

PPPPPPPPPPPP	AAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
PPPPPPPPPPPP	AAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
PPPPPPPPPPPP	AAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTT	LLL
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPP	PPP	AAA	AAA	SSS	
PPPPPPPPPPPP	AAA	AAA	SSSSSSSS	RRRRRRRRRR	TTT
PPPPPPPPPPPP	AAA	AAA	SSSSSSSS	RRRRRRRRRR	TTT
PPPPPPPPPPPP	AAA	AAA	SSSSSSSS	RRRRRRRRRR	TTT
PPP	AAAAAAAAAAAAAA		SSS	RRR	RRR
PPP	AAAAAAAAAAAAAA		SSS	RRR	RRR
PPP	AAAAAAAAAAAAAA		SSS	RRR	RRR
PPP	AAA	AAA	SSS	RRR	RRR
PPP	AAA	AAA	SSS	RRR	RRR
PPP	AAA	AAA	SSS	RRR	RRR
PPP	AAA	AAA	SSSSSSSSSS	RRR	RRR
PPP	AAA	AAA	SSSSSSSSSS	RRR	RRR
PPP	AAA	AAA	SSSSSSSSSS	RRR	RRR

FILEID**PASLIB

H 3

PPPPPPPP	AAAAAA	SSSSSSSS	LL	I I I I I	BBBBBBBB	
PPPPPPPP	AAAAAA	SSSSSSSS	LL	I I I I I	BBBBBBBB	
PP PP AA	AA	SS	LL	I	BB	
PP PP AA	AA	SS	LL	I	BB	
PP PP AA	AA	SS	LL	I	BB	
PP PP AA	AA	SS	LL	I	BB	
PPPPPPPP	AA	AA	SSSSSS	LL	I	BBBBBBBB
PPPPPPPP	AA	AA	SSSSSS	LL	I	BBBBBBBB
PP	AAAAAAAAAA		SS	LL	I	BB
PP	AAAAAAAAAA		SS	LL	I	BB
PP	AA	AA	SS	LL	I	BB
PP	AA	AA	SS	LL	I	BB
PP	AA	AA	SSSSSSSS	LLLLLLLL	I I I I I	BBBBBBBB
PP	AA	AA	SSSSSSSS	LLLLLLLL	I I I I I	BBBBBBBB

LL	I I I I I	SSSSSSSS
LL	I I I I I	SSSSSSSS
LL	I I	SS
LL	I I	SS
LL	I I	SS
LL	I I	SSSSSS
LL	I I	SSSSSS
LL	I I	SS
LLLLLLLL	I I I I I	SSSSSSSS
LLLLLLLL	I I I I I	SSSSSSSS

```
0001 0 | Pascal Run-Time Library specific macros and symbols
0002 0 | File: PASLIB.REQ, Edit: SBL1002
0003 0 |
0004 0 | ****
0005 0 |
0006 0 | * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0020 0 |
0021 0 | * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0022 0 | * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0023 0 |
0024 0 |
0025 0 | ****
0026 0 |
0027 0 | Author: Steven B. Lionel, 1-April-1981
0028 0 |
0029 0 | 1-001 - Original. SBL 1-April-1981
0030 0 | 1-002 - Reflect new name of FCB structure due to use of fieldsets.
0031 0 | 10-Feb-1983
0032 0 |
0033 0 |
0034 0 | +
0035 0 | This file is the master source for PASLIB.L32.
0036 0 | It REQUIRES all of the .REQ and .B32 files which
0037 0 | comprise PASLIB. This file is then precompiled into PASLIB.L32.
0038 0 |
0039 0 |
0040 0 | SWITCHES ADDRESSING_MODE (EXTERNAL=GENERAL, NONEXTERNAL=WORD_RELATIVE);
0041 0 |
0042 0 | LIBRARY 'RTLSTARLE';                                ! SYS$LIBRARY:STARLET.L32
0043 0 |
0044 0 | REQUIRE 'RTLIN:PASPFV';                            ! Pascal File Variable (PFV$) definitions
```

R0045 0 Pascal File Variable (PFV\$) field definitions
R0046 0 File: PASPFV.REQ, Edit: SBL1001
R0047 0 *****
R0048 0 *
R0049 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0057 0 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
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R0060 0 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
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R0062 0 * CORPORATION.
R0063 0 *
R0064 0 *
R0065 0 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0066 0 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0067 0 *
R0068 0 *
R0069 0 ******
R0070 0 *
R0071 0 Author: Steven B. Lionel, 1-April-1981
R0072 0
R0073 0 1-001 - Original. SBL 1-April-1981
R0074 0 --
R0075 0
R0076 0 +
R0077 0 The Pascal File Variable (PFV) is a dynamically allocated block whose
R0078 0 address is passed to the Run-Time Library to uniquely identify a file.
R0079 0 For more information, see the VAX-11 Language Support Procedures reference
R0080 0 Manual
R0081 0 -
R0082 0
R0083 0 ! PFV structure definition
R0084 0
R0085 0 FIELD
R0086 0 PFV\$FIELDS =
R0087 0 SET
R0088 0
R0089 0 PFV\$R_PFV = [0,0,0,0], ! Field to address the entire structure.
R0090 0
R0091 0 PFV\$A_BUFFER = [0,0,32,0], ! Address of the user file buffer. If
R0092 0 PFV\$V_RELBUF is set, this address is
R0093 0 relative to the PFV address, otherwise
R0094 0 it is absolute.
R0095 0
R0096 0
R0097 0 PFV\$B_VERSION = [4,0,8,0], ! The version number of the PFV layout.
R0098 0 The latest version number is defined by
R0099 0 the symbol PFV\$K_CUR_VERSION.
R0100 0
R0101 0 PFV\$W_FLAGS = [4,16,16,0], ! Status flags which the Run-Time Library

R0102 0			
R0103 0			
R0104 0			
R0105 0	PFV\$V_VALID = [4,16,1,0],		sets and clears to indicate the current status of the file.
R0106 0			
R0107 0			
R0108 0			
R0109 0			
R0110 0			
R0111 0	PFV\$V_DFB = [4,17,1,0],		Buffer is valid. If this bit is set, then the remaining status bits and the file buffer itself may be read by the compiled code. If clear, PASSLOOK_AHEAD must be called to make the information valid.
R0112 0			
R0113 0			
R0114 0			
R0115 0			
R0116 0			
R0117 0	PFV\$V_EOF_DEFINED = [4,18,1,0].		EOF(f) is a valid test. After some file operations, EOF(f) is not a valid test to make. If this bit is set, EOF(f) is true if and only if PASSV_DFB is clear.
R0118 0			
R0119 0			
R0120 0			
R0121 0			
R0122 0	PFV\$V_EOLN = [4,19,1,0],		File is at end-of-line.
R0123 0			
R0124 0	PFV\$V_RELBUF = [4,27,1,0],		PFV\$A BUFFER address is relative to the PFV address. If clear, the address is absolute.
R0125 0			
R0126 0			
R0127 0			
R0128 0	PFV\$V_RELFD = [4,28,1,0],		PFV\$A PFD address is relative to the PFV address. If clear, the address is absolute.
R0129 0			
R0130 0			
R0131 0			
R0132 0	PFV\$V_OPEN = [4,29,1,0],		File is open.
R0133 0			
R0134 0	PFV\$V_FCB_VALID = [4,30,1,0],		This bit is set when PFV\$A_FCB contains the address of a valid FCB. If clear, PFV\$A FCB contains the condition code for the last error to occur on that file.
R0135 0			
R0136 0			
R0137 0			
R0138 0			
R0139 0			
R0140 0	PFV\$V_LOCK = [4,31,1,0],		This is the interlock bit used by the Run-Time Library to prevent recursive I/O on the same file.
R0141 0			
R0142 0			
R0143 0			
R0144 0	PFV\$A_PFD = [8,0,32,0],		Address of the Pascal File Descriptor (PFD). If PFV\$V RELFD is set, this is relative to the PFV address, otherwise it is absolute.
R0145 0			
R0146 0			
R0147 0			
R0148 0			
R0149 0	PFV\$A_FCB = [12,0,32,0],		Address of the Run-Time Library's internal File Control Block (FCB) for this file. This field must be initially zero! the Run-Time Library fills it in when the file is opened.
R0150 0			
R0151 0			
R0152 0			
R0153 0			
R0154 0	PFV\$L_STATUS = [12,0,32,0]		A synonym for PFV\$A_FCB. If PFV\$V_FCB_VALID is clear, this field is used to store the condition code of the last error to occur on this file when the file was not open.
R0155 0			
R0156 0			
R0157 0			
R0158 0			

```
R0159 0
R0160 0
R0161 0
R0162 0
R0163 0
R0164 0
R0165 0
R0166 0
R0167 0
R0168 0
R0169 0

        TES;

LITERAL
    PFV$K_CUR_VERSION = 0;                                ! Current version of PFV
    PFV$K_SIZE         = 16;                               ! Size of PFV in bytes

MACRO
    $PAS$PFV_FILE_VARIABLE = BLOCK [PFV$K_SIZE, BYTE] FIELD (PFV$FIELDS) %;

! End of file PASPV.REQ
```

