

```

PPPPPPPPPPPP    AAAAAAAAAA    SSSSSSSSSSSS    RRRRRRRRRRRR    TTTTTTTTTTTTTT    LLL
PPPPPPPPPPPP    AAAAAAAAAA    SSSSSSSSSSSS    RRRRRRRRRRRR    TTTTTTTTTTTTTT    LLL
PPPPPPPPPPPP    AAAAAAAAAA    SSSSSSSSSSSS    RRRRRRRRRRRR    TTTTTTTTTTTTTT    LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPP              PPP    AAA              AAA    SSS              SSS              TTT              TTT              LLL
PPPPPPPPPPPP    AAA              AAA              SSSSSSSSSS    RRRRRRRRRRRR    TTT              TTT              LLL
PPPPPPPPPPPP    AAA              AAA              SSSSSSSSSS    RRRRRRRRRRRR    TTT              TTT              LLL
PPPPPPPPPPPP    AAA              AAA              SSSSSSSSSS    RRRRRRRRRRRR    TTT              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    SSSSSSSSSS    RRR              RRR              TTT              LLLLLLLLLLLLLLLLL
PPP              AAA              AAA    SSSSSSSSSS    RRR              RRR              TTT              LLLLLLLLLLLLLLLLL
PPP              AAA              AAA    SSSSSSSSSS    RRR              RRR              TTT              LLLLLLLLLLLLLLLLL

```

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

PAS

```

PPPPPPPP      AAAAAA      SSSSSSSS  LL      IIIIII      BBBB88888
PPPPPPPP      AAAAAA      SSSSSSSS  LL      IIIIII      888888888
PP      PP    AA      AA    SS      LL      II      88      88
PP      PP    AA      AA    SS      LL      II      88      88
PP      PP    AA      AA    SS      LL      II      88      88
PP      PP    AA      AA    SS      LL      II      88      88
PPPPPPPP      AA      AA    SSSSSS    LL      II      888888888
PPPPPPPP      AA      AA    SSSSSS    LL      II      888888888
PP      AAAAAAAAAA      SS      LL      II      88      88
PP      AAAAAAAAAA      SS      LL      II      88      88
PP      AA      AA    SS      LL      II      88      88
PP      AA      AA    SS      LL      II      88      88
PP      AA      AA    SSSSSSSS  LLLLLLLLLL  IIIIII      888888888
PP      AA      AA    SSSSSSSS  LLLLLLLLLL  IIIIII      888888888

```

```

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

```

0001 0  
0002 0  
0003 0  
0004 0  
0005 0  
0006 0  
0007 0  
0008 0  
0009 0  
0010 0  
0011 0  
0012 0  
0013 0  
0014 0  
0015 0  
0016 0  
0017 C  
0018 0  
0019 0  
0020 0  
0021 0  
0022 0  
0023 0  
0024 0  
0025 0  
0026 0  
0027 0  
0028 0  
0029 0  
0030 0  
0031 0  
0032 0  
0033 0  
0034 0  
0035 0  
0036 0  
0037 0  
0038 0  
0039 0  
0040 0  
0041 0  
0042 0  
0043 0  
0044 0

```
Pascal Run-Time Library specific macros and symbols
File: PASLIB.REQ, Edit: SBL1002

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Author: Steven B. Lionel, 1-April-1981
1-001 - Original. SBL 1-April-1981
1-002 - Reflect new name of FCB structure due to use of fieldsets.
      10-Feb-1983
--

+
This file is the master source for PASLIB.L32.
It REQUIRES all of the .REQ and .B32 files which
comprise PASLIB. This file is then precompiled into PASLIB.L32.
-

SWITCHES ADDRESSING_MODE (EXTERNAL=GENERAL, NONEXTERNAL=WORD_RELATIVE);
LIBRARY 'RTLSTARLET';           ! SYSS$LIBRARY:STARLET.L32
REQUIRE 'RTLIN:PASPFV';       ! Pascal File Variable (PFV$) definitions
```

R0045 0  
R0046 0  
R0047 0  
R0048 0  
R0049 0  
R0050 0  
R0051 0  
R0052 0  
R0053 0  
R0054 0  
R0055 0  
R0056 0  
R0057 0  
R0058 0  
R0059 0  
R0060 0  
R0061 0  
R0062 0  
R0063 0  
R0064 0  
R0065 0  
R0066 0  
R0067 0  
R0068 0  
R0069 0  
R0070 0  
R0071 0  
R0072 0  
R0073 0  
R0074 0  
R0075 0  
R0076 0  
R0077 0  
R0078 0  
R0079 0  
R0080 0  
R0081 0  
R0082 0  
R0083 0  
R0084 0  
R0085 0  
R0086 0  
R0087 0  
R0088 0  
R0089 0  
R0090 0  
R0091 0  
R0092 0  
R0093 0  
R0094 0  
R0095 0  
R0096 0  
R0097 0  
R0098 0  
R0099 0  
R0100 0  
R0101 0

Pascal file Variable (PFV\$) field definitions  
File: PASPFV.REQ, Edit: SBL1001

```
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```

Author: Steven B. Lionel, 1-April-1981

1-001 - Original. SBL 1-April-1981

+ The Pascal File Variable (PFV) is a dynamically allocated block whose address is passed to the Run-Time Library to uniquely identify a file. For more information, see the VAX-11 Language Support Procedures reference Manual

! PFV structure definition

FIELD

PFV\$FIELDS =  
SET

PFV\$R\_PFV = [0,0,0,0], ! Field to address the entire structure.

PFV\$A\_BUFFER = [0,0,32,0], ! Address of the user file buffer. If  
! PFV\$V\_RELBUF is set, this address is  
! relative to the PFV address, otherwise  
! it is absolute.

PFV\$B\_VERSION = [4,0,8,0], ! The version number of the PFV layout.  
! The latest version number is defined by  
! the symbol PFV\$K\_CUR\_VERSION.

PFV\$W\_FLAGS = [4,16,16,0], ! Status flags which the Run-Time Library

