
: 219 0280 1 !<BLF/PAGE>


```

221 0281 1 %SBTTL 'PASSGET_UNLOCK - GET procedure with UNLOCK'
222 0282 1 GLOBAL ROUTINE PASSGET_UNLOCK (
223 0283 1     PFV: REF $PASS$PFV_FILE_VARIABLE,           ! File variable
224 0284 1     ERROR                                     ! Unwind address if error
225 0285 1 ): NOVALUE =
226 0286 1
227 0287 1 !++
228 0288 1 ! FUNCTIONAL DESCRIPTION:
229 0289 1 !
230 0290 1 !     PASSGET_UNLOCK is called by the compiled code when a READ is
231 0291 1 !     done for a non-textfile. It does the equivalent of a GET followed
232 0292 1 !     by an UNLOCK. What it actually does is set RAB$V_NLK which will
233 0293 1 !     cause the next $GET to not lock the record. This bit is reset by
234 0294 1 !     PASS$FIND2, PASS$FINDK, PASS$GET, PASS$RESET and PASS$RESETK and
235 0295 1 !     PASS$REWRITE2, which are the only procedures
236 0296 1 !     which do $GETs on non-textfiles. It doesn't matter for textfiles
237 0297 1 !     since they may only be sequential organization.
238 0298 1 !
239 0299 1 ! CALLING SEQUENCE:
240 0300 1 !
241 0301 1 !     CALL PASSGET_UNLOCK (PFV.mr.r [, ERROR.j.r])
242 0302 1 !
243 0303 1 ! FORMAL PARAMETERS:
244 0304 1 !
245 0305 1 !     PFV           - The Pascal File Variable (PFV) passed by reference.
246 0306 1 !                   The structure of the PFV is defined in PASPFV.REQ.
247 0307 1 !
248 0308 1 !     ERROR        - Optional. If specified, the address to unwind to
249 0309 1 !                   if an error occurs.
250 0310 1 !
251 0311 1 ! IMPLICIT INPUTS:
252 0312 1 !
253 0313 1 !     NONE
254 0314 1 !
255 0315 1 ! IMPLICIT OUTPUTS:
256 0316 1 !
257 0317 1 !     NONE
258 0318 1 !
259 0319 1 ! ROUTINE VALUE:
260 0320 1 !
261 0321 1 !     NONE
262 0322 1 !
263 0323 1 ! SIDE EFFECTS:
264 0324 1 !
265 0325 1 !     Opens standard files INPUT or OUTPUT if not already open.
266 0326 1 !
267 0327 1 ! SIGNALLED ERRORS:
268 0328 1 !
269 0329 1 !     FILNOTOPE - file not open
270 0330 1 !     FILNOTINS - file not in Inspection mode
271 0331 1 !
272 0332 1 ! --
273 0333 1 !
274 0334 2 ! BEGIN
275 0335 2 !
276 0336 2 ! LOCAL
277 0337 2 !     FCB: REF $PASS$FCB_CONTROL_BLOCK,           ! File control block

```

```

278 0338 2          PFV_ADDR: VOLATILE,          ! Enable argument
279 0339 2          UNWIND_ACT: VOLATILE,       ! Enable argument
280 0340 2          ERROR_ADDR: VOLATILE;       ! Enable argument
281 0341 2
282 0342 2          BIND
283 0343 2          RAB = FCB: REF BLOCK [, BYTE]; ! RAB is FCB address
284 0344 2
285 0345 2          BUILTIN
286 0346 2          ACTUALCOUNT,
287 0347 2          TESTBITSS;
288 0348 2
289 0349 2          ENABLE
290 0350 2          PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);
291 0351 2
292 0352 2          IF ACTUALCOUNT () GEQU 2
293 0353 2          THEN
294 0354 2          ERROR_ADDR = .ERROR;          ! Set unwind address
295 0355 2
296 0356 2          !+
297 0357 2          ! Set PFV address enable argument.
298 0358 2          !-
299 0359 2
300 0360 2          PFV_ADDR = PFV [PFV$R_PFV];
301 0361 2
302 0362 2          !+
303 0363 2          ! Validate and lock PFV
304 0364 2          !-
305 0365 2
306 0366 2          PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
307 0367 2
308 0368 2          !+
309 0369 2          ! Set unwind action to unlock file.
310 0370 2          !-
311 0371 2
312 0372 2          UNWIND_ACT = PASS$K_UNWIND_UNLOCK;
313 0373 2
314 0374 2          !+
315 0375 2          ! Resolve lazy lookahead, if any. Also may open INPUT or OUTPUT.
316 0376 2          !-
317 0377 2
318 0378 2          IF NOT .PFV [PFV$V_VALID]
319 0379 2          THEN
320 0380 2          PASS$LOOK_AHEAD (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
321 0381 2
322 0382 2          !+
323 0383 2          ! Verify that the file is open.
324 0384 2          !-
325 0385 2
326 0386 2          IF NOT .PFV [PFV$V_OPEN]
327 0387 2          THEN
328 0388 2          $PASS$IO_ERROR (PASS$_FILNOTOPE,0);
329 0389 2
330 0390 2          !+
331 0391 2          ! Verify that we are in Inspection mode
332 0392 2          !-
333 0393 2
334 0394 2          IF NOT .FCB [FCB$V_INSPECTION]

