

```

PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      RRRRRRRRRRRR      TTTTTTTTTTTTTT      LLL
PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      RRRRRRRRRRRR      TTTTTTTTTTTTTT      LLL
PPPPPPPPPPPP      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
PPPPPPPPPPPP      AAA              AAA              SSSSSSSSSS      RRRRRRRRRRRR      TTT              LLL
PPPPPPPPPPPP      AAA              AAA              SSSSSSSSSS      RRRRRRRRRRRR      TTT              LLL
PPPPPPPPPPPP      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              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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52

Sym

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TABLE 1

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```
PPPPPPPP      AAAAAA      SSSSSSSS      RRRRRRRR      EEEEEEEEEE      AAAAAA      BBBB BBBB      000000      000000
PPPPPPPP      AAAAAA      SSSSSSSS      RRRRRRRR      EEEEEEEEEE      AAAAAA      BBBB BBBB      000000      000000
PP      PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PP      PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PP      PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PP      PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PPPPPPPP      AA      AA      SSSSSS      RRRRRRRR      EEEEEEEE      AA      AA      BBBB BBBB      00      00      00      00
PPPPPPPP      AA      AA      SSSSSS      RRRRRRRR      EEEEEEEE      AA      AA      BBBB BBBB      00      00      00      00
PP      AAAAAAAAAA      SS      RR      RR      EE      AAAAAAAAAA      BB      BB      00      00      00      00
PP      AAAAAAAAAA      SS      RR      RR      EE      AAAAAAAAAA      BB      BB      00      00      00      00
PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PP      AA      AA      SS      RR      RR      EE      AA      AA      BB      BB      00      00      00      00
PP      AA      AA      SSSSSSSS      RR      RR      EEEEEEEEEE      AA      AA      BBBB BBBB      000000      000000
PP      AA      AA      SSSSSSSS      RR      RR      EEEEEEEEEE      AA      AA      BBBB BBBB      000000      000000
```

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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
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```



```
1 0001 0 MODULE PASSREAD_BOOLEAN ( %TITLE 'Read a boolean'
2 0002 0 IDENT = '1-001' ! File: PASREAB00.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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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 procedures which read a boolean
36 0036 1 from a textfile or a string.
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 --
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     PASS$READ_BOOLEAN,           ! Read from textfile
: 61      0123 1     PASS$READV_BOOLEAN;          ! Read from string
: 62      0124 1
: 63      0125 1
: 64      0126 1 MACROS:
: 65      0127 1
: 66      0128 1     NONE
: 67      0129 1
: 68      0130 1 EQUATED SYMBOLS:
: 69      0131 1
: 70      0132 1     NONE
: 71      0133 1
: 72      0134 1 FIELDS:
: 73      0135 1
: 74      0136 1     NONE
: 75      0137 1
: 76      0138 1 OWN STORAGE.
: 77      0139 1
: 78      0140 1
: 79      0141 1 +
: 80      0142 1 Declare our own Pascal Enumerated Type Descriptor (PETD) for the BOOLEAN
: 81      0143 1 type. This will be passed to PASS$READ_ENUMERATED.
: 82      0144 1 -
: 83      0145 1
: 84      0146 1 GLOBAL
: 85      0147 1     PASS$GR_BOOLEAN_PETD: VECTOR [4, LONG] PSECT (_PASS$CODE) INITIAL (
: 86      0148 1
: 87      0149 1         (UPLIT BYTE (%ASCIC'BOOLEAN') - PASS$GR_BOOLEAN_PETD), ! Name of type
: 88      0150 1         2, ! Count of values
: 89      0151 1         (UPLIT BYTE (%ASCIC'FALSE') - PASS$GR_BOOLEAN_PETD), ! Value FALSE = 0
: 90      0152 1         (UPLIT BYTE (%ASCIC'TRUE') - PASS$GR_BOOLEAN_PETD)); ! Value TRUE = 1
: 91      0153 1