M 3
16-Sep-1984 01:18:43 VAX-11 Bliss-32 V4.0-742
15-Sep-1984 22:48:34 \$255\$DUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 5
(1)

: 0170 0

REQUIRE 'RTLIN:PASPFD';

: ! Pascal File Descriptor (PFD\$) definitions

R0172 0 Pascal File Descriptor (PFD\$) field definitions
R0173 0 File: PASPFD.REQ, Edit: SBL1002
R0174 0
R0175 0
R0176 0
R0177 0 *****
R0178 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0195 0
R0196 0
R0197 0
R0198 0 Author: Steven B. Lionel, 1-April-1981
R0199 0
R0200 0 1-001 - Original. SBL 1-April-1981
R0201 0 1-002 - Reserve attributes bits 7 and 8 for Elan Pascal. This supersedes
R0202 0 PFD\$V_HEAP which has never been used. SBL 8-Aug-1983
R0203 0
R0204 0
R0205 0
R0206 0 +
R0207 0 The Pascal File Descriptor contains compile-time determinable information
R0208 0 about a VAX-11 Pascal file. For more information, see the VAX-11 Language
R0209 0 Support Procedures Reference Manual.
R0210 0
R0211 0 ! PFD structure definition
R0212 0
R0213 0 FIELD
R0214 0 PFD\$FIELDS =
R0215 0 SET
R0216 0
R0217 0 PFD\$R_PFD = [0,0,0,0], ! Field to address the entire structure.
R0218 0
R0219 0 PFD\$A_KDB = [0,0,32,0], ! Relative pointer to the Key Descriptor
R0220 0 Block (KDB). The address is relative to
R0221 0 the start of the PFD. If zero, there is
R0222 0 no KDB.
R0223 0
R0224 0 PFD\$W_ATTRIB = [4,0,16,0], ! This field contains compile-time determineable
R0225 0 attributes of the file.
R0226 0 PFD\$V_TEXT = [4,0,1,0], ! The file is of type TEXT.
R0227 0 PFD\$V_BINARY = [4,1,1,0], ! The file is of a non-varying binary type.
R0228 0 PFD\$V_VARYING = [4,2,1,0], ! The file is a file of VARYING.

```
R0229 0 PFDSV_NOREAD = [4,3,1,0], | The file variable is declared WRITEONLY.  
R0230 0 PFDSV_NOWRITE = [4,4,1,0], | The file variable is declared READONLY  
R0231 0 PFDSV_EXTERN = [4,5,1,0], | The file is external; i.e. it has been declared  
R0232 0 PFDSV_STATIC = [4,6,1,0], | at the outermost block level.  
R0233 0 | [4,7,1,0], | The file is not declared in a local procedure.  
R0234 0 | [4,8,1,0], | Also used for files allocated with NEW.  
R0235 0 Reserved to VAX Elan Pascal  
R0236 0 Reserved to VAX Elan Pascal  
R0237 0  
R0238 0 PFDSL_LENGTH = [8,0,32,0], | The length of the file component type in bytes.  
R0239 0 | If PFDSV_TEXT is set, PFDSL_LENGTH must be 1.  
R0240 0 | If PFDSV_VARYING is set, this value includes the  
R0241 0 | length word.  
R0242 0  
R0243 0 PFDST_NAME = [12,0,8,0], | A counted ASCII string containing the name of  
R0244 0 | the file variable. The string length is in  
R0245 0 | the first byte.  
R0246 0  
R0247 0 PFDSB_NAME1 = [13,0,8,0], | Byte 1 of file name  
R0248 0 PFDSB_NAME2 = [14,0,8,0], | Byte 2 of file name  
R0249 0 PFDSB_NAME3 = [15,0,8,0], | Byte 3 of file name  
R0250 0 PFDSB_NAME4 = [16,0,8,0], | Byte 4 of file name  
R0251 0 PFDSB_NAME5 = [17,0,8,0], | Byte 5 of file name  
R0252 0 PFDSB_NAME6 = [18,0,8,0], | Byte 6 of file name  
R0253 0 PFDSB_NAME7 = [19,0,8,0], | Byte 7 of file name  
R0254 0 PFDSB_NAME8 = [20,0,8,0], | Byte 8 of file name  
R0255 0  
R0256 0 TES: ! End of PFD  
R0257 0  
R0258 0 LITERAL PFD$K_SIZE = 13; | Base size of PFD in bytes  
R0259 0 | with a zero-length file  
R0260 0 | variable name. A PFD is only  
R0261 0 | allocated in PASS$FV INPUT,  
R0262 0 | PASS$FV OUTPUT, PASS$READV  
R0263 0 | and PASS$WRITEV.  
R0264 0  
R0265 0  
R0266 0  
R0267 0 MACRO $PAS$PFD_FILE_DESCRIPTOR = BLOCK [, BYTE] FIELD (PFD$FIELDS) %;  
R0268 0  
R0269 0  
R0270 0 ! End of file PASPFD.REQ
```

C 4
16-Sep-1984 01:18:43 VAX-11 Bliss-32 V4.0-742
15-Sep-1984 22:48:34 \$255\$DUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 8
(1)

: 0271 0
: 0272 0 REQUIRE 'RTLIN:PASKDB';

: ! Key Descriptor Block (KDB\$) definitions

R0273 0 | Pascal Key Descriptor Block (KDB\$) field definitions
R0274 0 | File: PASKDB.REQ, Edit: SBL1001
R0275 0
R0276 0 *****
R0277 0 *
R0278 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0295 0 *
R0296 0 *
R0297 0 *****
R0298 0
R0299 0 Author: Steven B. Lionel, 1-April-1981
R0300 0
R0301 0 1-001 - Original. SBL 1-April-1981
R0302 0 --
R0303 0
R0304 0 +
R0305 0 | The Key Descriptor Block describes the key fields for a record of an
R0306 0 | indexed organization file.
R0307 0 |-
R0308 0
R0309 0 ! KDB structure definition
R0310 0
R0311 0 FIELD
R0312 0 | KDB\$FIELDS =
R0313 0 | SET
R0314 0
R0315 0 | KDB\$B_COUNT = [0,0,8,0], | Count of key definitions
R0316 0 | to follow.
R0317 0
R0318 0 +
R0319 0 | The following definitions are relative to a single key definition,
R0320 0 | which occupies two longwords.
R0321 0 |-
R0322 0
R0323 0 | KDB\$B_KEY_NUMBER = [0,0,8,0]. | Key number (0=primary)
R0324 0 | KDB\$B_DTYPE = [0,8,8,0]. | Datatype code (DSC\$K_DTYPE_x)
R0325 0 | KDB\$B_SIZE = [0,16,8,0]. | Size of key in bytes
R0326 0 | KDB\$L_OFFSET = [4,0,32,0]. | Offset of key in bytes
R0327 0
R0328 0 | TES; | End of KDB
R0329 0

E 4
16-Sep-1984 01:18:43
15-Sep-1984 22:48:29

VAX-11 Bliss-32 V4.0-742
_ \$255\$DUA28:[PASRTL.SRC]PASKDB.REQ;1

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(1)

: R0330 0
: R0331 0 MACRO
: R0332 0 \$PAS\$KDB_KEY_DESCRIPTOR = BLOCK [, BYTE] FIELD (KDB\$FIELDS) %;
: R0333 0
: R0334 0 ! End of file PASKDB.REQ