```

```

: 335 0395 2 THEN
: 336 0396 2 $PASSIO_ERROR (PASS_FILNOTINS,0);
: 337 0397 2
: 338 0398 2 !+
: 339 0399 2 ! If this is not a textfile, set RAB$V_NLK.
: 340 0400 2 !-
: 341 0401 2
: 342 0402 2 IF NOT .FCB [FCB$V_TEXT]
: 343 0403 2 THEN
: 344 0404 2 RAB [RAB$V_NLK] = 1;
: 345 0405 2
: 346 0406 2 !+
: 347 0407 2 ! Do the GET
: 348 0408 2 !-
: 349 0409 2
: 350 0410 2 PASS$GET (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
: 351 0411 2
: 352 0412 2 !+
: 353 0413 2 ! Indicate successful completion
: 354 0414 2 ! Unlock the file
: 355 0415 2 !-
: 356 0416 2
: 357 0417 2 FCB [FCB$L_STATUS] = 0;
: 358 0418 2 PFV [PFV$V_LOCK] = 0;
: 359 0419 2
: 360 0420 2 RETURN;
: 361 0421 2
: 362 0422 1 END;

```

! End of routine PASSGET_UNLOCK

			00CC 00000	.ENTRY	PASSGET_UNLOCK, Save R2,R3,R6,R7	: 0282
	5E		08 C2 00002	SUBL2	#8, SP	: 0334
			7E D4 00005	CLRL	ERROR_ADDR	
		04	AE 7C 00007	CLRQ	UNWIND_ACT	
	6D	005A	CF DE 0000A	MOVAL	7\$, (FP)	
	02		6C 91 0000F	CMPB	(AP), #2	: 0352
			04 1F 00012	BLSSU	1\$	
	6E	08	AC D0 00014	MOVL	ERROR, ERROR_ADDR	: 0354
	56	04	AC D0 00018	MOVL	PFV, R6	: 0360
08	AE		56 D0 0001C	MOVL	R6, PFV_ADDR	
		00000000G	00 16 00020	JSB	PASS\$VACIDATE_PFV	: 0366
	04		01 D0 00026	MOVL	#1, UNWIND_ACT	: 0372
	06	06	A6 E8 0002A	BLBS	6(R6), 2\$: 0378
		00000000G	00 16 0002E	JSB	PASS\$LOOK_AHEAD	: 0380
08	07	A6	05 E0 00034	BBS	#5, 7(R6), 3\$: 0386
			7E D4 00039	CLRL	-(SP)	: 0388
	7E	00G	8F 9A 0003B	MOVZBL	#PASSK_FILNOTOPE, -(SP)	
			0B 11 0003F	BRB	4\$	
0E	FD	A7	03 E0 00041	BBS	#3, -3(FCB), 5\$: 0394
			7E D4 00046	CLRL	-(SP)	: 0396
	7E	00G	8F 9A 00048	MOVZBL	#PASSK_FILNOTINS, -(SP)	
	00000000G	00	02 FB 0004C	CALLS	#2, PASS\$SIGNAL	
			04 00053	RET		
	04	F8 A7	E8 00054	BLBS	-8(FCB), 6\$: 0402