```

```
93 0154 1 %SBTTL 'PASSREAD_BOOLEAN - Read a boolean from textfile'
94 0155 1 GLOBAL ROUTINE PASSREAD_BOOLEAN (
95 0156 1   PFV: REF $PASSPFV_FILE_VARIABLE,      ! File variable
96 0157 1   ERROR                                ! Error unwind address
97 0158 1   ) =
98 0159 1
99 0160 1 !++
100 0161 1 FUNCTIONAL DESCRIPTION:
101 0162 1
102 0163 1   This function reads a boolean from the specified textfile
103 0164 1   and returns it as the function value.
104 0165 1
105 0166 1 CALLING SEQUENCE:
106 0167 1
107 0168 1   BOOLEAN.wv.v = PASSREAD_BOOLEAN (PFV.mr.r [, ERROR.ja.r])
108 0169 1
109 0170 1 FORMAL PARAMETERS:
110 0171 1
111 0172 1   PFV          - The Pascal File Variable (PFV) passed by reference.
112 0173 1                 The structure of the PFV is defined in PASPFV.REQ.
113 0174 1
114 0175 1   ERROR       - Optional. If specified, the address to unwind to
115 0176 1                 in case of an error.
116 0177 1
117 0178 1 IMPLICIT INPUTS:
118 0179 1
119 0180 1   NONE
120 0181 1
121 0182 1 IMPLICIT OUTPUTS:
122 0183 1
123 0184 1   NONE
124 0185 1
125 0186 1 ROUTINE VALUE:
126 0187 1
127 0188 1   The value of the boolean read.
128 0189 1
129 0190 1 SIDE EFFECTS:
130 0191 1
131 0192 1   If the file is the standard file INPUT or OUTPUT, it is implicitly opened.
132 0193 1
133 0194 1 SIGNALLED ERRORS:
134 0195 1
135 0196 1
136 0197 1 --
137 0198 1
138 0199 2 BEGIN
139 0200 2
140 0201 2 LOCAL
141 0202 2   PFV_ADDR: VOLATILE,      ! Enable argument
142 0203 2   UNWIND_ACT: VOLATILE, ! Enable argument
143 0204 2   ERROR_ADDR: VOLATILE; ! Enable argument
144 0205 2
145 0206 2 BUILTIN
146 0207 2   ACTUALCOUNT;          ! Count of arguments
147 0208 2
148 0209 2 ENABLE
149 0210 2   PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR); ! Enable error handler
```



```

150      0211 2
151      0212 2
152      0213 2
153      0214 2
154      0215 2
155      0216 2
156      0217 2
157      0218 2
158      0219 2
159      0220 2
160      0221 2
161      0222 2
162      0223 2
163      0224 2
164      0225 2
165      0226 2
166      0227 2
167      0228 2
168      0229 2
169      0230 2
170      0231 3
171      0232 2
172      0233 2
173      0234 2
174      0235 1

!+ Get ERROR parameter, if present.
!-

IF ACTUALCOUNT () GEQU 2
THEN
    ERROR_ADDR = .ERROR;          ! Set unwind address

!+ Set PFV address.
!-

PFV_ADDR = PFV [PFV$R_PFV];

!+ Call READ_ENUMERATED to do the work.
!-

RETURN (PASS$READ_ENUMERATED (
    PFV [PFV$R_PFV],
    PASS$GR_BOOLEAN_PETD));

END;                                ! End of routine PASS$READ_BOOLEAN

```

										.TITLE	PASS\$READ_BOOLEAN Read a boolean		
										.IDENT	\1-001\		
										.PSECT	_PASS\$CODE, NOWRT, SHR, PIC, 2		
4E	41	45	4C	4F	4F	42	07	00000	P.AAA:	.ASCII	<7>\BOOLEAN\	:	
		45	53	4C	41	46	05	00008	P.AAB:	.ASCII	<5>\FALSE\	:	
			45	55	52	54	04	0000E	P.AAC:	.ASCII	<4>\TRUE\	:	
								00013		.BLKB	1	:	
								00000000*	00014	PASS\$GR_BOOLEAN_PETD::		:	
										.LONG	<P.AAA-PASS\$GR_BOOLEAN_PETD>	:	
								00000002	00018	.LONG	2	:	
								00000000*	00000000*	0001C	.LONG	<P.AAB-PASS\$GR_BOOLEAN_PETD>, <P.AAC--PASS\$GR_BOOLEAN_PETD>	:
										.EXTRN	PASS\$READ_BOOLEAN		
										.EXTRN	PASS\$READ_BOOLEAN		
										.EXTRN	PASS\$IO_HANDLER		
										.EXTRN	PASS\$READ_ENUMERATED		
								0000	00000	.ENTRY	PASS\$READ_BOOLEAN, Save nothing		: 0155
	5E				08	C2	00002			SUBL2	#8, SP	:	
					7E	D4	00005			CLRL	ERROR_ADDR	: 0199	
				04	AE	7C	00007			CLRQ	UNWIND_ACT	:	
	6D		001D		CF	DE	0000A			MOVAL	2\$, (FP)	:	
	02				6C	91	0000F			CMPB	(AP), #2	: 0216	
					04	1F	00012			BLSSU	1\$	:	
	6E			08	AC	D0	00014			MOVL	ERROR, ERROR_ADDR	: 0218	
08	AE			04	AC	D0	00018	1\$:		MOVL	PFV, PFV_ADDR	: 0224	
				D0	AF	9F	0001D			PUSHAB	PASS\$GR_BOOLEAN_PETD	: 0231	