F 4
16-Sep-1984 01:18:43 VAX-11 Bliss-32 V4.0-742
15-Sep-1984 22:48:34 \$255\$DUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 11
(1)

: 0335 0
: 0336 0 REQUIRE 'RTLML:PASFCB'; ! File Control Block (FCB\$) definitions

G 4
16-Sep-1984 01:18:43
15-Sep-1984 22:49:09

VAX-11 Bliss-32 V4.0-742
\$255\$DUA28:[PASRTL.OBJ]PASF.CB.R32;1

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(1)

R0337 0 | *****
R0338 0 | Created 15-SEP-1984 22:49:08 by VAX-11 SDL V2.0 Source: 15-SEP-1984 22:48:23 \$255\$DUA28:[PASRTL.SRC]PASF
R0339 0 | *****
R0340 0
R0341 0
R0342 0 *** MODULE \$FCBDEF IDENT 1-006 ***
R0343 0 literal FCB\$K_CC_NULL = 0;
R0344 0 literal FCB\$K_CC_LFNL = 1;
R0345 0 literal FCB\$K_CC_NLCR = 36096;
R0346 0 literal FCB\$K_CC_LFCR = 36097;
R0347 0 literal FCB\$K_BLN = 68;
R0348 0 FIELD FCB_STRUCT\$FIELDSET =
R0349 0 SET
R0350 0 FCB\$L_QUEUE_FLINK = [-68,0,32,0] .
R0351 0 FCB\$L_QUEUE_BLINK = [-64,0,32,0] .
R0352 0 FCB\$L_RECORD_NUMBER = [-56,0,32,0] .
R0353 0 FCB\$A_KEY_TYPES = [-52,0,32,0] .
R0354 0 FCB\$L_NKEYS = [-48,0,32,0] .
R0355 0 FCB\$L_STATUS = [-44,0,32,0] .
R0356 0 FCB\$L_COMPONENT = [-40,0,32,0] .
R0357 0 FCB\$A_PFV = [-36,0,32,0] .
R0358 0 FCB\$L_LINELIMIT = [-32,0,32,0] .
R0359 0 FCB\$A_PFD = [-28,0,32,0] .
R0360 0 FCB\$A_RECORD_BEG = [-24,0,32,0] .
R0361 0 FCB\$A_RECORD_CUR = [-20,0,32,0] .
R0362 0 FCB\$A_RECORD_END = [-16,0,32,0] .
R0363 0 FCB\$L_RECORD_LEN = [-12,0,32,0] .
R0364 0 FCB\$W_ATTRIB = [-8,0,16,0] .
R0365 0 FCB\$V_TEXT = [-8,0,1,0] .
R0366 0 FCB\$V_BINARY = [-8,1,1,0] .
R0367 0 FCB\$V_VARYING = [-8,2,1,0] .
R0368 0 FCB\$V_NOREAD = [-8,3,1,0] .
R0369 0 FCB\$V_NOWRITE = [-8,4,1,0] .
R0370 0 FCB\$V_EXTERN = [-8,5,1,0] .
R0371 0 FCB\$V_STATIC = [-8,6,1,0] .
R0372 0 FCB\$V_HEAP = [-8,7,1,0] .
R0373 0 FCB\$R_ATTRIB_BITS = [-8,0,16,0] .
R0374 0 FCB\$R_ATTRIB_OVERLAP = [-8,0,16,0] .
R0375 0 FCB\$W_PROMPT_CC = [-6,0,16,0] .
R0376 0 FCB\$L_OPTIONS1 = [-4,0,32,0] .
R0377 0 FCB\$V_SEQUENTIAL = [-4,0,1,0] .
R0378 0 FCB\$V_DIRECT = [-4,1,1,0] .
R0379 0 FCB\$V_KEYED = [-4,2,1,0] .
R0380 0 FCB\$V_READ_ONLY = [-4,3,1,0] .
R0381 0 FCB\$V_OLD_FILE = [-4,4,1,0] .
R0382 0 FCB\$V_SAVE = [-4,5,1,0] .
R0383 0 FCB\$V_DELETE = [-4,6,1,0] .
R0384 0 FCB\$V_PRINT = [-4,7,1,0] .
R0385 0 FCB\$V_SUBMIT = [-4,8,1,0] .
R0386 0 FCB\$V_USER_ACTION = [-4,9,1,0] .
R0387 0 FCB\$V_LAZY = [-4,10,1,0] .
R0388 0 FCB\$V_INSPECTION = [-4,11,1,0] .
R0389 0 FCB\$V_GENERATION = [-4,12,1,0] .
R0390 0 FCB\$V_EOF = [-4,13,1,0] .
R0391 0 FCB\$V_PROMPT_ENABLE = [-4,14,1,0] .
R0392 0 FCB\$V_PARTIAL_LINE = [-4,15,1,0] .
R0393 0 FCB\$V_LOCATE = [-4,16,1,0] .

H 4
16-Sep-1984 01:18:43
15-Sep-1984 22:49:09

VAX-11 Bliss-32 V4.0-742

_S255\$DLIA28:[PASRTL.OBJ]PASF.CB.R32;1

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(1)

```
R0394 0      FCBSV DEALLOC = [-4,17,1,0];
R0395 0      FCBSV-DYNAMIC_RSN = [-4,18,1,0];
R0396 0      FCBSV-DYNAMIC-UBF = [-4,19,1,0];
R0397 0      FCBSV-STRING = [-4,20,1,0];
R0398 0      FCBSV-ON QUEUE = [-4,21,1,0];
R0399 0      FCBSV-INDEXED = [-4,22,1,0];
R0400 0      FCBSV-PROMPT ALWAYS = [-4,23,1,0];
R0401 0      FCBSV-FOD = [-4,24,1,0];
R0402 0      FCBSV-INITIATE PROMPT = [-4,25,1,0];
R0403 0      FCBSR OPTIONS1 BITS = [-4,0,32,0];
R0404 0      FCBSR_OPTIONS1_OVERLAP = [-4,0,32,0];
R0405 0      FCBSR_FCB = [0,0,8,1];
R0406 0      TES;
R0407 0      literal FCBSS_FCB_STRUCT = 69;
R0408 0      MACRO FCBSR_FCB_STRUCT = BLOCK [FCBSS_FCB_STRUCT,byte] FIELD (FCB_STRUCT$FIELDSET) %;
```