```

R0102 0
R0103 0
R0104 0
R0105 0
R0106 0
R0107 0
R0108 0
R0109 0
R0110 0
R0111 0
R0112 0
R0113 0
R0114 0
R0115 0
R0116 0
R0117 0
R0118 0
R0119 0
R0120 0
R0121 0
R0122 0
R0123 0
R0124 0
R0125 0
R0126 0
R0127 0
R0128 0
R0129 0
R0130 0
R0131 0
R0132 0
R0133 0
R0134 0
R0135 0
R0136 0
R0137 0
R0138 0
R0139 0
R0140 0
R0141 0
R0142 0
R0143 0
R0144 0
R0145 0
R0146 0
R0147 0
R0148 0
R0149 0
R0150 0
R0151 0
R0152 0
R0153 0
R0154 0
R0155 0
R0156 0
R0157 0
R0158 0

```

sets and clears to indicate the current status of the file.

PFV\$V\_VALID = [4,16,1,0], 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, PASS\$LOOK\_AHEAD must be called to make the information valid.

PFV\$V\_DFB = [4,17,1,0], Buffer is defined. If set, the last file operation resulted in a "defined" file buffer by the semantics of Pascal. If clear, the file buffer is "undefined". If PFV\$V\_EOF\_DEFINED is set, EOF(f) is equivalent to .NOT. PASS\$V\_DFB

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 PASS\$V\_DFB is clear.

PFV\$V\_EOLN = [4,19,1,0], File is at end-of-line.

PFV\$V\_RELBUF = [4,27,1,0], PFV\$A\_BUFFER address is relative to the PFV address. If clear, the address is absolute.

PFV\$V\_RELPFD = [4,28,1,0], PFV\$A\_PFD address is relative to the PFV address. If clear, the address is absolute.

PFV\$V\_OPEN = [4,29,1,0], File is open.

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.

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.

PFV\$A\_PFD = [8,0,32,0], Address of the Pascal File Descriptor (PFD). If PFV\$V\_RELPFD is set, this is relative to the PFV address, otherwise it is absolute.

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.

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.

```

: R0159 0
: R0160 00
: R0161 00
: R0162 00
: R0163 00
: R0164 00
: R0165 00
: R0166 00
: R0167 00
: R0168 00
: R0169 0

      TES;

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

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

! End of file PASPFV.REQ
```

: 0170 0  
: 0171 0

REQUIRE 'RTLIN:PASPFD';

! Pascal file Descriptor (PFD\$) definitions

:

R0172 0  
R0173 0  
R0174 0  
R0175 0  
R0176 0  
R0177 0  
R0178 0  
R0179 0  
R0180 0  
R0181 0  
R0182 0  
R0183 0  
R0184 0  
R0185 0  
R0186 0  
R0187 0  
R0188 0  
R0189 0  
R0190 0  
R0191 0  
R0192 0  
R0193 0  
R0194 0  
R0195 0  
R0196 0  
R0197 0  
R0198 0  
R0199 0  
R0200 0  
R0201 0  
R0202 0  
R0203 0  
R0204 0  
R0205 0  
R0206 0  
R0207 0  
R0208 0  
R0209 0  
R0210 0  
R0211 0  
R0212 0  
R0213 0  
R0214 0  
R0215 0  
R0216 0  
R0217 0  
R0218 0  
R0219 0  
R0220 0  
R0221 0  
R0222 C  
R0223 0  
R0224 0  
R0225 0  
R0226 0  
R0227 0  
R0228 0

```
! Pascal File Descriptor (PFDS) field definitions
File: PASPF.D.REQ, Edit: SBL1002

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Author: Steven B. Lionel, 1-April-1981

1-001 - Original. SBL 1-April-1981
1-002 - Reserve attributes bits 7 and 8 for Elan Pascal. This supersedes
PFDSV_HEAP which has never been used. SBL 8-Aug-1983

--

+
The Pascal File Descriptor contains compile-time determinable information
about a VAX-11 Pascal file. For more information, see the VAX-11 Language
Support Procedures Reference Manual.

-

! PFD structure definition

FIELD
PFDSFIELDS =
SET

PFDSR_PFD = [0,0,0,0], ! Field to address the entire structure.
PFDSA_KDB = [0,0,32,0], ! Relative pointer to the Key Descriptor
! Block (KDB). The address is relative to
! the start of the PFD. If zero, there is
! no KDB.

PFDSW_ATTRIB = [4,0,16,0], ! This field contains compile-time determineable
! attributes of the file.
PFDSV_TEXT = [4,0,1,0], ! The file is of type TEXT.
PFDSV_BINARY = [4,1,1,0], ! The file is of a non-varying binary type.
PFDSV_VARYING = [4,2,1,0], ! The file is a file of VARYING.
```



R0229 0  
R0230 0  
R0231 0  
R0232 0  
R0233 0  
R0234 0  
R0235 0  
R0236 0  
R0237 0  
R0238 0  
R0239 0  
R0240 0  
R0241 0  
R0242 0  
R0243 0  
R0244 0  
R0245 0  
R0246 0  
R0247 0  
R0248 0  
R0249 0  
R0250 0  
R0251 0  
R0252 0  
R0253 0  
R0254 0  
R0255 0  
R0256 0  
R0257 0  
R0258 0  
R0259 0  
R0260 0  
R0261 0  
R0262 0  
R0263 0  
R0264 0  
R0265 0  
R0266 0  
R0267 0  
R0268 0  
R0269 0  
R0270 0

PFDSV\_NOREAD = [4.3,1,0],  
PFDSV\_NOWRITE = [4.4,1,0],  
PFDSV\_EXTERN = [4.5,1,0],  
  
PFDSV\_STATIC = [4.6,1,0],  
:  
[4.7,1,0],  
:  
[4.8,1,0],  
  
PFDSL\_LENGTH = [8,0,32,0],  
  
PFDSI\_NAME = [12,0,8,0],  
  
PFDSB\_NAME1 = [13,0,8,0],  
PFDSB\_NAME2 = [14,0,8,0],  
PFDSB\_NAME3 = [15,0,8,0],  
PFDSB\_NAME4 = [16,0,8,0],  
PFDSB\_NAME5 = [17,0,8,0],  
PFDSB\_NAME6 = [18,0,8,0],  
PFDSB\_NAME7 = [19,0,8,0],  
PFDSB\_NAME8 = [20,0,8,0],  
  
TES;  
  
LITERAL  
PFDSK\_SIZE = 13;  
  
MACRO  
\$PASSPFD\_FILE\_DESCRIPTOR = BLOCK [, BYTE] FIELD (PFDSFIELDS) %;  
  
! End of file PASPFD.REQ

: The file variable is declared WRITEONLY.  
: The file variable is declared READONLY  
: The file is external; i.e. it has been declared  
: at the outermost block level.  
: The file is not declared in a local procedure.  
: Also used for files allocated with NEW.  
: Reserved to VAX Elan Pascal  
: Reserved to VAX Elan Pascal  
  
: The length of the file component type in bytes.  
: If PFDSV\_TEXT is set, PFDSL\_LENGTH must be 1.  
: If PFDSV\_VARYING is set, this value includes the  
: length word.  
  
: A counted ASCII string containing the name of  
: the file variable. The string length is in  
: the first byte.  
  
: Byte 1 of file name  
: Byte 2 of file name  
: Byte 3 of file name  
: Byte 4 of file name  
: Byte 5 of file name  
: Byte 6 of file name  
: Byte 7 of file name  
: Byte 8 of file name  
  
: End of PFD  
  
: Base size of PFD in bytes  
: with a zero-length file  
: variable name. A PFD is only  
: allocated in PASSFV INPUT,  
: PASSFV OUTPUT, PASSREADV  
: and PASSWRITEV.

C 4  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:34

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 8 (1)

: 0271 0  
: 0272 0

REQUIRE 'RTLIN:PASKDB';

. Key Descriptor Block (KDB\$) definitions

R0273 0  
R0274 0  
R0275 0  
R0276 0  
R0277 0  
R0278 0  
R0279 0  
R0280 0  
R0281 0  
R0282 0  
R0283 0  
R0284 0  
R0285 0  
R0286 0  
R0287 0  
R0288 0  
R0289 0  
R0290 0  
R0291 0  
R0292 0  
R0293 0  
R0294 0  
R0295 0  
R0296 0  
R0297 0  
R0298 0  
R0299 0  
R0300 0  
R0301 0  
R0302 0  
R0303 0  
R0304 0  
R0305 0  
R0306 0  
R0307 0  
R0308 0  
R0309 0  
R0310 0  
R0311 0  
R0312 0  
R0313 0  
R0314 0  
R0315 0  
R0316 0  
R0317 0  
R0318 0  
R0319 0  
R0320 0  
R0321 0  
R0322 0  
R0323 0  
R0324 0  
R0325 0  
R0326 0  
R0327 0  
R0328 0  
R0329 0

Pascal Key Descriptor Block (KDB\$) field definitions  
File: PASKDB.REQ, Edit: SBL1001