00000000G	00	04	AC	DD	00020	PUSHL	PFV	
			02	FB	00023	CALLS	#2, PASSREAD_ENUMERATED	
				04	0002A	RET		
				0000	0002B	2\$:		
	50	08	AC	DD	0002D	.WORD	Save nothing	
	50	04	A0	DD	00031	MOVL	8(AP), R0	
		F4	A0	9F	00035	MOVL	4(R0), R0	
		F8	A0	9F	00038	PUSHAB	ERROR_ADDR	
		FC	A0	9F	0003B	PUSHAB	UNWIND_ACT	
			03	DD	0003E	PUSHAB	PFV_ADDR	
			5E	DD	00040	PUSHL	#3	
	7E	04	AC	7D	00042	PUSHL	SP	
00000000G	00		03	FB	00046	MOVQ	4(AP), -(SP)	
			04	0004D		CALLS	#3, PASS\$IO_HANDLER	
						RET		

; Routine Size: 78 bytes, Routine Base: _PAS\$CODE + 0024

; 175 0236 1
; 176 0237 1 !<BLF/PAGE>


```

178 0238 1 %SBTTL 'PASS$READV_BOOLEAN - Read a boolean from a string'
179 0239 1 GLOBAL ROUTINE PASS$READV_BOOLEAN (
180 0240 1     STRING: REF BLOCK [, BYTE],
181 0241 1     ERROR
182 0242 1 ) =
183 0243 1
184 0244 1 !++
185 0245 1 !FUNCTIONAL DESCRIPTION:
186 0246 1
187 0247 1     This function reads a boolean from the specified string
188 0248 1     and returns it as the function value.
189 0249 1
190 0250 1 !CALLING SEQUENCE:
191 0251 1
192 0252 1     Boolean.wv.v = PASS$READV_BOOLEAN (STRING.mt.ds [, ERROR.ja.r])
193 0253 1
194 0254 1 !FORMAL PARAMETERS:
195 0255 1
196 0256 1     STRING
197 0257 1         - The string to read from, passed as a class S
198 0258 1         (assumed) descriptor. The length and pointer
199 0259 1         are updated to reflect the unread string.
200 0260 1
201 0261 1     ERROR
202 0262 1         - Optional. If specified, the address to unwind to
203 0263 1         in case of an error.
204 0264 1
205 0265 1 !IMPLICIT INPUTS:
206 0266 1
207 0267 1     NONE
208 0268 1
209 0269 1 !IMPLICIT OUTPUTS:
210 0270 1
211 0271 1     NONE
212 0272 1
213 0273 1 !ROUTINE VALUE:
214 0274 1
215 0275 1     The value of the boolean read.
216 0276 1
217 0277 1 !SIDE EFFECTS:
218 0278 1
219 0279 1     NONE
220 0280 1
221 0281 1 !SIGNALLED ERRORS:
222 0282 1
223 0283 1     NONE
224 0284 1 !--
225 0285 2 BEGIN
226 0286 2
227 0287 2 LOCAL
228 0288 2     PFV: $PASS$PFV_FILE_VARIABLE, ! Pascal File Variable
229 0289 2     RESULT, ! Result value
230 0290 2     ARG_LIST: VECTOR [2, LONG], ! Argument list
231 0291 2     PFV_ADDR: VOLATILE, ! Enable argument
232 0292 2     UNWIND_ACT: VOLATILE, ! Enable argument
233 0293 2     ERROR_ADDR: VOLATILE; ! Enable argument
234 0294 2