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```
M 0409 0 MACRO $PAS$FCB_CONTROL_BLOCK = BLOCK [FCB$K_BLN, BYTE]
0410 0   FIELD (FCB_STRUCT$FIELDSET) %;
0411 0
0412 0   !
0413 0   | Number of bytes to allocate for a file control block. Includes FCB, RAB,
0414 0   | FAB and NAM blocks.
0415 0   |
0416 0   LITERAL
0417 0     PAS$K_FILE_DYN_BLN = FCB$K_BLN+RAB$C_BLN+FAB$C_BLN+NAM$C_BLN;
0418 0
0419 0 REQUIRE 'RTLIN:PASOPEDEF';           ! OPEN keyword symbol definitions
```

R0420 0 | PASOPEDEF.REQ - Pascal OPEN keyword value definitions.
R0421 0 | Version 1-003, Edit: SBL1003
R0422 0 |
R0423 0 | *****
R0424 0 | *
R0425 0 | * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0442 0 | *
R0443 0 | *
R0444 0 | *****
R0445 0 |
R0446 0 |
R0447 0 | ! AUTHOR: Steven B. Lionel
R0448 0 |
R0449 0 | ! EDIT HISTORY:
R0450 0 | ! 1-001 - Original. SBL 1-April-1981
R0451 0 | ! 1-002 - Reserve codes 30-37 to Elan Pascal. Get rid of masks, PROMPT
R0452 0 | ! keywords. Add stream recordtypes. SBL 8-Aug-1983
R0453 0 | ! 1-003 - Reserve codes 41-42 to Elan Pascal. SBL 19-Dec-1983
R0454 0 |
R0455 0 | +
R0456 0 | ! Definitions of keyword codes used by PASSOPEN and PASSCLOSE.
R0457 0 | ! Masks are used to indicate that the keyword has already been seen.
R0458 0 | -
R0459 0 |
R0460 0 | LITERAL
R0461 0 | PASSK_OPEKEYLO = 1,
R0462 0 | PASSK_FILE_NAME = 1,
R0463 0 | PASSK_DEFAULT_FILE_NAME = 2,
R0464 0 |
R0465 0 | PASSK_HISTORY = 3,
R0466 0 | PASSK_HISTORY_OLD = 3,
R0467 0 | PASSK_HISTORY_NEW = 4,
R0468 0 | PASSK_HISTORY_UNKNOWN = 5,
R0469 0 | PASSK_HISTORY_READONLY = 6,
R0470 0 |
R0471 0 | PASSK_RECORD_LENGTH = 7,
R0472 0 |
R0473 0 | PASSK_ACCESS_METHOD = 8,
R0474 0 |
R0475 0 | PASSK_ACCESS_METHOD_SEQUENTIAL = 8,

R0477 0	PASSK_ACCESS_METHOD_DIRECT	= 9,
R0478 0	PASSK_ACCESS_METHOD_KEYED	= 10,
R0479 0		
R0480 0	PASSK_RECORD_TYPE	= 11,
R0481 0	PASSK_RECORD_TYPE_FIXED	= 11,
R0482 0	PASSK_RECORD_TYPE_VARIABLE	= 12,
R0483 0	PASSK_RECORD_TYPE_STREAM	= 38,
R0484 0	PASSK_RECORD_TYPE_STREAM_CR	= 39,
R0485 0	PASSK_RECORD_TYPE_STREAM_LF	= 40,
R0486 0		
R0487 0	PASSK_CARRIAGE_CONTROL	= 13,
R0488 0	PASSK_CARRIAGE_CONTROL_LIST	= 13,
R0489 0	PASSK_CARRIAGE_CONTROL_FORTRAN	= 14,
R0490 0	PASSK_CARRIAGE_CONTROL_NONE	= 15,
R0491 0		
R0492 0	PASSK_ORGANIZATION	= 16,
R0493 0	PASSK_ORGANIZATION_SEQUENTIAL	= 16,
R0494 0	PASSK_ORGANIZATION_RELATIVE	= 17,
R0495 0	PASSK_ORGANIZATION_INDEXED	= 18,
R0496 0		
R0497 0	PASSK_DISPOSITION	= 19,
R0498 0	PASSK_DISPOSITION_SAVE	= 19,
R0499 0	PASSK_DISPOSITION_DELETE	= 20,
R0500 0	PASSK_DISPOSITION_PRINT	= 21,
R0501 0	PASSK_DISPOSITION_PRINT_DELETE	= 22,
R0502 0	PASSK_DISPOSITION_SUBMIT	= 23,
R0503 0	PASSK_DISPOSITION_SUBMIT_DELETE	= 24,
R0504 0		
R0505 0	PASSK_ERROR	= 25,
R0506 0		
R0507 0	PASSK_USER_ACTION	= 26,
R0508 0		
R0509 0	PASSK_SHARING	= 27,
R0510 0	PASSK_SHARING_NONE	= 27,
R0511 0	PASSK_SHARING_READONLY	= 28,
R0512 0	PASSK_SHARING_READWRITE	= 29,
R0513 0		
R0514 0		
R0515 0	+ The following keyword values are reserved to VAX Elan Pascal. If any	
R0516 0	of these features are implemented in VAX-11 Pascal, the corresponding	
R0517 0	keyword value should be used.	
R0518 0	-	
R0519 0		
R0520 0	Elan CONNECT CIRCUIT	= 30, Reserved
R0521 0	Elan ACCEPT_CIRCUIT	= 31, Reserved
R0522 0	Elan APPEND	= 32, Reserved
R0523 0	Elan BUFFER_SIZE	= 33, Reserved
R0524 0	Elan CONTIGUOUS	= 34, Reserved
R0525 0	Elan EXTEND_SIZE	= 35, Reserved
R0526 0	Elan FILE_SIZE	= 36, Reserved
R0527 0	Elan TRUNCATE	= 37, Reserved
R0528 0	Elan RECORD_LOCKING	= 41, Reserved
R0529 0	Elan BUFFERING	= 42, Reserved
R0530 0		
R0531 0	PASSK_OPEKEYHI	= PASSK_RECORD_TYPE_STREAM_LF; ! 40
R0532 0		Need only be the highest value
R0533 0		supported by VAX-11 Pascal

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: R0534 0
: R0535 0 ! End of PASOPEDEF.REQ

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: 0536 0
: 0537 0 REQUIRE 'RTLIN:PASMACROS';

! Useful macros

R0538 0 Macros for Pascal Run-Time Library
R0539 0 File: PASMACROS.REQ, Edit: SBL1003
R0540 0
R0541 0 *****
R0542 0 *
R0543 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0560 0 *
R0561 0 *
R0562 0 * *****
R0563 0 *
R0564 0 Author: Steven B. Lionel, 1-April-1981
R0565 0
R0566 0 1-001 - Original. SBL 1-April-1981
R0567 0 1-002 - Change \$PASS\$RMS_OP so that it doesn't loop on RMSS_ACT unless the
R0568 0 file is on a disk device. SBL 29-July-1982
R0569 0 1-003 - Make that a disk or tape device. SBL 29-July-1982
R0570 0 --
R0571 0
R0572 0 +
R0573 0 Macro to signal a Pascal bugcheck.
R0574 0 -
R0575 0
R0576 0 MACRO
MR0577 0 \$PASS\$BUGCHECK (bugname) =
MR0578 0 BEGIN
MR0579 0 PASS\$BUGCHECK (bugname);
MR0580 0 RETURN 0;
R0581 0 END %;
R0582 0
R0583 0 +
R0584 0 Macro to signal an I/O error. The source code specifies the first
R0585 0 message as a PASS\$_xxx symbol. This macro changes it to a PASS\$K_xxx
R0586 0 symbol to result in shorter code. If it is desired to change back,
R0587 0 only this macro need be modified.
R0588 0 -
R0589 0
R0590 0 MACRO
R0591 0
R0592 0 +
R0593 0 Internal macro MOD_SIG_NAME takes as its argument a sequence
R0594 0 of characters which is the exploded PASS\$_xxx signal name and returns