```
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```

Author: Steven B. Lionel, 1-April-1981  
1-001 - Original. SBL 1-April-1981

The Key Descriptor Block describes the key fields for a record of an indexed organization file.

! KDB structure definition

```
FIELD  
KDB$FIELDS =  
SET  
  
KDB$B_COUNT = [0,0,8,0], ! Count of key definitions  
! to follow.  
  
!+  
! The following definitions are relative to a single key definition,  
! which occupies two longwords.  
!-  
  
KDB$B_KEY NUMBER = [0,0,8,0], ! Key number (0=primary)  
KDB$B_DTYPE = [0,8,8,0], ! Datatype code (DSC$K_DTYPE_x)  
KDB$B_SIZE = [0,16,8,0], ! Size of key in bytes  
KDB$L_OFFSET = [4,0,32,0] ! Offset of key in bytes  
  
TES; ! End of KDB
```

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

VAX-11 Bliss-32 V4.0-742 Page 10  
\_S255\$DUA28:[PASRTL.SRC]PASKDB.REQ;1 (1)

: R0330 0  
: R0331 0  
: R0332 0  
: R0333 0  
: R0334 0

MACRO

\$PASSKDB\_KEY\_DESCRIPTOR = BLOCK [, BYTE] FIELD (KDB\$FIELDS) %;

! End of file PASKDB.REQ

F 4  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:34

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 11 (1)

: 0335 0  
: 0336 0

REQUIRE 'RTLML:PAFCB';

! File Control Block (FCB\$) definitions

R0337 0  
R0338 0  
R0339 0  
R0340 0  
R0341 0  
R0342 0  
R0343 0  
R0344 0  
R0345 0  
R0346 0  
R0347 0  
R0348 0  
R0349 0  
R0350 0  
R0351 0  
R0352 0  
R0353 0  
R0354 0  
R0355 0  
R0356 0  
R0357 0  
R0358 0  
R0359 0  
R0360 0  
R0361 0  
R0362 0  
R0363 0  
R0364 0  
R0365 0  
R0366 0  
R0367 0  
R0368 0  
R0369 0  
R0370 0  
R0371 0  
R0372 0  
R0373 0  
R0374 0  
R0375 0  
R0376 0  
R0377 0  
R0378 0  
R0379 0  
R0380 0  
R0381 0  
R0382 0  
R0383 0  
R0384 0  
R0385 0  
R0386 0  
R0387 0  
R0388 0  
R0389 0  
R0390 0  
R0391 0  
R0392 0  
R0393 0

```
*****  
Created 15-SEP-1984 22:49:08 by VAX-11 SDL V2.0 Source: 15-SEP-1984 22:48:23 _S255SDUA28:[PASRTL.SRC]PASF  
*****  
  
!*** MODULE $FCBDEF IDENT 1-006 ***  
Literal FCBSK_CC_NULL = 0;  
Literal FCBSK_CC_LFNL = 1;  
Literal FCBSK_CC_NLCR = 36096;  
Literal FCBSK_CC_LFCR = 36097;  
Literal FCBSK_BLN = 68;  
FIELD FCB_STRUCT$FIELDSET =  
SET  
FCBSL_QUEUE_FLINK = [-68,0,32,0] .  
FCBSL_QUEUE_BLINK = [-64,0,32,0] .  
FCBSL_RECORD_NUMBER = [-56,0,32,0] .  
FCBSA_KEY_TYPES = [-52,0,32,0] .  
FCBSL_NKEYS = [-48,0,32,0] .  
FCBSL_STATUS = [-44,0,32,0] .  
FCBSL_COMPONENT = [-40,0,32,0] .  
FCBSA_PFV = [-36,0,32,0] .  
FCBSL_LINELIMIT = [-32,0,32,0] .  
FCBSA_PFD = [-28,0,32,0] .  
FCBSA_RECORD_BEG = [-24,0,32,0] .  
FCBSA_RECORD_CUR = [-20,0,32,0] .  
FCBSA_RECORD_END = [-16,0,32,0] .  
FCBSL_RECORD_LEN = [-12,0,32,0] .  
FCBSW_ATTRIB = [-8,0,16,0] .  
FCBSV_TEXT = [-8,0,1,0] .  
FCBSV_BINARY = [-8,1,1,0] .  
FCBSV_VARYING = [-8,2,1,0] .  
FCBSV_NOREAD = [-8,3,1,0] .  
FCBSV_NOWRITE = [-8,4,1,0] .  
FCBSV_EXTERN = [-8,5,1,0] .  
FCBSV_STATIC = [-8,6,1,0] .  
FCBSV_HEAP = [-8,7,1,0] .  
FCBSR_ATTRIB_BITS = [-8,0,16,0] .  
FCBSR_ATTRIB_OVERLAP = [-8,0,16,0] .  
FCBSW_PROMPT_CC = [-6,0,16,0] .  
FCBSL_OPTIONS1 = [-4,0,32,0] .  
FCBSV_SEQUENTIAL = [-4,0,1,0] .  
FCBSV_DIRECT = [-4,1,1,0] .  
FCBSV_KEYED = [-4,2,1,0] .  
FCBSV_READ_ONLY = [-4,3,1,0] .  
FCBSV_OLD_FILE = [-4,4,1,0] .  
FCBSV_SAVE = [-4,5,1,0] .  
FCBSV_DELETE = [-4,6,1,0] .  
FCBSV_PRINT = [-4,7,1,0] .  
FCBSV_SUBMIT = [-4,8,1,0] .  
FCBSV_USER_ACTION = [-4,9,1,0] .  
FCBSV_LAZY = [-4,10,1,0] .  
FCBSV_INSPECTION = [-4,11,1,0] .  
FCBSV_GENERATION = [-4,12,1,0] .  
FCBSV_EOF = [-4,13,1,0] .  
FCBSV_PROMPT_ENABLE = [-4,14,1,0] .  
FCBSV_PARTIAL_LINE = [-4,15,1,0] .  
FCBSV_LOCATE = [-4,16,1,0] .
```

```
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 FCBS$FCB_STRUCT = 69;
R0408 0      MACRO FCBSR_FCB_STRUCT = BLOCK [FCBS$FCB_STRUCT,byte] FIELD (FCB_STRUCT$FIELDSET) %;
```

```

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