PASSGET
1-002

GET procedure
PASSGET_UNLOCK - GET procedure with UNLOCK

D 13
16-Sep-1984 01:37:43
14-Sep-1984 12:51:30

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASGET.B32;1

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06	A7		1C 88 00058	BISB2	#16, 6(FCB)	:	0404
			0000V 70 0005C 6\$:	BSBW	PASSGET	:	0410
		D4	A7 04 0005F	CLRL	-4(FCB)	:	0417
07	A6	80	8F JA 00062	BICB2	#128, 7(R6)	:	0418
			04 00067	RET		:	0422
			0000 00068 7\$:	.WORD	Save nothing	:	0334
	50	08	AC D0 0006A	MOVL	8(AP), R0	:	
	50	04	A0 D0 0006E	MOVL	4(R0), R0	:	
		F4	A0 9F 00072	PUSHAB	ERROR_ADDR	:	
		F8	A0 9F 00075	PUSHAB	UNWIND_ACT	:	
		FC	A0 9F 00078	PUSHAB	PFV_ADDR	:	
			03 DD 0007B	PUSHL	#3	:	
			5E DD 0007D	PUSHL	SP	:	
	7E	04	AC 7D 0007F	MOVQ	4(AP), -(SP)	:	
00000000G	00		03 FB 00083	CALLS	#3, PASSIO_HANDLER	:	
			04 0008A	RET		:	

: Routine Size: 139 bytes, Routine Base: _PASSCODE + 0087

: 363 0423 1
: 364 0424 1 !<BLF/PAGE>

```

366 0425 1 %SBTTL 'PASSGET - Internally callable GET'
367 0426 1 GLOBAL ROUTINE PASSGET (           ! Do a GET
368 0427 1     PFV: REF $PASSPFV_FILE VARIABLE, ! File variable
369 0428 1     FCB: REF $PASSFCB_CONTROL_BLOCK ! Control Block
370 0429 1 ): JSB_GET NOVALUE =
371 0430 1
372 0431 1 !++
373 0432 1 ! FUNCTIONAL DESCRIPTION:
374 0433 1
375 0434 1     PASSGET implements the VAX-11 Pascal GET procedure. It
376 0435 1     reads a record from the file and places its contents in
377 0436 1     the file buffer.
378 0437 1
379 0438 1 ! CALLING SEQUENCE:
380 0439 1
381 0440 1     JSB PASSGET (PFV.mr.r, FCB.mr.r)
382 0441 1
383 0442 1 ! FORMAL PARAMETERS:
384 0443 1
385 0444 1     PFV           - The Pascal File Variable (PFV) passed by reference.
386 0445 1                 The structure of the PFV is defined in PASPFV.REQ.
387 0446 1
388 0447 1     FCB           - The File Control Block for the file.
389 0448 1
390 0449 1 ! IMPLICIT INPUTS:
391 0450 1
392 0451 1     It is assumed that the file is open, is in inspection mode and is locked.
393 0452 1     It is assumed that lazy lookahead is not in progress.
394 0453 1
395 0454 1 ! IMPLICIT OUTPUTS:
396 0455 1
397 0456 1     NONE
398 0457 1
399 0458 1 ! ROUTINE VALUE:
400 0459 1
401 0460 1     NONE
402 0461 1
403 0462 1 ! SIDE EFFECTS:
404 0463 1
405 0464 1     NONE
406 0465 1
407 0466 1 ! SIGNALLED ERRORS:
408 0467 1
409 0468 1     FAIGETLOC - failed to GET locked component
410 0469 1     GETAFTEOF - GET attempted after end-of-file
411 0470 1     ERRDURGET - error during GET
412 0471 1
413 0472 1 !--
414 0473 1
415 0474 2     BEGIN
416 0475 2
417 0476 2     LOCAL
418 0477 2     STATUS;
419 0478 2
420 0479 2     BIND
421 0480 2     RAB = FCB: REF BLOCK [, BYTE];
422 0481 2