```
: R0595 0      ; the equivalent name PASSK_XXX. It is only used by $PASS$IO_ERROR.  
: R0596 0  
: MR0597 0      MOD_SIG_NAME (cP,cA,cS,c$,c ) =  
: R0598 0          %NAME ('PASSK_',%REMAINING) %,  
: R0599 0  
: MR0600 0      $PASS$IO_ERROR (signame) =  
: MR0601 0          BEGIN  
: MR0602 0              PASS$SIGNAL (PFV [PFV$R_PFV], MOD_SIG_NAME(%EXPLODE(signame))  
: MR0603 0                  %IF %NULL(%REMAINING)  
: MR0604 0                      %THEN  
: MR0605 0                          %ELSE  
: MR0606 0                              %REMAINING  
: MR0607 0                      %FI  
: MR0608 0                  );  
: MR0609 0          RETURN 0;  
: R0610 0      END %;  
: R0611 0  
: R0612 0  
: R0613 0      + Macro to do an RMS operation with retry for RMS$_ACT if a disk or tape device.  
: R0614 0      -  
: R0615 0  
: R0616 0      MACRO  
: MR0617 0          $PASS$RMS_OP (rms_op) =  
: MR0618 0              BEGIN  
: MR0619 0                  LOCAL  
: MR0620 0                      $$STATUS;  
: MR0621 0              DO $$STATUS = (rms_op) UNTIL (.$$STATUS OR (.$$STATUS NEQ RMS$_ACT)  
: MR0622 0                  OR NOT .FCB [FCB$V_FOD]);  
: MR0623 0                  $$STATUS  
: R0624 0              END %;  
: R0625 0  
: R0626 0  
: R0627 0      + Structure definitions used to declare the FAB and NAM as being offset from  
: R0628 0      FCB. To use, make the following declarations:  
: R0629 0  
: R0630 0      BIND  
: R0631 0          FAB = FCB: REF $PASS$FAB_FCB_STRUCT;  
: R0632 0          NAM = FCB: REF $PASS$NAM_FCB_STRUCT;  
: R0633 0  
: R0634 0      -  
: R0635 0  
: R0636 0      STRUCTURE  
: R0637 0          $PASS$FAB_FCB_STRUCT [O, P, S, E] =  
: R0638 0              [FAB$C_B[N]  
: R0639 0                  ($PASS$FAB_FCB_STRUCT+RAB$C_BLN+0)<P,S,E>,  
: R0640 0  
: R0641 0          $PASS$NAM_FCB_STRUCT [O, P, S, E] =  
: R0642 0              [NAM$C_B[N]  
: R0643 0                  ($PASS$NAM_FCB_STRUCT+RAB$C_BLN+FAB$C_BLN+0)<P,S,E>;  
: R0644 0  
: R0645 0      ! End of file PASMACROSREQ
```

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: 0646 0
: 0647 0 REQUIRE 'RTLIN:PASBUGCOD';

! Bugcheck code definitions

R0648 0 | Bugcheck codes for Pascal Run-Time Library
R0649 0 | File: PASBUGCOD.REQ, Edit: SBL1001
R0650 0
R0651 0 *****
R0652 0 *
R0653 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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R0670 0 *
R0671 0 *
R0672 0 *****
R0673 0
R0674 0 Author: Steven B. Lionel, 1-April-1981
R0675 0
R0676 0 1-001 - Original. SBL 1-April-1981
R0677 0 --
R0678 0
R0679 0 +
R0680 0 | Bugcheck codes for PASS\$BUGCHECK. These codes are used as the FAO
R0681 0 | parameter to the PASS_BUGCHECK message when it is signalled.
R0682 0 |-
R0683 0
R0684 0 LITERAL
R0685 0 | BUG_FQNOTINIT = 1, ! File queue not initialized
R0686 0 | ! PASS\$FILE_UTIL
R0687 0 | BUG_FREEVMFAIL = 2, Call to LIB\$FREE_VM failed
R0688 0 | ! PASS\$VM
R0689 0 | BUG_UNWINDFAIL = 3, Call to SUNWIND failed
R0690 0 | ! PASS\$IO_HANDLER
R0691 0 | BUG_BADVMSIZE = 4, GET VM of more than 65535 bytes.
R0692 0 | ! PASS\$VM
R0693 0 | BUG_BADKEYDTP = 5; Bad key datatype from RMS
R0694 0 | ! PASS\$OPEN2
R0695 0
R0696 0 ! End of file PASBUGCOD.REQ

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: 0697 0
: 0698 0 REQUIRE 'RTLIN:PASEXTERN';

: ! Linkage and external declarations

R0699 0
R0700 0
R0701 0
R0702 0
R0703 0
R0704 0
R0705 0
R0706 0
R0707 0
R0708 0
R0709 0
R0710 0
R0711 0
R0712 0
R0713 0
R0714 0
R0715 0
R0716 0
R0717 0
R0718 0
R0719 0
R0720 0
R0721 0
R0722 0
R0723 0
R0724 0
R0725 0
R0726 0
R0727 0
R0728 0
R0729 0
R0730 0
R0731 0
R0732 0
R0733 0
R0734 0
R0735 0
R0736 0
R0737 0
R0738 0
R0739 0

+ LINKAGE and EXTERNAL definitions for VAX-11 Pascal Run-Time Library
File: PASEXTERN.REQ, Edit: SBL1007

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* Edit History:
*
* 1-001 - Created. SBL 1-April-1981
* 1-002 - Add PASS\$SEND READ. SBL 24-May-1982
* 1-003 - Make PASS\$CLOSE NOVALUE. SBL 28-June-1982
* 1-004 - Delete PASSK_INVFIESPE, no longer used. SBL 2-July-1982
* 1-005 - Add the symbol PASS\$VALIDATE PFV END. This is not a routine
* but an address that PASS\$IO_HANDLER uses to see if the PC of
* an access violation was in PASS\$VALIDATE PFV. SBL 14-July-1982
* 1-006 - Add PASS\$GOTO_HANDLER and PASS\$UNWIND_GOTO. SBL 8-Feb-1983
* 1-007 - Add PASS\$AB_KEYWD_NAME_TABLE. SBL 19-Aug-1983
--

```
R0740 0      +  
R0741 0      Define linkages used for internal calls in the Pascal RTL support  
R0742 0      In these linkages, R6 is always used to pass the PFV and R7 is always  
R0743 0      used to pass the FCB.  
R0744 0      -  
R0745 0  
R0746 0  
R0747 0      LINKAGE  
R0748 0      JSB_INIT_WRITE =  
R0749 0      JSB TREGISTER=6, REGISTER=7; REGISTER=7:  
R0750 0      NOTUSED(8,9,10,11) NOPRESERVE(2,3,4,5),  
R0751 0      JSB_END_WRITE =  
R0752 0      JSB (REGISTER=6, REGISTER=7):  
R0753 0      NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),  
R0754 0      JSB_DO_WRITE =  
R0755 0      JSB (REGISTER=6, REGISTER=7, REGISTER=8):  
R0756 0      NOTUSED (9,10,11) NOPRESERVE(2,3,4,5),  
R0757 0      JSB_INIT_READ =  
R0758 0      JSB TREGISTER=6, REGISTER=7; REGISTER=7:  
R0759 0      NOTUSED(8,9,10,11) NOPRESERVE(2,3,4,5),  
R0760 0      JSB_END_READ =  
R0761 0      JSB (REGISTER=6, REGISTER=7):  
R0762 0      NOTUSED(0,1,2,3,4,5,8,9,10,11),  
R0763 0      JSB_VALIDATE_PFV =  
R0764 0      JSB (REGISTER=6; REGISTER=7):  
R0765 0      NOTUSED(3,4,5,8,9,10,11) NOPRESERVE(2),  
R0766 0      JSB_READ_UTIL =  
R0767 0      JSB TREGISTER=6, REGISTER=7; REGISTER=4, REGISTER=5, REGISTER=7:  
R0768 0      NOTUSED (9,10,11) NOPRESERVE (2,3,8),  
R0769 0      JSB_FIND_NON_BLANK =  
R0770 0      JSB TREGISTER=6, REGISTER=7; REGISTER=7:  
R0771 0      NOPRESERVE (2,3,8) NOTUSED (4,5,9,10,11),  
R0772 0      JSB_CLOSE_LOCAL =  
R0773 0      JSB :PRESERVE (0,1) NOPRESERVE (2,3) NOTUSED (4,5,6,7,8,9,10,11),  
R0774 0      JSB_DO_READV =  
R0775 0      JSB (REGISTER=6,REGISTER=2,REGISTER=3,REGISTER=4; REGISTER=0, REGISTER=1):  
R0776 0      NOPRESERVE (2,3,4,6) NOTUSED (5,7,8,9,10,11),  
R0777 0      JSB_DO_WRITEV =  
R0778 0      JSB (REGISTER=6,REGISTER=2,REGISTER=3,REGISTER=4,REGISTER=5):  
R0779 0      NOPRESERVE (2,3,4,5,6) NOTUSED (7,8,9,10,11),  
R0780 0      JSB_GET =  
R0781 0      JSB (REGISTER=6, REGISTER=7):  
R0782 0      NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),  
R0783 0      JSB_LOOK_AHEAD =  
R0784 0      JSB TREGISTER=6, REGISTER=7; REGISTER=7:  
R0785 0      NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),  
R0786 0      JSB_OPEN_IMPLICIT =  
R0787 0      JSB TREGISTER=6, REGISTER=7; REGISTER=7:  
R0788 0      NOTUSED(3,4,5,8,9,10,11) NOPRESERVE(2),  
R0789 0      JSB_PROMPT_FILE =  
R0790 0      JSB (REGISTER=6, REGISTER=7):  
R0791 0      NOTUSED (2,3,4,5,8,9,10,11),  
R0792 0      JSB_Writeln =  
R0793 0      JSB (REGISTER=6, REGISTER=7):  
R0794 0      NOTUSED (8,9,10,11) NOPRESERVE (2,3,4,5),  
R0795 0      CALL_VAL01 =  
R0796 0      CALL (:REGISTER=0, REGISTER=1).
```

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R0797 0 CALL SAVEALL =
R0798 0 CALL : PRESERVE (0,1),
R0799 0 CALL SIGNAL =
R0800 0 CALL (REGISTER=6),
R0801 0 CALL OPEN =
R0802 0 CALL (:REGISTER=7),
R0803 0 CALL VM =
R0804 0 CALL (REGISTER=6);
R0805 0