```



R0420 0  
R0421 0  
R0422 0  
R0423 0  
R0424 0  
R0425 0  
R0426 0  
R0427 0  
R0428 0  
R0429 0  
R0430 0  
R0431 0  
R0432 0  
R0433 0  
R0434 0  
R0435 0  
R0436 0  
R0437 0  
R0438 0  
R0439 0  
R0440 0  
R0441 0  
R0442 0  
R0443 0  
R0444 0  
R0445 0  
R0446 0  
R0447 0  
R0448 0  
R0449 0  
R0450 0  
R0451 0  
R0452 0  
R0453 0  
R0454 0  
R0455 0  
R0456 0  
R0457 0  
R0458 0  
R0459 0  
R0460 0  
R0461 0  
R0462 0  
R0463 0  
R0464 0  
R0465 0  
R0466 0  
R0467 0  
R0468 0  
R0469 0  
R0470 0  
R0471 0  
R0472 0  
R0473 0  
R0474 0  
R0475 0  
R0476 0

PASOPEDEF.REQ - Pascal OPEN keyword value definitions.  
Version 1-003, Edit: SBL1003

```
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*****
```

AUTHOR: Steven B. Lionel

EDIT HISTORY:

1-001 - Original. SBL 1-April-1981  
1-002 - Reserve codes 30-37 to Elan Pascal. Get rid of masks, PROMPT  
keywords. Add stream recordtypes. SBL 8-Aug-1983  
1-003 - Reserve codes 41-42 to Elan Pascal. SBL 19-Dec-1983

Definitions of keyword codes used by PASSOPEN and PASSCLOSE.  
Masks are used to indicate that the keyword has already been seen.

LITERAL

|                                |      |
|--------------------------------|------|
| PASSK_OPEKEYLO                 | = 1. |
| PASSK_FILE_NAME                | = 1. |
| PASSK_DEFAULT_FILE_NAME        | = 2. |
| PASSK_HISTORY                  | = 3. |
| PASSK_HISTORY_OLD              | = 3. |
| PASSK_HISTORY_NEW              | = 4. |
| PASSK_HISTORY_UNKNOWN          | = 5. |
| PASSK_HISTORY_READONLY         | = 6. |
| PASSK_RECORD_LENGTH            | = 7. |
| PASSK_ACCESS_METHOD            | = 8. |
| 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
```

\* The following keyword values are reserved to VAX Elan Pascal. If any of these features are implemented in VAX-11 Pascal, the corresponding keyword value should be used.

```
R0515 0
R0516 0
R0517 0
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
```

L 4  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:44

VAX-11 BLISS-32 V4.0-742  
[PASRTL.SRC]PASOPEDEF.REQ;1

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

M 4  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:34

VAX-11 Bliss-32 V4.0-742  
\_ \$255\$DUA28:[PASRTL.SRC]PASLIB.REQ;1 Page 18  
(1)

: 0536 0  
: 0537 0

REQUIRE 'RTLIN:PASMACHOS';

. Useful macros

R0538 0  
R0539 0  
R0540 0  
R0541 0  
R0542 0  
R0543 0  
R0544 0  
R0545 0  
R0546 0  
R0547 0  
R0548 0  
R0549 0  
R0550 0  
R0551 0  
R0552 0  
R0553 0  
R0554 0  
R0555 0  
R0556 0  
R0557 0  
R0558 0  
R0559 0  
R0560 0  
R0561 0  
R0562 0  
R0563 0  
R0564 0  
R0565 0  
R0566 0  
R0567 0  
R0568 0  
R0569 0  
R0570 0  
R0571 0  
R0572 0  
R0573 0  
R0574 0  
R0575 0  
R0576 0  
MR0577 0  
MR0578 0  
MR0579 0  
MR0580 0  
R0581 0  
R0582 0  
R0583 0  
R0584 0  
R0585 0  
R0586 0  
R0587 0  
R0588 0  
R0589 0  
R0590 0  
R0591 0  
R0592 0  
R0593 0  
R0594 0

