


```

PPPPPPPP      AAAAAA      SSSSSSSS      RRRRRRRR      EEEEEEEEEE      SSSSSSSS      EEEEEEEEEE      TTTTTTTTTT      KK      KK
PPPPPPPP      AAAAAA      SSSSSSSS      RRRRRRRR      EEEEEEEEEE      SSSSSSSS      EEEEEEEEEE      TTTTTTTTTT      KK      KK
PP      PP      AA      AA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      PP      AA      AA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      PP      AA      AA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PPPPPPPP      AA      AA      SSSSSS      RRRRRRRR      EEEEEEEE      SSSSSS      EEEEEEEE      TT      KKKKKK
PPPPPPPP      AA      AA      SSSSSS      RRRRRRRR      EEEEEEEEE      SSSSSS      EEEEEEEEE      TT      KKKKKK
PP      AAAAAAAAAA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      AAAAAAAAAA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      AA      AA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      AA      AA      SS      RR      RR      EE      SS      EE      TT      KK      KK
PP      AA      AA      SSSSSSSS      RR      RR      EEEEEEEEEE      SSSSSSSS      EEEEEEEEEE      TT      KK      KK
PP      AA      AA      SSSSSSSS      RR      RR      EEEEEEEEEE      SSSSSSSS      EEEEEEEEEE      TT      KK      KK

```

```

LL      !IIIII      SSSSSSSS
LL      !IIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      !I      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      !IIIII      SSSSSSSS
LLLLLLLLLLLL      !IIIII      SSSSSSSS

```

```

1 0001 0 MODULE PASSRESETK ( %TITLE 'RESETK procedure'
2 0002 0 IDENT = '1-001' ! File: PASRESETK.B32 Edit: SBL1001
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 PASSRESETK, which implements the
36 0036 1 VAX-11 Pascal RESETK procedure.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 16-February-1982
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 16-February-1982
45 0045 1 --
46 0046 1
    
```

```
.. 48      0047 1 %SBTTL 'Declarations'  
.. 49      0048 1 |  
.. 50      0049 1 | PROLOGUE DEFINITIONS:  
.. 51      0050 1 |  
.. 52      0051 1 |  
.. 53      0052 1 REQUIRE 'RTLIN:PASPROLOG';           ! Externals, Linkages, PSECTs, structures  
.. 54      0116 1 |  
.. 55      0117 1 |  
.. 56      0118 1 | TABLE OF CONTENTS:  
.. 57      0119 1 |  
.. 58      0120 1 |  
.. 59      0121 1 FORWARD ROUTINE  
.. 60      0122 1   PASSRESETK: NOVALUE;           ! Do a RESETK  
.. 61      0123 1 |  
.. 62      0124 1 |  
.. 63      0125 1 | MACROS:  
.. 64      0126 1 |  
.. 65      0127 1 |   NONE  
.. 66      0128 1 |  
.. 67      0129 1 | EQUATED SYMBOLS:  
.. 68      0130 1 |  
.. 69      0131 1 |   NONE  
.. 70      0132 1 |  
.. 71      0133 1 | FIELDS:  
.. 72      0134 1 |  
.. 73      0135 1 |   NONE  
.. 74      0136 1 |  
.. 75      0137 1 | OWN STORAGE:  
.. 76      0138 1 |  
.. 77      0139 1 |   NONE  
.. 78      0140 1 |
```

```

80 0141 1 %SBTTL 'PASSRESETK - RESETK procedure'
81 0142 1 GLOBAL ROUTINE PASSRESETK (
82 0143 1     PFV: REF $PASSPFV FILE_VARIABLE,           ! File variable
83 0144 1     KEY_NUMBER: REF VECTOR-[ , LONG],       ! Key number
84 0145 1     ERROR                                     ! Unwind address if error
85 0146 1 ): NOVALUE =
86 0147 1
87 0148 1 ++
88 0149 1 FUNCTIONAL DESCRIPTION:
89 0150 1
90 0151 1     PASSRESETK implements the VAX-11 Pascal RESETK procedure. It
91 0152 1     rewinds the indexed file to the beginning of the specified index.
92 0153 1
93 0154 1 CALLING SEQUENCE:
94 0155 1
95 0156 1     CALL PASSRESETK (PFV.mr.r, KEY_NUMBER.rl.r [, ERROR.j.r])
96 0157 1
97 0158 1 FORMAL PARAMETERS:
98 0159 1
99 0160 1     PFV           - The Pascal File Variable (PFV) passed by reference.
100 0161 1                The structure of the PFV is defined in PASSESV.REQ.
101 0162 1
102 0163 1     KEY_NUMBER  - The number of the key to rewind on.
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     Places file in Inspection mode
122 0183 1
123 0184 1 SIGNALLED ERRORS:
124 0185 1
125 0186 1     FILNOTOPE - File not open
126 0187 1     FILNOTKEY - File not opened for keyed access
127 0188 1     KEYNOTDEF - Key 'n' is not defined for this file
128 0189 1     ERRDURRES - Error during RESET or RESETK
129 0190 1
130 0191 1
131 0192 1 --
132 0193 1
133 0194 2 BEGIN
134 0195 2
135 0196 2 LOCAL
136 0197 2     FCB: REF $PASSFCB_CONTROL_BLOCK,           ! File control block