```

```

423 0482 2      !+
424 0483 2      ! Set initial conditions of PFV flags
425 0484 2      !-
426 0485 2
427 0486 2      PFV [PFV$V_DFB] = 0;      ! Buffer undefined
428 0487 2      PFV [PFV$V_EOF_DEFINED] = 1; ! EOF defined after GET
429 0488 2
430 0489 2      !+
431 0490 2      ! If EOF is true, then signal an error.
432 0491 2      !-
433 0492 2
434 0493 2      IF .FCB [FCB$V_EOF]
435 0494 2      THEN
436 0495 2          $PASSIO_ERROR (PASS_GETAFTEOF,0);
437 0496 2
438 0497 2      !+
439 0498 2      ! GET from a textfile is different...
440 0499 2      !-
441 0500 2
442 0501 2      IF .FCB [FCB$V_TEXT]
443 0502 2      THEN
444 0503 2          BEGIN
445 0504 2              !+
446 0505 2              ! Are we already at end-of-line? If so, set lazy-lookahead
447 0506 2              !-
448 0507 2              IF .PFV [PFV$V_EOLN]
449 0508 2              THEN
450 0509 2                  BEGIN
451 0510 2                      FCB [FCB$V_LAZY] = 1;
452 0511 2                      PFV [PFV$V_VALID] = 0;
453 0512 2                      RETURN;
454 0513 2                  END;
455 0514 2
456 0515 2      !+
457 0516 2      ! Advance current record pointer
458 0517 2      !-
459 0518 2
460 0519 2      FCB [FCB$A_RECORD_CUR] = .FCB [FCB$A_RECORD_CUR] + 1;
461 0520 2
462 0521 2      !+
463 0522 2      ! Are we now at end-of-line?
464 0523 2      !-
465 0524 2
466 0525 2      IF .FCB [FCB$A_RECORD_CUR] GEQA .FCB [FCB$A_RECORD_END]
467 0526 2      THEN
468 0527 2          BEGIN
469 0528 2              !+
470 0529 2              ! At end-of-line. Set EOL, move a blank to user buffer.
471 0530 2              !-
472 0531 2
473 0532 2              PFV [PFV$V_EOLN] = 1;
474 0533 2              CH$WCHAR (%C' ', .PFV [PFV$A_BUFFER]);
475 0534 2              END
476 0535 2          ELSE
477 0536 2              !+
478 0537 2              ! Otherwise move new character to user buffer
479 0538 2              !-

```

```

480 0539 3
481 0540      CH$WCHAR (..FCB [FCB$A_RECORD_CUR], .PFV [PFV$A_BUFFER]);
482 0541
483 0542      !+
484 0543      ! Mark buffer and PFV as valid and return immediately.
485 0544      !-
486 0545
487 0546      PFV [PFV$V_VALID] = 1;
488 0547      PFV [PFV$V_DFB] = 1;
489 0548      RETURN;
490 0549      END;
491 0550
492 0551      !+
493 0552      ! Not textfile, call RMS to get a record.
494 0553      !-
495 0554
496 0555      RAB [RAB$B_RAC] = RAB$C_SEQ;      ! Set sequential access mode
497 0556      STATUS = $PASSRMS_OP ($GET (RAB=.RAB));
498 0557
499 0558      !+
500 0559      ! If varying, put component length in first word of user buffer.
501 0560      ! Do this before we check for errors!
502 0561      !-
503 0562
504 0563      IF .FCB [FCB$V_VARYING]
505 0564      THEN
506 0565          (.PFV [PFV$A_BUFFER])<0,16,0> = .RAB [RAB$W_RSZ];
507 0566
508 0567      !+
509 0568      ! Turn off RAB$V_NLK now just to make sure we don't have problems
510 0569      ! later on.
511 0570      !-
512 0571
513 0572      RAB [RAB$V_NLK] = 0;
514 0573
515 0574      IF NOT .STATUS
516 0575      THEN
517 0576          BEGIN
518 0577              !+
519 0578              ! $GET failed. If RMSS_EOF, simply set EOF condition. Otherwise,
520 0579              ! signal an error.
521 0580              !-
522 0581              IF .RAB [RAB$L_STS] EQLU RMSS_EOF
523 0582              THEN
524 0583                  FCB [FCB$V_EOF] = 1
525 0584              ELSE IF .RAB [RAB$L_STS] EQLU RMSS_RLK
526 0585              THEN
527 0586                  $PASSIO_ERROR (PASS_FAIGETLOC)      ! Failed to GET locked component
528 0587              ELSE
529 0588                  $PASSIO_ERROR (PASS_ERRDURGET);
530 0589              PFV [PFV$V_DFB] = 0;
531 0590              END
532 0591          ELSE
533 0592              BEGIN
534 0593                  FCB [FCB$V_EOF] = 0;
535 0594                  PFV [PFV$V_DFB] = 1;
536 0595              END;