```
! Macros for Pascal Run-Time Library
! File: PASMACHOS.REQ, Edit: SBL1003
!
! *****
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! *****
!
! Author: Steven B. Lionel, 1-April-1981
!
! 1-001 - Original. SBL 1-April-1981
! 1-002 - Change $PASSRMS_OP so that it doesn't loop on RMS$_ACT unless the
!         file is on a disk device. SBL 29-July-1982
! 1-003 - Make that a disk or tape device. SBL 29-July-1982
!
!
! +
! Macro to signal a Pascal bugcheck.
!
!
! MACRO
!   $PASSBUGCHECK (bugname) =
!     BEGIN
!       PASS$BUGCHECK (bugname);
!       RETURN 0;
!     END %;
!
! +
! Macro to signal an I/O error. The source code specifies the first
! message as a PASS$_xxx symbol. This macro changes it to a PASSK_XXX
! symbol to result in shorter code. If it is desired to change back,
! only this macro need be modified.
!
!
! MACRO
!
! +
! Internal macro MOD_SIG_NAME takes as its argument a sequence
! of characters which is the exploded PASS$_xxx signal name and returns
```

```
R0595 0      ! the equivalent name PASSK_xxx. It is only used by $PASSIO_ERROR.
R0596 0      !
MR0597 0      MOD_SIG_NAME (cP,cA,cS,c$,c) =
R0598 0      -%NAME ('PASSK_',%REMAINING) %,
R0599 0
MR0600 0      $PASSIO_ERROR (signame) =
MR0601 0      BEGIN
MR0602 0      PASS$SIGNAL (PFV [PFV$R PFV], MOD_SIG_NAME(%EXPLODE(signame))
MR0603 0      %IF %NULL(%REMAINING)
MR0604 0      %THEN
MR0605 0      %ELSE
MR0606 0      %FI,%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 RMSS_ACT if a disk or tape device.
R0614 0      !-
R0615 0
R0616 0      MACRO
MR0617 0      $PASSRMS_OP (rms_op) =
MR0618 0      BEGIN
MR0619 0      LOCAL
MR0620 0      $$STATUS;
MR0621 0      DO $$STATUS = (rms_op) UNTIL (.$$STATUS OR (.$$STATUS NEQ RMSS_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 $PASSFAB_FCB_STRUCT,
R0632 0      NAM = FCB: REF $PASSNAM_FCB_STRUCT;
R0633 0
R0634 0      !-
R0635 0
R0636 0      STRUCTURE
R0637 0      $PASSFAB_FCB_STRUCT [O, P, S, E] =
R0638 0      [FAB$C_BLN]
R0639 0      ($PASSFAB_FCB_STRUCT+RAB$C_BLN+O)<P,S,E>,
R0640 0
R0641 0      $PASSNAM_FCB_STRUCT [O, P, S, E] =
R0642 0      [NAM$C_BLN]
R0643 0      ($PASSNAM_FCB_STRUCT+RAB$C_BLN+FAB$C_BLN+O)<P,S,E>;
R0644 0
R0645 0      ! End of file PASMACROS.REQ
```

C 5  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:34

: 0646 0  
: 0647 0

REQUIRE 'RTLIN:PASBUGCOD';

! Bugcheck code definitions

R0648 0  
R0649 0  
R0650 0  
R0651 0  
R0652 0  
R0653 0  
R0654 0  
R0655 0  
R0656 0  
R0657 0  
R0658 0  
R0659 0  
R0660 0  
R0661 0  
R0662 0  
R0663 0  
R0664 0  
R0665 0  
R0666 0  
R0667 0  
R0668 0  
R0669 0  
R0670 0  
R0671 0  
R0672 0  
R0673 0  
R0674 0  
R0675 0  
R0676 0  
R0677 0  
R0678 0  
R0679 0  
R0680 0  
R0681 0  
R0682 0  
R0683 0  
R0684 0  
R0685 0  
R0686 0  
R0687 0  
R0688 0  
R0689 0  
R0690 0  
R0691 0  
R0692 0  
R0693 0  
R0694 0  
R0695 0  
R0696 0

Bugcheck codes for Pascal Run-Time Library  
File: PASBUGCOD.REQ, Edit: SBL1001

```
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*****
```

Author: Steven B. Lionel, 1-April-1981

1-001 - Original. SBL 1-April-1981

\* Bugcheck codes for PASS\$BUGCHECK. These codes are used as the FAO  
parameter to the PASS\$BUGCHECK message when it is signalled.

```
LITERAL  
BUG_FQNOTINIT      = 1,      | File queue not initialized  
                     | PASS$FILE_UTIL  
BUG_FREEVMFAIL     = 2,      | Call to LIB$FREE_VM failed  
                     | PASS$VM  
BUG_UNWINDFAIL     = 3,      | Call to $UNWIND failed  
                     | PASS$IO_HANDLER  
BUG_BADVMSIZE      = 4,      | GET VM of more than 65535 bytes.  
                     | PASS$VM  
BUG_BADKEYDTP      = 5;      | Bad key datatype from RMS  
                     | PASS$OPEN2
```

! End of file PASBUGCOD.REQ



: 0697 0  
: 0698 0

REQUIRE 'RTLIN:PAEXTERN';

: 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\$END 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  
R0742 0  
R0743 0  
R0744 0  
R0745 0  
R0746 0  
R0747 0  
R0748 0  
R0749 0  
R0750 0  
R0751 0  
R0752 0  
R0753 0  
R0754 0  
R0755 0  
R0756 0  
R0757 0  
R0758 0  
R0759 0  
R0760 0  
R0761 0  
R0762 0  
R0763 0  
R0764 0  
R0765 0  
R0766 0  
R0767 0  
R0768 0  
R0769 0  
R0770 0  
R0771 0  
R0772 0  
R0773 0  
R0774 0  
R0775 0  
R0776 0  
R0777 0  
R0778 0  
R0779 0  
R0780 0  
R0781 0  
R0782 0  
R0783 0  
R0784 0  
R0785 0  
R0786 0  
R0787 0  
R0788 0  
R0789 0  
R0790 0  
R0791 0  
R0792 0  
R0793 0  
R0794 0  
R0795 0  
R0796 0

```
+ Define linkages used for internal calls in the Pascal RTL support
-
In these linkages, R6 is always used to pass the PFV and R7 is always
used to pass the FCB.