```
R0806 0
R0807 0      + Define all globals declared in all Pascal-specific BLISS modules and
R0808 0      those non-BLISS modules which are referenced by BLISS modules.
R0809 0
R0810 0
R0811 0      - EXTERNAL ROUTINE
R0812 0
R0813 0      ! Module PASS$BIN
R0814 0          PASS$BIN: NOVALUE,
R0815 0
R0816 0      ! Module PASS$CLOSE2
R0817 0          PASS$CLOSE2: NOVALUE,
R0818 0          PASS$CLOSE: NOVALUE,
R0819 0
R0820 0      ! Module PASS$CVTRT
R0821 0          PASS$CVT_F_T;
R0822 0          PASS$CVT_D_T;
R0823 0          PASS$CVT_G_T;
R0824 0          PASS$CVT_H_T;
R0825 0
R0826 0      ! Module PASS$EOF2
R0827 0          PASS$EOF2.
R0828 0
R0829 0      ! Module PASS$EOLN2
R0830 0          PASS$EOLN2,
R0831 0
R0832 0      ! Module PASS$DELETE
R0833 0          PASS$DELETE: NOVALUE,
R0834 0
R0835 0      ! Module PASS$FILE_UTIL
R0836 0          PASS$ADD_FILE: NOVALUE,
R0837 0          PASS$REMOVE_FILE: NOVALUE,
R0838 0          PASS$PROMPT_ALL: NOVALUE,
R0839 0          PASS$PROMPT_FILE: JSB_PROMPT_FILE NOVALUE,
R0840 0          PASS$CLOSE_ALL: NOVALUE,
R0841 0          PASS$CLOSE_LOCAL R3: JSB_CLOSE_LOCAL NOVALUE,
R0842 0          PASS$CLOSE_LOCAL: JSB_CLOSE_LOCAL NOVALUE,
R0843 0
R0844 0      ! Module PASS$FIND2
R0845 0          PASS$FIND2: NOVALUE,
R0846 0
R0847 0      ! Module PASS$FINDK
R0848 0          PASS$FINDK: NOVALUE,
R0849 0
R0850 0      ! Module PASS$GET
R0851 0          PASS$GET: NOVALUE,
R0852 0          PASS$GET_UNLOCK: NOVALUE,
R0853 0          PASS$GET: JSB_GET NOVALUE,
R0854 0
R0855 0      ! Module PASS$GOTO
R0856 0          PASS$GOTO: NOVALUE,
R0857 0          PASS$GOTO_HANDLER,
R0858 0          PASS$UNWIND_GOTO,
R0859 0
R0860 0      ! Module PASS$HALT
R0861 0          PASS$HALT: NOVALUE,
R0862 0
```

R0863 0 : Module PASSHANDLER
R0864 0 PASSHANDLER,
R0865 0
R0866 0 : Module PASSHEAP
R0867 0 PASS\$NEW2,
R0868 0 PASS\$DISPOSE2: NOVALUE,
R0869 0 PASS\$MARK2,
R0870 0 PASS\$RELEASE2: NOVALUE,
R0871 0
R0872 0 : Module PASS\$HEX
R0873 0 PASS\$HEX: NOVALUE,
R0874 0
R0875 0 : Module PASS\$IO_HANDLER
R0876 0 PASS\$IO_HANDLER,
R0877 0
R0878 0 : Module PASS\$LINELIMIT2
R0879 0 PASS\$LINELIMIT2: NOVALUE,
R0880 0
R0881 0 : Module PASS\$LOCATE
R0882 0 PASS\$LOCATE: NOVALUE,
R0883 0
R0884 0 : Module PASS\$LOOK_AHEAD
R0885 0 PASS\$LOOK_AHEAD: CALL_SAVEALL NOVALUE,
R0886 0 PASS\$LOOK_AHEAD: JSB_LOOK_AHEAD NOVALUE,
R0887 0
R0888 0 : Module PASS\$OCT
R0889 0 PASS\$OCT: NOVALUE,
R0890 0
R0891 0 : Module PASS\$OPEN2
R0892 0 PASS\$OPEN2: NOVALUE,
R0893 0 PASS\$OPEN: CALL_OPEN NOVALUE,
R0894 0 PASS\$OPEN_IMPLPLICIT: JSB_OPEN_IMPLPLICIT NOVALUE,
R0895 0
R0896 0 : Module PASS\$PAGE2
R0897 0 PASS\$PAGE2: NOVALUE,
R0898 0
R0899 0 : Module PASS\$RAB
R0900 0 PASS\$RAB,
R0901 0
R0902 0 : Module PASS\$READ_BOOLEAN
R0903 0 PASS\$READ_BOOLEAN,
R0904 0 PASS\$READV_BOOLEAN.
R0905 0
R0906 0 : Module PASS\$READ_CHAR
R0907 0 PASS\$READ_CHAR,
R0908 0 PASS\$READV_CHAR,
R0909 0
R0910 0 : Module PASS\$READLN2
R0911 0 PASS\$READLN2: NOVALUE,
R0912 0 PASS\$INIT_READ: JSB_INIT_READ NOVALUE,
R0913 0 PASS\$END_READ: JSB_END_READ NOVALUE,
R0914 0 PASS\$DO_READV: JSB_DO_READV NOVALUE,
R0915 0
R0916 0 : Module PASS\$READ_UTIL
R0917 0 PASS\$GET_UNSIGNED: JSB_READ_UTIL,
R0918 0 PASS\$GET_INTEGER: JSB_READ_UTIL,
R0919 0 PASS\$GET_REAL: JSB_READ_UTIL.

R0920 0 PASS\$GET_ENUMERATED: JSB_READ_UTIL.
R0921 0
R0922 0 ! Module PASSREAD ENUMERATED
R0923 0 PASSREAD ENUMERATED,
R0924 0 PASSREADV_ENUMERATED,
R0925 0
R0926 0 ! Module PASSREAD INTEGER
R0927 0 PASSREAD INTEGER,
R0928 0 PASSREADV_INTEGER,
R0929 0
R0930 0 ! Module PASSREAD_REAL_D
R0931 0 PASSREAD REAL_D: CALL_VAL01 NOVALUE,
R0932 0 PASSREADV_REAL_D: CALL_VAL01 NOVALUE,
R0933 0
R0934 0 ! Module PASSREAD_REAL_F
R0935 0 PASSREAD REAL_F,
R0936 0 PASSREADV_REAL_F,
R0937 0
R0938 0 ! Module PASSREAD_REAL_G
R0939 0 PASSREAD REAL_G: CALL_VAL01 NOVALUE,
R0940 0 PASSREADV_REAL_G: CALL_VAL01 NOVALUE,
R0941 0
R0942 0 ! Module PASSREAD_REAL_H
R0943 0 PASSREAD REAL_H: NOVALUE,
R0944 0 PASSREADV_REAL_H: NOVALUE,
R0945 0
R0946 0 ! Module PASSREAD STRING1
R0947 0 PASSREAD_STRING1: NOVALUE,
R0948 0
R0949 0 ! Module PASSREAD STRING
R0950 0 PASSREAD STRING: NOVALUE,
R0951 0 PASSREADV_STRING: NOVALUE,
R0952 0
R0953 0 ! Module PASSREAD UNSIGNED
R0954 0 PASSREAD UNSIGNED,
R0955 0 PASSREADV_UNSIGNED,
R0956 0
R0957 0 ! Module PASSREAD VARYING
R0958 0 PASSREAD VARYING: NOVALUE,
R0959 0 PASSREADV_VARYING: NOVALUE,
R0960 0
R0961 0 ! Module PASSRESET2
R0962 0 PASSRESET2: NOVALUE,
R0963 0
R0964 0 ! Module PASSRESETK
R0965 0 PASSRESETK: NOVALUE,
R0966 0
R0967 0 ! Module PASSREWRITE2
R0968 0 PASSREWRITE2: NOVALUE,
R0969 0
R0970 0 ! Module PASS\$SIGNAL
R0971 0 PASS\$SIGNAL: CALL_SIGNAL NOVALUE,
R0972 0 PASS\$BUGCHECK: NOVALUE,
R0973 0
R0974 0 ! Module PASS\$STATUS
R0975 0 PASS\$STATUS,
R0976 0

R0977 0 ! Module PASS\$TRUNCATE
R0978 0 PASS\$TRUNCATE: NOVALUE,
R0979 0
R0980 0 ! Module PASS\$UFB
R0981 0 PASS\$UFB,
R0982 0
R0983 0 ! Module PASS\$UNLOCK
R0984 0 PASS\$UNLOCK: NOVALUE,
R0985 0
R0986 0 ! Module PASS\$UPDATE
R0987 0 PASS\$UPDATE: NOVALUE,
R0988 0
R0989 0 ! Module PASS\$VALIDATE_PFV
R0990 0 PASS\$VALIDATE_PFV: JSB_VALIDATE_PFV NOVALUE,
R0991 0
R0992 0 ! Module PASS\$VM
R0993 0 PASS\$GET_VM: CALL VM,
R0994 0 PASS\$FREE_VM: NOVALUE,
R0995 0
R0996 0 ! Module PASS\$WRITE_BIN
R0997 0 PASS\$WRITE_BIN: NOVALUE,
R0998 0 PASS\$WRITEV_BIN: NOVALUE,
R0999 0
R1000 0 ! Module PASS\$WRITE_BOOLEAN
R1001 0 PASS\$WRITE_BOOLEAN: NOVALUE,
R1002 0 PASS\$WRITEV_BOOLEAN: NOVALUE,
R1003 0
R1004 0 ! Module PASS\$WRITE_CHAR
R1005 0 PASS\$WRITE_CHAR: NOVALUE,
R1006 0 PASS\$WRITEV_CHAR: NOVALUE,
R1007 0
R1008 0 ! Module PASS\$WRITE_ENUMERATED
R1009 0 PASS\$WRITE_ENUMERATED: NOVALUE,
R1010 0 PASS\$WRITEV_ENUMERATED: NOVALUE,
R1011 0
R1012 0 ! Module PASS\$WRITE_HEX
R1013 0 PASS\$WRITE_HEX: NOVALUE,
R1014 0 PASS\$WRITEV_HEX: NOVALUE,
R1015 0
R1016 0 ! Module PASS\$WRITE_INTEGER
R1017 0 PASS\$WRITE_INTEGER: NOVALUE,
R1018 0 PASS\$WRITEV_INTEGER: NOVALUE,
R1019 0
R1020 0 ! Module PASS\$WRITE_OCT
R1021 0 PASS\$WRITE_OCT: NOVALUE,
R1022 0 PASS\$WRITEV_OCT: NOVALUE,
R1023 0
R1024 0 ! Module PASS\$WRITE_REAL_E_D
R1025 0 PASS\$WRITE_REAL_E_D: NOVALUE,
R1026 0 PASS\$WRITEV_REAL_E_D: NOVALUE,
R1027 0
R1028 0 ! Module PASS\$WRITE_REAL_E_F
R1029 0 PASS\$WRITE_REAL_E_F: NOVALUE,
R1030 0 PASS\$WRITEV_REAL_E_F: NOVALUE,
R1031 0
R1032 0 ! Module PASS\$WRITE_REAL_E_G
R1033 0 PASS\$WRITE_REAL_E_G: NOVALUE,

