

```

PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      RRRRRRRRRRRR      TTTTTTTTTTTTTT      LLL
PPPPPPPPPPPPPP    AAAAAAAAAA      SSSSSSSSSSSS      RRRRRRRRRRRR      TTTTTTTTTTTTTT      LLL
PPPPPPPPPPPPPP    AAAAAAAAAA      SSSSSSSSSSSS      RRRRRRRRRRRR      TTTTTTTTTTTTTT      LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPP              PPP  AAA          AAA  SSS              RRR              RRR              TTT              LLL
PPPPPPPPPPPPPP    AAA          AAA          SSSSSSSSSS      RRRRRRRRRRRR      TTT              LLL
PPPPPPPPPPPPPP    AAA          AAA          SSSSSSSSSS      RRRRRRRRRRRR      TTT              LLL
PPPPPPPPPPPPPP    AAA          AAA          SSSSSSSSSS      RRRRRRRRRRRR      TTT              LLL
PPP              AAAAAAAAAAAAAAAAAA          SSS              RRR      RRR              TTT              LLL
PPP              AAAAAAAAAAAAAAAAAA          SSS              RRR      RRR              TTT              LLL
PPP              AAAAAAAAAAAAAAAAAA          SSS              RRR      RRR              TTT              LLL
PPP              AAA          AAA          SSS              RRR              RRR      RRR              TTT              LLL
PPP              AAA          AAA          SSS              RRR              RRR              TTT              LLL
PPP              AAA          AAA          SSS              RRR              RRR              TTT              LLL
PPP              AAA          AAA          SSS              RRR              RRR              TTT              LLL
PPP              AAA          AAA          SSSSSSSSSSSS      RRR              RRR              TTT              LLLLLLLLLLLLLLLLLL
PPP              AAA          AAA          SSSSSSSSSSSS      RRR              RRR              TTT              LLLLLLLLLLLLLLLLLL
PPP              AAA          AAA          SSSSSSSSSSSS      RRR              RRR              TTT              LLLLLLLLLLLLLLLLLL

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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 PAS$RESETK ( %TITLE 'RESETK procedure'
2 0002 0 IDENT = '1-001' ! File: PASRESETK.B32 Edit: SBL1001
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: Pascal Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains PAS$RESETK, 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
```

PASSRESETK
1-001

RESETK procedure
Declarations

G 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

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```
: 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 'PAS$RESETK - RESETK procedure'
81 0142 1 GLOBAL ROUTINE PAS$RESETK (
82 0143 1     PFV: REF $PASSPFV FILE_VARIABLE,
83 0144 1     KEY_NUMBER: REF VECTOR-[ , LONG],
84 0145 1     ERROR
85 0146 1 ): NOVALUE =
86 0147 1
87 0148 1 ++
88 0149 1 FUNCTIONAL DESCRIPTION:
89 0150 1
90 0151 1     PAS$RESETK 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 PAS$RESETK (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 PASPFV.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
```

PASSRESETK
1-001

RESETK procedure
PASSRESETK - RESETK procedure

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

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

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```

: 137      0198      2      STATUS,
: 138      0199      2      PFV_ADDR: VOLATILE,
: 139      0200      2      UNWIND_ACT: VOLATILE,
: 140      0201      2      ERROR_ADDR: VOLATILE;
: 141      0202      2
: 142      0203      2      BIND
: 143      0204      2      RAB = FCB: REF BLOCK [, BYTE];
: 144      0205      2
: 145      0206      2      BUILTIN
: 146      0207      2      ACTUALCOUNT;
: 147      0208      2
: 148      0209      2      ENABLE
: 149      0210      2      PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT , ERROR_ADDR);
: 150      0211      2
: 151      0212      2      IF ACTUALCOUNT () GEQU 3
: 152      0213      2      THEN
: 153      0214      2      ERROR_ADDR = .ERROR;
: 154      0215      2
: 155      0216      2      !+
: 156      0217      2      ! Set PFV address enable argument.
: 157      0218      2      !-
: 158      0219      2
: 159      0220      2      PFV_ADDR = PFV [PFV$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 = PASS$K_UNWIND_UNLOCK;
: 172      0233      2
: 173      0234      2      !+
: 174      0235      2      ! Open file if it should be implicitly opened.
: 175      0236      2      !-
: 176      0237      2
: 177      0238      2      IF NOT .PFV [PFV$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]
```