LINKAGE
JSB_INIT_WRITE =
  JSB (REGISTER=6, REGISTER=7; REGISTER=7):
    NOTUSED(8,9,10,11) NOPRESERVE(2,3,4,5),
JSB_END_WRITE =
  JSB (REGISTER=6, REGISTER=7):
    NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),
JSB_DO_WRITE =
  JSB (REGISTER=6, REGISTER=7, REGISTER=8):
    NOTUSED(9,10,11) NOPRESERVE(2,3,4,5),
JSB_INIT_READ =
  JSB (REGISTER=6, REGISTER=7; REGISTER=7):
    NOTUSED(8,9,10,11) NOPRESERVE(2,3,4,5),
JSB_END_READ =
  JSB (REGISTER=6, REGISTER=7):
    NOTUSED(0,1,2,3,4,5,8,9,10,11),
JSB_VALIDATE_PFV =
  JSB (REGISTER=6; REGISTER=7):
    NOTUSED(3,4,5,8,9,10,11) NOPRESERVE(2),
JSB_READ_UTIL =
  JSB (REGISTER=6, REGISTER=7; REGISTER=4, REGISTER=5, REGISTER=7):
    NOTUSED(9,10,11) NOPRESERVE(2,3,8),
JSB_FIND_NON_BLANK =
  JSB (REGISTER=6, REGISTER=7; REGISTER=7):
    NOPRESERVE(2,3,8) NOTUSED(4,5,9,10,11),
JSB_CLOSE_LOCAL =
  JSB : PRESERVE(0,1) NOPRESERVE(2,3) NOTUSED(4,5,6,7,8,9,10,11),
JSB_DO_READV =
  JSB (REGISTER=6, REGISTER=2, REGISTER=3, REGISTER=4; REGISTER=0, REGISTER=1):
    NOPRESERVE(2,3,4,6) NOTUSED(5,7,8,9,10,11),
JSB_DO_WRITEV =
  JSB (REGISTER=6, REGISTER=2, REGISTER=3, REGISTER=4, REGISTER=5):
    NOPRESERVE(2,3,4,5,6) NOTUSED(7,8,9,10,11),
JSB_GET =
  JSB (REGISTER=6, REGISTER=7):
    NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),
JSB_LOOK_AHEAD =
  JSB (REGISTER=6, REGISTER=7; REGISTER=7):
    NOTUSED(4,5,8,9,10,11) NOPRESERVE(2,3),
JSB_OPEN_IMPLICIT =
  JSB (REGISTER=6, REGISTER=7; REGISTER=7):
    NOTUSED(3,4,5,8,9,10,11) NOPRESERVE(2),
JSB_PROMPT_FILE =
  JSB (REGISTER=6, REGISTER=7):
    NOTUSED(2,3,4,5,8,9,10,11),
JSB_WRITELN =
  JSB (REGISTER=6, REGISTER=7):
    NOTUSED(8,9,10,11) NOPRESERVE(2,3,4,5),
CALL_VAL01 =
  CALL (; REGISTER=0, REGISTER=1),
```

M 5  
16-Sep-1984 01:18:43  
15-Sep-1984 22:48:20

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[PASRTL.SPC]PASEXTERN.REQ,1

```
.. 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  
R0808 0  
R0809 0  
R0810 0  
R0811 0  
R0812 0  
R0813 0  
R0814 0  
R0815 0  
R0816 0  
R0817 0  
R0818 0  
R0819 0  
R0820 0  
R0821 0  
R0822 0  
R0823 0  
R0824 0  
R0825 0  
R0826 0  
R0827 0  
R0828 0  
R0829 0  
R0830 0  
R0831 0  
R0832 0  
R0833 0  
R0834 0  
R0835 0  
R0836 0  
R0837 0  
R0838 0  
R0839 0  
R0840 0  
R0841 0  
R0842 0  
R0843 0  
R0844 0  
R0845 0  
R0846 0  
R0847 0  
R0848 0  
R0849 0  
R0850 0  
R0851 0  
R0852 0  
R0853 0  
R0854 0  
R0855 0  
R0856 0  
R0857 0  
R0858 0  
R0859 0  
R0860 0  
R0861 0  
R0862 0

\* Define all globals declared in all Pascal-specific BLISS modules and those non-BLISS modules which are referenced by BLISS modules.

EXTERNAL ROUTINE

! Module PASS\$BIN  
PASS\$BIN: NOVALUE,  
  
! Module PASS\$CLOSE2  
PASS\$CLOSE2: NOVALUE,  
PASS\$CLOSE: NOVALUE,  
  
! Module PASS\$CVTRT  
PASS\$CVT\_F\_T,  
PASS\$CVT\_D\_T,  
PASS\$CVT\_G\_T,  
PASS\$CVT\_H\_T,  
  
! Module PASSEOF2  
PASSEOF2,  
  
! Module PASSEOLN2  
PASSEOLN2,  
  
! Module PASS\$DELETE  
PASS\$DELETE: NOVALUE,  
  
! Module PASS\$FILE\_UTIL  
PASS\$ADD\_FILE: NOVALUE,  
PASS\$REMOVE\_FILE: NOVALUE,  
PASS\$PROMPT\_ALL: NOVALUE,  
PASS\$PROMPT\_FILE: JSB\_PROMPT\_FILE NOVALUE,  
PASS\$CLOSE\_ALL: NOVALUE,  
PASS\$CLOSE\_LOCAL R3: JSB\_CLOSE\_LOCAL NOVALUE,  
PASS\$CLOSE\_LOCAL: JSB\_CLOSE\_LOCAL NOVALUE,  
  