```

```

137 0198 2          STATUS,          ! Status from $REWIND
138 0199 2          PFV_ADDR: VOLATILE, ! Enable argument
139 0200 2          UNWIND_ACT: VOLATILE, ! Enable argument
140 0201 2          ERROR_ADDR: VOLATILE; ! Enable argument
141 0202 2
142 0203 2
143 0204 2          BIND          ! RMS RAB
144 0205 2          RAB = FCB: REF BLOCK [, BYTE];
145 0206 2          BUILTIN
146 0207 2          ACTUALCOUNT;
147 0208 2
148 0209 2          ENABLE
149 0210 2          PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT , ERROR_ADDR);
150 0211 2
151 0212 2          IF ACTUALCOUNT () GEQU 3
152 0213 2          THEN
153 0214 2          ERROR_ADDR = .ERROR;          ! Set unwind address
154 0215 2
155 0216 2          !+
156 0217 2          ! Set PFV address enable argument.
157 0218 2          !-
158 0219 2
159 0220 2          PFV_ADDR = PFV [PFV$R_PFV];
160 0221 2
161 0222 2          !+
162 0223 2          ! Validate and lock PFV
163 0224 2          !-
164 0225 2
165 0226 2          PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
166 0227 2
167 0228 2          !+
168 0229 2          ! Set unwind action to unlock file.
169 0230 2          !-
170 0231 2
171 0232 2          UNWIND_ACT = PAS$K_UNWIND_UNLOCK;
172 0233 2
173 0234 2          !+
174 0235 2          ! Open file if it should be implicitly opened.
175 0236 2          !-
176 0237 2
177 0238 2          IF NOT .PFV [PFV$V_VALID]
178 0239 2          THEN
179 0240 2          PASS$OPEN_IMPLICIT (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
180 0241 2
181 0242 2          !+
182 0243 2          ! Verify that the file is open.
183 0244 2          !-
184 0245 2
185 0246 2          IF NOT .PFV [PFV$V_OPEN]
186 0247 2          THEN
187 0248 2          $PASS$IO_ERROR (PASS$_FILNOTOPE,0);
188 0249 2
189 0250 2          !+
190 0251 2          ! Verify that the file is opened for keyed access
191 0252 2          !-
192 0253 2
193 0254 2          IF NOT .FCB [FCB$V_KEYED]