PASSRESETK
1-001

RESETK procedure
PASSRESETK - RESETK procedure

J 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

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(3)

```

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 $REWIND.
207 0268 2 !-
208 0269 2
209 0270 2 RAB [RAB$_KRF] = .KEY_NUMBER [0];
210 0271 2 PFV [PFV$_DFB] = 0;
211 0272 2 FCB [FCB$_EOF] = 0;
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$GET (PFV [PFV$_PFV], FCB [FCB$_FCB]);
224 0285 2
225 0286 2 !+
226 0287 2 ! Set Inspection mode
227 0288 2 ! Indicate successful completion
228 0289 2 ! Unlock the file
229 0290 2 !-
230 0291 2
231 0292 2 FCB [FCB$_INSPECTION] = 1;
232 0293 2 FCB [FCB$_GENERATION] = 0;
233 0294 2 FCB [FCB$_STATUS] = 0;
234 0295 2 PFV [PFV$_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 SYSSREWIND, 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	00FC 00000	MOVAB	PASS\$SIGNAL, R5	
	5E		08 C2 00009	SUBL2	#8, SP	0194
		04	7E D4 0000C	CLRL	ERROR_ADDR	
	6D	00B3	AE 7C 0000E	CLRQ	UNWIND_ACT	0212
	03		CF DE 00011	MOVAL	10\$, (FP)	
			6C 91 00016	CMPB	(AP), #3	0214
	6E	0C	04 1F 00019	BLSSU	1\$	0220
	56	04	AC D0 0001B	MOVL	ERROR, ERROR_ADDR	
08	AE		AC D0 0001F 1\$:	MOVL	PFV, R6	
			56 D0 00023	MOVL	R6, PFV_ADDR	0226
	04	00000000G	00 16 00027	JSB	PASS\$VALIDATE_PFV	0232
	06	06	01 D0 0002D	MOVL	#1, UNWIND_ACT	0238
08	07	00000000G	A6 E8 00031	BLBS	6(R6), 2\$	0240
			00 16 00035	JSB	PASS\$OPEN_IMPLICIT	0246
			05 E0 0003B 2\$:	BBS	#5, 7(R6), 3\$	0248
	7E	00G	7E D4 00040	CLRL	-(SP)	
	54	FC	8F 9A 00042	MOVZBL	#PASS\$K_FILNOTOPE, -(SP)	0254
0A	64		0E 11 00046	BRB	4\$	
			A7 9E 00048 3\$:	MOVAB	-4(FCB), R4	0256
	7E	00G	02 E0 0004C	BBS	#2, (R4), 5\$	
	65		7E D4 00050	CLRL	-(SP)	
			8F 9A 00052	MOVZBL	#PASS\$K_FILNOTKEY, -(SP)	0262
	D0	A7	02 FB 00056 4\$:	CALLS	#2, PASS\$SIGNAL	
			04 00059	RET		0264
		08	BC D1 0005A 5\$:	CMPL	@KEY_NUMBER, -48(FCB)	
			0D 1F 0005F	BLSSU	6\$	
		08	BC DD 00061	PUSHL	@KEY_NUMBER	0270
			01 DD 00064	PUSHL	#1	0271
	7E	00G	8F 9A 00066	MOVZBL	#PASS\$K_KEYNOTDEF, -(SP)	0272
	65		03 FB 0006A	CALLS	#3, PASS\$SIGNAL	0274
			04 0006D	RET		
	35	A7	BC 90 0006E 6\$:	MOVB	@KEY_NUMBER, 53(FCB)	
	06	A6	02 8A 00073	BICB2	#2, 6(R6)	0275
	01	A4	20 8A 00077	BICB2	#32, 1(R4)	
			57 DD 0007B 7\$:	PUSHL	FCB	
00000000G	00		01 FB 0007D	CALLS	#1, SYSS\$REWIND	
0001825A	2A		50 E8 00084	BLBS	\$\$STATUS, 9\$	
	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	0277
			11 13 0009E	BEQL	9\$	
0001827A	8F		50 D1 000A0	CMPL	STATUS, #98938	
			08 13 000A7	BEQL	9\$	
	7E	00G	8F 9A 000A9	MOVZBL	#PASS\$K_ERRDURRES, -(SP)	0284
	65		01 FB 000AD	CALLS	#1, PASS\$SIGNAL	0292
			04 000B0	RET		0293
		00000000G	00 16 000B1 9\$:	JSB	PASS\$GET	0294
01	A4		08 88 000B7	BISB2	#8, 1(R4)	
01	A4		10 8A 000BB	BICB2	#16, 1(R4)	
		D4	A7 D4 000BF	CLRL	-44(FCB)	


```

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

```

PASSRESETK
1-001

RESETK procedure
PASSRESETK - 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

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(4)

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

! End of module PASSRESETK

PSECT SUMMARY

Name	Bytes	Attributes
_PASSCODE	235	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	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

0296

AH-BT13A-SE
VAX/VMS V4.0

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