! Module PASS\$FIND2  
PASS\$FIND2: NOVALUE,  
  
! Module PASS\$FINDK  
PASS\$FINDK: NOVALUE,  
  
! Module PASS\$GET  
PASS\$GET: NOVALUE,  
PASS\$GET\_UNLOCK: NOVALUE,  
PASS\$GET: JSB\_GET NOVALUE,  
  
! Module PASS\$GOTO  
PASS\$GOTO: NOVALUE,  
PASS\$GOTO\_HANDLER,  
PASS\$UNWIND\_GOTO,  
  
! Module PASS\$HALT  
PASS\$HALT: NOVALUE,

```
R0863 0 ! Module PASS$HANDLER
R0864 0 PASS$HANDLER,
R0865 0
R0866 0 ! Module PASS$HEAP
R0867 0 PASS$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$OPEN_IMPLICIT: JSB_OPEN_IMPLICIT NOVALUE,
R0895 0
R0896 0 ! Module PASS$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$GET_ENUMERATED: JSB_READ_UTIL,
R0921 0
R0922 0      ! Module PASS$READ_ENUMERATED
R0923 0      PASS$READ_ENUMERATED,
R0924 0      PASS$READV_ENUMERATED,
R0925 0
R0926 0      ! Module PASS$READ_INTEGER
R0927 0      PASS$READ_INTEGER,
R0928 0      PASS$READV_INTEGER,
R0929 0
R0930 0      ! Module PASS$READ_REAL_D
R0931 0      PASS$READ_REAL_D: CALL_VAL01_NOVALUE,
R0932 0      PASS$READV_REAL_D: CALL_VAL01_NOVALUE,
R0933 0
R0934 0      ! Module PASS$READ_REAL_F
R0935 0      PASS$READ_REAL_F,
R0936 0      PASS$READV_REAL_F,
R0937 0
R0938 0      ! Module PASS$READ_REAL_G
R0939 0      PASS$READ_REAL_G: CALL_VAL01_NOVALUE,
R0940 0      PASS$READV_REAL_G: CALL_VAL01_NOVALUE,
R0941 0
R0942 0      ! Module PASS$READ_REAL_H
R0943 0      PASS$READ_REAL_H: NOVALUE,
R0944 0      PASS$READV_REAL_H: NOVALUE,
R0945 0
R0946 0      ! Module PASS$READ_STRING1
R0947 0      PASS$READ_STRING1: NOVALUE,
R0948 0
R0949 0      ! Module PASS$READ_STRING
R0950 0      PASS$READ_STRING: NOVALUE,
R0951 0      PASS$READV_STRING: NOVALUE,
R0952 0
R0953 0      ! Module PASS$READ_UNSIGNED
R0954 0      PASS$READ_UNSIGNED,
R0955 0      PASS$READV_UNSIGNED,
R0956 0
R0957 0      ! Module PASS$READ_VARYING
R0958 0      PASS$READ_VARYING: NOVALUE,
R0959 0      PASS$READV_VARYING: NOVALUE,
R0960 0
R0961 0      ! Module PASS$RESET2
R0962 0      PASS$RESET2: NOVALUE,
R0963 0
R0964 0      ! Module PASS$RESETK
R0965 0      PASS$RESETK: NOVALUE,
R0966 0
R0967 0      ! Module PASS$REWRITE2
R0968 0      PASS$REWRITE2: NOVALUE,
R0969 0
R0970 0      Module PASS$$SIGNAL
R0971 0      PASS$$SIGNAL: CALL_SIGNAL_NOVALUE,
R0972 0      PASS$$BUCCHECK: NOVALUE,
R0973 0
R0974 0      ! Module PASS$STATUS
R0975 0      PASS$STATUS,
R0976 0

```

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



```
R1034 0 PASSWRITEV_REALG_G: NOVALUE,  
R1035 0  
R1036 0 ! Module PASSWRITE REALG_H  
R1037 0 PASSWRITE_REALG_H: NOVALUE,  
R1038 0 PASSWRITEV_REALG_H: NOVALUE,  
R1039 0  
R1040 0 ! Module PASSWRITE REALF_D  
R1041 0 PASSWRITE_REALF_D: NOVALUE,  
R1042 0 PASSWRITEV_REALF_D: NOVALUE,  
R1043 0  
R1044 0 ! Module PASSWRITE REALF_D1  
R1045 0 PASSWRITE_REALF_D1: NOVALUE,  
R1046 0  
R1047 0 ! Module PASSWRITE REALF_F  
R1048 0 PASSWRITE_REALF_F: NOVALUE,  
R1049 0 PASSWRITEV_REALF_F: NOVALUE,  
R1050 0  
R1051 0 ! Module PASSWRITE REALF_F1  
R1052 0 PASSWRITE_REALF_F1: NOVALUE,  
R1053 0  
R1054 0 ! Module PASSWRITE REALF_G  
R1055 0 PASSWRITE_REALF_G: NOVALUE,  
R1056 0 PASSWRITEV_REALF_G: NOVALUE,  
R1057 0  
R1058 0 ! Module PASSWRITE REALF_H  
R1059 0 PASSWRITE_REALF_H: NOVALUE,  
R1060 0 PASSWRITEV_REALF_H: NOVALUE,  
R1061 0  
R1062 0 ! Module PASSWRITE STRING  
R1063 0 PASSWRITE_STRING: NOVALUE,  
R1064 0 PASSWRITEV_STRING: NOVALUE,  
R1065 0  
R1066 0 ! Module PASSWRITELN2  
R1067 0 PASSWRITELN2: NOVALUE,  
R1068 0 PASSWRITELN: JSB WRITELN NOVALUE,  
R1069 0 PASS$INIT_WRITE: JSB_INIT_WRITE NOVALUE,  
R1070 0 PASS$END_WRITE: JSB_END_WRITE NOVALUE,  
R1071 0 PASS$DO_WRITEV: JSB_DO_WRITEV NOVALUE,  
R1072 0  
R1073 0 ! Module PASSWRITE UNSIGNED  
R1074 0 PASSWRITE_UNSIGNED: NOVALUE,  
R1075 0 PASSWRITEV_UNSIGNED: NOVALUE,  
R1076 0  
R1077 0 ! Module PASSWRITE VARYING  
R1078 0 PASSWRITE_VARYING: NOVALUE,  
R1079 0 PASSWRITEV_VARYING: NOVALUE;  
R1080 0  
R1081 0 EXTERNAL  
R1082 0  
R1083 0 ! Module PASS$FV INPUT  
R1084 0 PASS$FV_INPUT: $PASS$FV_FILE_VARIABLE WEAK,  
R1085 0  
R1086 0 ! Module PASS$FV OUTPUT  
R1087 0 PASS$FV_OUTPUT: $PASS$FV_FILE_VARIABLE WEAK,  
R1088 0  
R1089 0 ! Module PASS$OPEN2  
R1090 0 PASS$GV_INPUT_OPENED: BYTE,
```

: R1091 0  
: R1092 0  
: R1093 0  
: R1094 0  
: R1095 0  
: R1096 0  
: R1097 C  
: R1098 0  
: R1099 0  
: R1100 0  
: R1101 0  
: R1102 0  
: R1103 0  
: R1104 0  
: R1105 0  
: R1106 0  
: R1107 0  
: R1108 0  
: R1109 0

```
PASS$GV_OUTPUT_OPENED: BYTE,  
PASS$AB_KEYWD_NAME_TABLE: VECTOR [PASS$OPEKEYHI+1, BYTE],  
! Module PASS$READ_BOOLEAN  
PASS$GR_BOOLEAN_PETD: VECTOR [4, LONG];  
  
EXTERNAL  
! Module PASS$VALIDATE_PFV  
PASS$VALIDATE_PFV_END; ! Not a routine!  
  
EXTERNAL LITERAL  
! Module PASS$MSGDEF  
PASS$K_MSGV2LO: UNSIGNED(16),  
PASS$K_MSGCONTLO: UNSIGNED(16),  
PASS$K_MSGCONTHI: UNSIGNED(16),  
PASS$K_MSGPFVHI: UNSIGNED(16),  
PASS$K_MSGCHKBAS: UNSIGNED(16);
```