```

```

: 194 0255 2 THEN
: 195 0256 2 $PASSIO_ERROR (PASS_FILNOTKEY,0);
: 196 0257 2
: 197 0258 2 !+
: 198 0259 2 ! Verify that the key number is valid for the file.
: 199 0260 2 !-
: 200 0261 2
: 201 0262 2 IF .KEY_NUMBER [0] GEQU .FCB [FCB$L_NKEYS]
: 202 0263 2 THEN
: 203 0264 2 $PASSIO_ERROR (PASS_KEYNOTDEF,1,.KEY_NUMBER [0]);
: 204 0265 2
: 205 0266 2 !+
: 206 0267 2 ! Set the key number and do a $REWIND.
: 207 0268 2 !-
: 208 0269 2
: 209 0270 2 RAB [RAB$B_KRF] = .KEY_NUMBER [0]; ! Set key number
: 210 0271 2 PFV [PFV$V_DFB] = 0; ! Undefine file buffer
: 211 0272 2 FCB [FCB$V_EOF] = 0; ! Not (yet) at EOF
: 212 0273 2
: 213 0274 2 STATUS = $PASSRMS OP ($REWIND (RAB=.RAB));
: 214 0275 2 IF NOT .STATUS AND (.STATUS NEQ RMSS_BOF) AND (.STATUS NEQ RMSS_EOF)
: 215 0276 2 THEN
: 216 0277 2 $PASSIO_ERROR (PASS_ERRDURRES); ! Error during RESET or RESETK
: 217 0278 2
: 218 0279 2
: 219 0280 2 !+
: 220 0281 2 ! Do a GET.
: 221 0282 2 !-
: 222 0283 2
: 223 0284 2 PASS$GET (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
: 224 0285 2
: 225 0286 2 !+
: 226 0287 2 ! Set Inspection mode
: 227 0288 2 ! Indicate successful completion
: 228 0289 2 ! Unlock the file
: 229 0290 2 !-
: 230 0291 2
: 231 0292 2 FCB [FCB$V_INSPECTION] = 1;
: 232 0293 2 FCB [FCB$V_GENERATION] = 0;
: 233 0294 2 FCB [FCB$L_STATUS] = 0;
: 234 0295 2 PFV [PFV$V_LOCK] = 0;
: 235 0296 2
: 236 0297 2 RETURN;
: 237 0298 2
: 238 0299 1 END;

```

! End of routine PASSRESETK

```

.TITLE PASSRESETK RESETK procedure
.IDENT \1-001\

```

```

.EXTRN PASSRESETK, PASS$IO_HANDLER
.EXTRN PASS$VALIDATE_PFV
.EXTRN PASS$OPEN_IMPLICIT
.EXTRN PASS$SIGNAL, PASSK_FILNOTOPE
.EXTRN PASSK_FILNOTKEY
.EXTRN PASSK_KEYNOTDEF
.EXTRN SYS$REWIND, PASSK_ERRDURRES

```

				.EXTRN	PASS\$GET				
				.PSECT	_PASS\$CODE,NOWRT, SHR, PIC,2				
				.ENTRY	PASS\$RESETK, Save R2,R3,R4,R5,R6,R7	0142			
	55	00000000G	00	00FC	00000	MOVAB	PASS\$\$SIGNAL, R5	0194	
	5E		08	9E	00002	SUBL2	#8, SP		
			7E	D4	0000C	CLRL	ERROR_ADDR	0212	
		04	AE	7C	0000E	CLRQ	UNWIND_ACT		
	6D	00B3	CF	DE	00011	MOVAL	10\$, (FP)		
	03		6C	91	00016	CMPB	(AP), #3	0214	
			04	1F	00019	BLSSU	1\$	0220	
	6E	0C	AC	DO	0001B	MOVL	ERROR, ERROR_ADDR		
	56	04	AC	DO	0001F	1\$:	MOVL	PFV, R6	
08	AE		56	DO	00023	MOVL	R6, PFV_ADDR	0226	
		00000000G	00	16	00027	JSB	PASS\$VALIDATE_PFV	0232	
04	AE		01	DO	0002D	MOVL	#1, UNWIND_ACT	0238	
	06	06	A6	E8	00031	BLBS	6(R6), 2\$	0240	
08	07	00000000G	00	16	00035	JSB	PASS\$OPEN_IMPLICIT	0246	
			05	E0	0003B	2\$:	BBS	#5, 7(R6), 3\$	
			7E	D4	00040	CLRL	-(SP)	0248	
	7E	00G	8F	9A	00042	MOVZBL	#PASSK_FILNOTOPE, -(SP)		
			0E	11	00046	BRB	4\$	0254	
0A	54	FC	A7	9E	00048	3\$:	MOVAB	-4(FCB), R4	
	64		02	E0	0004C	BBS	#2, (R4), 5\$	0256	
			7E	D4	00050	CLRL	-(SP)		
	7E	00G	8F	9A	00052	MOVZBL	#PASSK_FILNOTKEY, -(SP)		
	65		02	FB	00056	4\$:	CALLS	#2, PASS\$\$SIGNAL	
			04	00059		RET			
	DO	A7	08	BC	D1	0005A	5\$:	CMPL	@KEY_NUMBER, -48(FCB)
			0D	1F	0005F	BLSSU	6\$	0262	
			08	BC	DD	00061	PUSHL	@KEY_NUMBER	0264
			01	DD	00064	PUSHL	#1		
	7E	00G	8F	9A	00066	MOVZBL	#PASSK_KEYNOTDEF, -(SP)		
	65		03	FB	0006A	CALLS	#3, PASS\$\$SIGNAL		
			04	0006D		RET			
	35	A7	08	BC	90	0006E	6\$:	MOVB	@KEY_NUMBER, 53(FCB)
	06	A6	02	8A	00073	BICB2	#2, 8(R6)	0270	
	01	A4	20	8A	00077	BICB2	#3, 1(R4)	0271	
			57	DD	0007B	7\$:	PUSHL	FCB	
00000000G	00		01	FB	0007D	CALLS	#1, SYSS\$REWIND	0272	
0001825A	2A		50	E8	00084	BLBS	\$\$STATUS, 9\$	0274	
	8F		50	D1	00087	CMPL	\$\$STATUS, #98906		
			04	12	0008E	BNEQ	8\$		
	E7	03	A4	E8	00090	BLBS	3(R4), 7\$		
00018198	1A		50	E8	00094	8\$:	BLBS	STATUS, 9\$	
	8F		50	D1	00097	CMPL	STATUS, #98712	0275	
			11	13	0009E	BEQL	9\$		
0001827A	8F		50	D1	000A0	CMPL	STATUS, #98938		
			08	13	000A7	BEQL	9\$		
	7E	00G	8F	9A	000A9	MOVZBL	#PASSK_ERRDURRES, -(SP)	0277	
	65		01	FB	000AD	CALLS	#1, PASS\$\$SIGNAL		
			04	000B0		RET			
		00000000G	00	16	000B1	9\$:	JSB	PASS\$GET	
01	A4		08	88	000B7	BISB2	#8, 1(R4)	0284	
01	A4		10	8A	000BB	BICB2	#16, 1(R4)	0292	
		D4	A7	D4	000BF	CLRL	-44(FCB)	0293	