```
R1034 0                PASS$WRITEV_REAL_E_G: NOVALUE,  
R1035 0  
R1036 0                ! Module PASS$WRITE REAL_E_H  
R1037 0                PASS$WRITE REAL_E_H: NOVALUE,  
R1038 0                PASS$WRITEV_REAL_E_H: NOVALUE,  
R1039 0  
R1040 0                ! Module PASS$WRITE REAL_F_D  
R1041 0                PASS$WRITE REAL_F_D: NOVALUE,  
R1042 0                PASS$WRITEV_REAL_F_D: NOVALUE,  
R1043 0  
R1044 0                ! Module PASS$WRITE REAL_F_D1  
R1045 0                PASS$WRITE_REAL_F_D1: NOVALUE,  
R1046 0  
R1047 0                ! Module PASS$WRITE REAL_F_F  
R1048 0                PASS$WRITE REAL_F_F: NOVALUE,  
R1049 0                PASS$WRITEV_REAL_F_F: NOVALUE,  
R1050 0  
R1051 0                ! Module PASS$WRITE REAL_F_F1  
R1052 0                PASS$WRITE_REAL_F_F1: NOVALUE,  
R1053 0  
R1054 0                ! Module PASS$WRITE REAL_F_G  
R1055 0                PASS$WRITE REAL_F_G: NOVALUE,  
R1056 0                PASS$WRITEV_REAL_F_G: NOVALUE,  
R1057 0  
R1058 0                ! Module PASS$WRITE REAL_F_H  
R1059 0                PASS$WRITE REAL_F_H: NOVALUE,  
R1060 0                PASS$WRITEV_REAL_F_H: NOVALUE,  
R1061 0  
R1062 0                ! Module PASS$WRITE STRING  
R1063 0                PASS$WRITE STRING: NOVALUE,  
R1064 0                PASS$WRITEV_STRING: NOVALUE,  
R1065 0  
R1066 0                ! Module PASS$WRITELN2  
R1067 0                PASS$WRITELN2: NOVALUE,  
R1068 0                PASS$WRITELN: JSB WRITELN NOVALUE,  
R1069 0                PASS$INIT WRITE: JSB INIT WRITE NOVALUE,  
R1070 0                PASS$END WRITE: JSB END WRITE NOVALUE,  
R1071 0                PASS$DO_WRITEV: JSB_DO_WRITEV NOVALUE,  
R1072 0  
R1073 0                ! Module PASS$WRITE UNSIGNED  
R1074 0                PASS$WRITE UNSIGNED: NOVALUE,  
R1075 0                PASS$WRITEV_UNSIGNED: NOVALUE,  
R1076 0  
R1077 0                ! Module PASS$WRITE VARYING  
R1078 0                PASS$WRITE VARYING: NOVALUE,  
R1079 0                PASS$WRITEV_VARYING: NOVALUE;  
R1080 0  
R1081 0                EXTERNAL  
R1082 0  
R1083 0                ! Module PASS$FV INPUT  
R1084 0                PASS$FV_INPUT: $PASS$PFV_FILE_VARIABLE WEAK,  
R1085 0  
R1086 0                ! Module PASS$FV OUTPUT  
R1087 0                PASS$FV_OUTPUT: $PASS$PFV_FILE_VARIABLE WEAK,  
R1088 0  
R1089 0                ! Module PASS$OPEN2  
R1090 0                PASS$GV_INPUT_OPENED: BYTE,
```

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[PASRTL.SRC]PASEXTERN.REQ;1

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```
R1091 0      PASS$GV_OUTPUT OPENED: BYTE
R1092 0      PASS$AB_KEYWD_NAME_TABLE: VECTOR [PASS$K_OPEKEYHI+1, BYTE].
R1093 0
R1094 0      ! Module PASS$READ BOOLEAN
R1095 0      PASS$GR_BOOLEAN_PETD: VECTOR [4, LONG];
R1096 0
R1097 0
R1098 0      EXTERNAL
R1099 0      ! Module PASS$VALIDATE_PFV
R1100 0      PASS$VALIDATE_PFV_END: ! Not a routine!
R1101 0
R1102 0      EXTERNAL LITERAL
R1103 0      ! Module PASS$MSGDEF
R1104 0      PASS$K_MSGV2LO: UNSIGNED(16),
R1105 0      PASS$K_MSGCONTLO: UNSIGNED(16),
R1106 0      PASS$K_MSGCONTHI: UNSIGNED(16),
R1107 0      PASS$K_MSGPFVHI: UNSIGNED(16),
R1108 0      PASS$K_MSGCHKBAS: UNSIGNED(16);
R1109 0
```

```
R1110 0    !+  
R1111 0    | Define non-Pascal routines called by Pascal RTL.  
R1112 0    |-  
R1113 0  
R1114 0    EXTERNAL ROUTINE  
R1115 0  
R1116 0    LIB$CVT_DTB,  
R1117 0    LIB$FREE_VM,  
R1118 0    LIB$GET_OPCODE,  
R1119 0    LIB$GET_VM,  
R1120 0  
R1121 0    OTSS$CVT_L_TB,  
R1122 0    OTSS$CVT_L_TI,  
R1123 0    OTSS$CVT_L_TO,  
R1124 0    OTSS$CVT_L_TZ,  
R1125 0    OTSS$CVT_TB_L,  
R1126 0    OTSS$CVT_TI_L,  
R1127 0    OTSS$CVT_TO_L,  
R1128 0    OTSS$CVT_TZ_L,  
R1129 0    OTSS$CVT_T_F,  
R1130 0    OTSS$CVT_T_D,  
R1131 0    OTSS$CVT_T_G,  
R1132 0    OTSS$CVT_T_H;
```

```
R1133 0  !+  
R1134 0  Define condition codes used by Pascal RTL routines.  
R1135 0  !-  
R1136 0  
R1137 0  EXTERNAL LITERAL  
R1138 0  
R1139 0  ! Errors signalled with $PASS$IO_ERROR  
R1140 0  
R1141 0  PASSK_ACCMETINC: UNSIGNED(8),  
R1142 0  PASSK_AMBVALENU: UNSIGNED(8),  