```



```

: 235      0295 2  BUILTIN
: 236      0296 2  ACTUALCOUNT;          ! Count of arguments
: 237      0297 2
: 238      0298 2  ENABLE
: 239      0299 2  PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);    ! Enable error handler
: 240      0300 2
: 241      0301 2  !+
: 242      0302 2  ! Get ERROR parameter, if present.
: 243      0303 2  !-
: 244      0304 2
: 245      0305 2  IF ACTUALCOUNT () GEQU 2
: 246      0306 2  THEN
: 247      0307 2  ERROR_ADDR = .ERROR;          ! Set unwind address
: 248      0308 2
: 249      0309 2  PFV_ADDR = PFV [PFV$R_PFV];      ! Set PFV address
: 250      0310 2
: 251      0311 2  !+
: 252      0312 2  ! Set up ARG_LIST.
: 253      0313 2  !-
: 254      0314 2
: 255      0315 2  ARG_LIST [0] = 1;          ! One argument
: 256      0316 2  ARG_LIST [1] = PFV [PFV$R_PFV];    ! PFV address
: 257      0317 2
: 258      0318 2  !+
: 259      0319 2  ! Call PASS$DO_READV to do the work, giving it the address of
: 260      0320 2  ! PASS$READ_BOOLEAN to call.
: 261      0321 2  !-
: 262      0322 2
: 263      0323 2  PASS$DO_READV (PFV [PFV$R_PFV], .STRING, ARG_LIST, PASS$READ_BOOLEAN;
: 264      0324 2  RESULT);
: 265      0325 2
: 266      0326 2  RETURN .RESULT;
: 267      0327 2
: 268      0328 1  END;

```

! End of routine PASS\$READV_BOOLEAN

```

                                .EXTRN PASS$DO_READV
                                .ENTRY PASS$READV_BOOLEAN, Save R2,R3,R4,R6
                                SUBL2 #32, SP
                                CLRL ERROR_ADDR
                                CLRQ UNWIND_ACT
                                MOVAL 2$, (FP)
                                CMPB (AP), #2
                                BLSSU 1$
                                MOVL ERROR, ERROR_ADDR
                                MOVAB PFV, PFV_ADDR
                                MOVL #1, ARG_LIST
                                MOVAB PFV, ARG_LIST+4
                                MOVAB PASS$READ_BOOLEAN, R4
                                MOVAB ARG_LIST, R3
                                MOVAB PFV, R6
                                MOVL STRING, R2
                                JSB PASS$DO_READV
                                RET
                                .WORD Save nothing

```

PASS\$READ_BOOLEA
1-001

Read a boolean

PASS\$READV_BOOLEAN - Read a boolean from a strin

J 2
16-Sep-1984 01:52:59
14-Sep-1984 12:51:44

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASREAB00.B32;1

Page 8
(4)

50	08	AC	D0	0003F	MOVL	8(AP), R0
50	04	A0	D0	00043	MOVL	4(R0), R0
	DC	A0	9F	00047	PUSHAB	ERROR_ADDR
	E0	A0	9F	0004A	PUSHAB	UNWIND_ACT
	E4	A0	9F	0004D	PUSHAB	PFV_ADDR
		03	DD	00050	PUSHL	#3
		5E	DD	00052	PUSHL	SP
00000000G	7E	04	AC	7D	MOVQ	4(AP), -(SP)
00		03	FB	00058	CALLS	#3, PASS\$IO_HANDLER
		04	00	0005F	RET	

: Routine Size: 96 bytes, Routine Base: _PASS\$CODE + 0072

: 269 0329 1
: 270 0330 1 !<BLF/PAGE>

PASS\$READ_BOOLEAN

1-001

Read a boolean

PASS\$READV_BOOLEAN - Read a boolean from a strin

K 2

16-Sep-1984 01:52:59

VAX-11 Bliss-32 V4.0-742

Page 9

(5)

272

0331

1

END

273

0332

1

274

0333

0

ELUDOM

! End of module PASS\$READ_BOOLEAN

PSECT SUMMARY

Name

Bytes

Attributes

_PASS\$CODE

210

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

0

0

581

00:01.1

_\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1

427

26

6

33

00:00.4

COMMAND QUALIFIERS

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

)

Size: 174 code + 36 data bytes

Run Time: 00:05.5

Elapsed Time: 00:21.1

Lines/CPU Min: 3645

Lexemes/CPU-Min: 8605

Memory Used: 47 pages

Compilation Complete

0296 AH-BT13A-SE
VAX/VMS V4.0

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