```

: 537
: 538
: 539
: 540

0596 2
0597 2 RETURN;
0598 2
0599 1 END;

. End of routine PASSGET

.EXTRN PASSK_GETAFTEOF
.EXTRN SYSSGET, PASSK_FAIGETLOC
.EXTRN PASSK_ERRDURGET

		52	04	A6	9E	00000	PASSGET::			
							MOVAB	4(PFV), R2		: 0486
		02			02	8A	BICB2	#2, 2(R2)		
		02			04	88	BISB2	#4, 2(R2)		: 0487
					FC	A7	MOVAB	-4(FCB), R3		: 0493
						0D	BBC	#13, (R3), 1\$		
OE						7E	CLRL	-(SP)		: 0495
						8F	MOVZBL	#PASSK_GETAFTEOF, -(SP)		
		00000000G			00G	02	CALLS	#2, PASS\$SIGNAL		
						05	RSB			
						05	BLBC	-8(FCB), 5\$: 0501
						13	BBC	#19, (R2), 2\$: 0507
09						04	BISB2	#4, 1(R3)		: 0510
		01				01	BICB2	#1, 2(R2)		: 0511
		02				05	RSB			: 0509
						05	INCL	-20(FCB)		: 0519
						05	CMPL	-20(FCB), -16(FCB)		: 0525
						0A	BLSSU	3\$		
						08	BISB2	#8, 2(R2)		: 0532
						20	MOVB	#32, @0(PFV)		: 0533
						05	BRB	4\$: 0540
						05	MOVB	@-20(FCB), @0(PFV)		
						01	BISB2	#1, 2(R2)		: 0546
						62	BRB	14\$: 0547
						01	CLRB	30(FCB)		: 0555
						57	PUSHL	FCB		: 0556
		00000000G				01	CALLS	#1, SYSSGET		
						50	BLBS	\$\$\$STATUS, 7\$		
		0001825A				50	CMPL	\$\$\$STATUS, #98906		
						04	BNEQ	7\$		
						04	BLBS	3(R3), 6\$		
						03	BBC	#2, -8(FCB), 8\$: 0563
						02	MOVW	34(FCB), @0(PFV)		: 0565
05						02	BICB2	#16, 6(FCB)		: 0572
						10	BLBS	STATUS, 13\$: 0574
						50	CMPL	8(FCB), #98938		: 0581
						08	BNEQ	9\$		
						06	BISB2	#32, 1(R3)		: 0583
						20	BRB	12\$		
						1C	CMPL	8(FCB), #98986		: 0584
						08	BNEQ	10\$		
		000182AA				08	MOVZBL	#PASSK_FAIGETLOC, -(SP)		: 0586
						06	BRB	11\$		
						07	MOVZBL	#PASSK_ERRDURGET, -(SP)		: 0588
						06	CALLS	#1, PASS\$SIGNAL		
						07	RSB			
						01				
						05				

PASSGET
1-002

GET procedure
PASSGET - Internally callable GET

1 13
16-Sep-1984 01:37:43
14-Sep-1984 12:51:30

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASGET.B32;1

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PA
2-

02	A2	02	8A 000AB	12\$:	BICB2	#2, 2(R2)
			05 000AF		RSB	
01	A3	20	8A 000B0	13\$:	BICB2	#32, 1(R3)
02	A2	02	88 000B4	14\$:	BISB2	#2, 2(R2)
			05 000B8		RSB	

: 0589
: 0574
: 0593
: 0594
: 0599

; Routine Size: 185 bytes, Routine Base: _PASSCODE + 0112

: 541 0600 1
: 542 0601 1 !<BLF/PAGE>

PASSGET
1-002

GET procedure
PASSGET - Internally callable GET

J 13
16-Sep-1984 01:37:43 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:51:30 [PASRTL.SRC]PASGET.B32;1

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: 544 0602 1 END
: 545 0603 1
: 546 0604 0 ELUDOM

! End of module PASSGET

PSECT SUMMARY

Name	Bytes	Attributes
_PASSCODE	459	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	12	0	581	00:01.0
\$_255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	98	22	33	00:00.4

COMMAND QUALIFIERS

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

: Size: 459 code + 0 data bytes
: Run Time: 00:11.4
: Elapsed Time: 00:39.4
: Lines/CPU Min: 3181
: Lexemes/CPU-Min: 19359
: Memory Used: 109 pages
: Compilation Complete