R1143 0  PASSK_CURCOMUND: UNSIGNED(8),  
R1144 0  PASSK_DELNOTALL: UNSIGNED(8),  
R1145 0  PASSK_ERRDURCLO: UNSIGNED(8),  
R1146 0  PASSK_ERRDURDEL: UNSIGNED(8),  
R1147 0  PASSK_ERRDURGET: UNSIGNED(8),  
R1148 0  PASSK_ERRDURFIN: UNSIGNED(8),  
R1149 0  PASSK_ERRDUROPE: UNSIGNED(8),  
R1150 0  PASSK_ERRDURPRO: UNSIGNED(8),  
R1151 0  PASSK_ERRDURPUT: UNSIGNED(8),  
R1152 0  PASSK_ERRDURRES: UNSIGNED(8),  
R1153 0  PASSK_ERRDURREW: UNSIGNED(8),  
R1154 0  PASSK_ERRDURTRU: UNSIGNED(8),  
R1155 0  PASSK_ERRDURUNL: UNSIGNED(8),  
R1156 0  PASSK_ERRDURUPD: UNSIGNED(8),  
R1157 0  PASSK_ERRDURWRI: UNSIGNED(8),  
R1158 0  PASSK_FAIGETLOC: UNSIGNED(8),  
R1159 0  PASSK_FILALRCLO: UNSIGNED(8),  
R1160 0  PASSK_FILALROPE: UNSIGNED(8),  
R1161 0  PASSK_FILNAMREQ: UNSIGNED(8),  
R1162 0  PASSK_FILNOTOPE: UNSIGNED(8),  
R1163 0  PASSK_FILNOTTEX: UNSIGNED(8),  
R1164 0  PASSK_FILNOTFOU: UNSIGNED(8),  
R1165 0  PASSK_FILNOTKEY: UNSIGNED(8),  
R1166 0  PASSK_FILNOTINS: UNSIGNED(8),  
R1167 0  PASSK_FILNOTDIR: UNSIGNED(8),  
R1168 0  PASSK_FILNOTGEN: UNSIGNED(8),  
R1169 0  PASSK_FILNOTSEQ: UNSIGNED(8),  
R1170 0  PASSK_GETAFTEREOF: UNSIGNED(8),  
R1171 0  PASSK_GENNOTALL: UNSIGNED(8),  
R1172 0  PASSK_KEYNOTDEF: UNSIGNED(8),  
R1173 0  PASSK_KEYDEFINC: UNSIGNED(8),  
R1174 0  PASSK_KEYCHANOT: UNSIGNED(8),  
R1175 0  PASSK_KEYDUPNOT: UNSIGNED(8),  
R1176 0  PASSK_KEYVALINC: UNSIGNED(8),  
R1177 0  PASSK_INSNOTALL: UNSIGNED(8),  
R1178 0  PASSK_INSVIRMEM: UNSIGNED(8),  
R1179 0  PASSK_INVARGPAS: UNSIGNED(8),  
R1180 0  PASSK_INVFILVAR: UNSIGNED(8),  
R1181 0  PASSK_INVFILSYN: UNSIGNED(8),  
R1182 0  PASSK_INVKYDEF: UNSIGNED(8),  
R1183 0  PASSK_INVRECIO: UNSIGNED(8),  
R1184 0  PASSK_INVRECLEN: UNSIGNED(8),  
R1185 0  PASSK_INVSYNINT: UNSIGNED(8),  
R1186 0  PASSK_INVSYNREA: UNSIGNED(8),  
R1187 0  PASSK_INVSYNENU: UNSIGNED(8),  
R1188 0  PASSK_INVSYNUNS: UNSIGNED(8),  
R1189 0  PASSK_LINTOOLON: UNSIGNED(8),
```

```
R1190 0    PASSK_LINVALEXC:    UNSIGNED(8),  
R1191 0    PASSK_NEGWIDDIG:    UNSIGNED(8),  
R1192 0    PASSK_NOTVALTYP:    UNSIGNED(8),  
R1193 0    PASSK_ORGSPEINC:    UNSIGNED(8),  
R1194 0    PASSK_RECLENINC:    UNSIGNED(8),  
R1195 0    PASSK_RECTYPINC:    UNSIGNED(8),  
R1196 0    PASSK_RESNOTALL:    UNSIGNED(8),  
R1197 0    PASSK_REWNOTALL:    UNSIGNED(8),  
R1198 0    PASSK_SEQNOTALL:    UNSIGNED(8),  
R1199 0    PASSK_TEXREQSEQ:    UNSIGNED(8),  
R1200 0    PASSK_TRUNOTALL:    UNSIGNED(8),  
R1201 0    PASSK_UPDNOTALL:    UNSIGNED(8),  
R1202 0    PASSK_WRIINVENU:    UNSIGNED(8),  
R1203 0  
R1204 0    ! Errors signalled with LIB$STOP  
R1205 0  
R1206 0    PASS$_BUGCHECK,  
R1207 0    PASS$_CONTINUE,  
R1208 0    PASS$_ERRDURDIS,  
R1209 0    PASS$_ERRDURMAR,  
R1210 0    PASS$_ERRDURNEW,  
R1211 0    PASS$_ERRDURREL,  
R1212 0    PASS$_FILALRACT,  
R1213 0    PASS$_GOTO,  
R1214 0    PASS$_GOTOF FAILED,  
R1215 0    PASS$_HALT,  
R1216 0    PASS$_INVFILEVAR,  
R1217 0    PASS$_NEGDIGARG,  
R1218 0  
R1219 0    PASS$_ARRINDVAL,    ! Used by PAS$HANDLER  
R1220 0    PASS$_BASE,  
R1221 0    PASS$_FACILITY:    UNSIGNED(6),  
R1222 0    PASS$_IGNORE:      UNSIGNED(6);    ! Used by PAS$HANDLER  
R1223 0  
R1224 0    ! End of PASEXTERN.REQ
```

```
1225 0
1226 0
1227 0      + Declare codes for unwind actions for PAS$$_IO_HANDLER.
1228 0      -
1229 0
1230 0      LITERAL
1231 0          PASSK_UNWIND_NOP = 0,      ! Do nothing
1232 0          PASSK_UNWIND_UNLOCK = 1;    ! Unlock file
1233 0
1234 0      ! End of file PASLIB.REQ
```

Library Statistics

File	----- Symbols -----	Pages Mapped	Processing Time
	Total Loaded Percent		
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776 4 0	581	00:01.0

COMMAND QUALIFIERS

BLISS/LIBRARY=LIB\$:/LIST=LISS:/SOURCE=REQUIRE SRC\$:PASLIB

Run Time: 00:11.5
Elapsed Time: 00:52.3
Lines/CPU Min: 6421
Lexemes/CPU-Min: 23333
Memory Used: 119 pages
Library Precompilation Complete

0295 AH-BT13A-SE
VAX/VMS V4.0

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PASPAGE2
LIS

PASHEX
LIS

PASLINELI
LIS

PASMSGPTR
LIS

PASLIB
LIS

PASLOOKAH
LIS

PASOCT
LIS

PASOPEN2
LIS

PASPUT
LIS

PASTICKHAND
LIS

PASLOCATE
LIS

PASMSGTXT
LIS