PASSRESETK
1-001

RESETK procedure
PASSRESETK - RESETK procedure

L 16
16-Sep-1984 02:06:18
14-Sep-1984 12:51:54

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

Page 7
(3)

07	A6	80	8F	8A	000C2	BICB2	#128, 7(R6)
				04	000C7	RET	
			0000	000C8	10\$:	.WORD	Save nothing
	50	08	AC	D0	000CA	MOVL	8(AP), R0
	50	04	A0	D0	000CE	MOVL	4(R0), R0
		F4	A0	9F	000D2	PUSHAB	ERROR_ADDR
		F8	A0	9F	000D5	PUSHAB	UNWIND_ACT
		FC	A0	9F	000D8	PUSHAB	PFV_ADDR
			03	DD	000DB	PUSHL	#3
			5E	DD	000DD	PUSHL	SP
	7E	04	AC	7D	000DF	MOVQ	4(AP), -(SP)
00000000G	00		03	FB	000E3	CALLS	#3, PASS\$IO_HANDLER
			04	000EA	RET		

: 0295
: 0299
: 0194
: .
: .
: .
: .
: .
: .
: .
: .

: Routine Size: 235 bytes, Routine Base: _PASSCODE + 0000

: 239 0300 1
: 240 0301 1 !<BLF/PAGE>

PASS\$RESETK
1-001

RESETK procedure
PASS\$RESETK - RESETK procedure

M 16
16-Sep-1984 02:06:18
14-Sep-1984 12:51:54

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

Page 8
(4)

: 242 0302 1 END
: 243 0303 1
: 244 0304 0 ELUDOM

! End of module PASS\$RESETK

PSECT SUMMARY

Name Bytes Attributes
_PASS\$CODE 235 NOVEC,NOWRT, RD , EYE, 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	8	0	581	00:01.0
_\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	96	22	33	00:00.4

COMMAND QUALIFIERS

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

: Size: 235 code + 0 data bytes
: Run Time: 00:06.8
: Elapsed Time: 00:25.8
: Lines/CPU Min: 2698
: Lexemes/CPU-Min: 16136
: Memory Used: 103 pages
: Compilation Complete