R1110 0  
R1111 0  
R1112 0  
R1113 0  
R1114 0  
R1115 0  
R1116 0  
R1117 0  
R1118 0  
R1119 0  
R1120 0  
R1121 0  
R1122 0  
R1123 0  
R1124 0  
R1125 0  
R1126 0  
R1127 0  
R1128 0  
R1129 0  
R1130 0  
R1131 0  
R1132 0

!+ Define non-Pascal routines called by Pascal RTL.  
-

EXTERNAL ROUTINE

LIB\$CVT\_DTB,  
LIB\$FREE\_VM,  
LIB\$GET\_OPCODE,  
LIB\$GET\_VM,

OT\$SCVT\_L\_TB,  
OT\$SCVT\_L\_TI,  
OT\$SCVT\_L\_TO,  
OT\$SCVT\_L\_TZ,  
OT\$SCVT\_TB\_L,  
OT\$SCVT\_TI\_L,  
OT\$SCVT\_TO\_L,  
OT\$SCVT\_TZ\_L,  
OT\$SCVT\_T\_F,  
OT\$SCVT\_T\_D,  
OT\$SCVT\_T\_G,  
OT\$SCVT\_T\_H;

R1133 0  
R1134 0  
R1135 0  
R1136 0  
R1137 0  
R1138 0  
R1139 0  
R1140 0  
R1141 0  
R1142 0  
R1143 0  
R1144 0  
R1145 0  
R1146 0  
R1147 0  
R1148 0  
R1149 0  
R1150 0  
R1151 0  
R1152 0  
R1153 0  
R1154 0  
R1155 0  
R1156 0  
R1157 0  
R1158 0  
R1159 0  
R1160 0  
R1161 0  
R1162 0  
R1163 0  
R1164 0  
R1165 0  
R1166 0  
R1167 0  
R1168 0  
R1169 0  
R1170 0  
R1171 0  
R1172 0  
R1173 0  
R1174 0  
R1175 0  
R1176 0  
R1177 0  
R1178 0  
R1179 0  
R1180 0  
R1181 0  
R1182 0  
R1183 0  
R1184 0  
R1185 0  
R1186 0  
R1187 0  
R1188 0  
R1189 0

+ Define condition codes used by Pascal RTL routines.  
-

EXTERNAL LITERAL

! Errors signalled with \$PASSIO\_ERROR

PASSK\_ACCMETINC: UNSIGNED(8),  
PASSK\_AMBVALENU: UNSIGNED(8),  
PASSK\_CURCOMUND: UNSIGNED(8),  
PASSK\_DELNOTALL: UNSIGNED(8),  
PASSK\_ERRDURCLO: UNSIGNED(8),  
PASSK\_ERRDURDEL: UNSIGNED(8),  
PASSK\_ERRDURGET: UNSIGNED(8),  
PASSK\_ERRDURFIN: UNSIGNED(8),  
PASSK\_ERRDUROPE: UNSIGNED(8),  
PASSK\_ERRDURPRO: UNSIGNED(8),  
PASSK\_ERRDURPUT: UNSIGNED(8),  
PASSK\_ERRDURRE: UNSIGNED(8),  
PASSK\_ERRDURREW: UNSIGNED(8),  
PASSK\_ERRDURTRU: UNSIGNED(8),  
PASSK\_ERRDURUNL: UNSIGNED(8),  
PASSK\_ERRDURUPD: UNSIGNED(8),  
PASSK\_ERRDURWRI: UNSIGNED(8),  
PASSK\_FAIGETLOC: UNSIGNED(8),  
PASSK\_FILALRCLO: UNSIGNED(8),  
PASSK\_FILALROPE: UNSIGNED(8),  
PASSK\_FILNAMREQ: UNSIGNED(8),  
PASSK\_FILNOTOPE: UNSIGNED(8),  
PASSK\_FILNOTTEX: UNSIGNED(8),  
PASSK\_FILNOTFOU: UNSIGNED(8),  
PASSK\_FILNOTKEY: UNSIGNED(8),  
PASSK\_FILNOTINS: UNSIGNED(8),  
PASSK\_FILNOTDIR: UNSIGNED(8),  
PASSK\_FILNOTGEN: UNSIGNED(8),  
PASSK\_FILNOTSEQ: UNSIGNED(8),  
PASSK\_GETAFTEOF: UNSIGNED(8),  
PASSK\_GENNOTALL: UNSIGNED(8),  
PASSK\_KEYNOTDEF: UNSIGNED(8),  
PASSK\_KEYDEFINC: UNSIGNED(8),  
PASSK\_KEYCHANOT: UNSIGNED(8),  
PASSK\_KEYDUPNOT: UNSIGNED(8),  
PASSK\_KEYVALINC: UNSIGNED(8),  
PASSK\_INSNOTALL: UNSIGNED(8),  
PASSK\_INSVIRMEM: UNSIGNED(8),  
PASSK\_INVARGPAS: UNSIGNED(8),  
PASSK\_INVFILVAR: UNSIGNED(8),  
PASSK\_INVFILSYN: UNSIGNED(8),  
PASSK\_INVKEYDEF: UNSIGNED(8),  
PASSK\_INVRECIO: UNSIGNED(8),  
PASSK\_INVRECLEN: UNSIGNED(8),  
PASSK\_INVSYNINT: UNSIGNED(8),  
PASSK\_INVSYNREA: UNSIGNED(8),  
PASSK\_INVSYNENU: UNSIGNED(8),  
PASSK\_INVSYNUNS: UNSIGNED(8),  
PASSK\_LINTOOLON: UNSIGNED(8),

```
R1190 0 PASSK_LINVALEX: UNSIGNED(8),
R1191 0 PASSK_NEGWIDDIG: UNSIGNED(8),
R1192 0 PASSK_NOTVALTYP: UNSIGNED(8),
R1193 0 PASSK_ORGSPEINC: UNSIGNED(8),
R1194 0 PASSK_RECLEINCL: 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_WRIINVENTU: UNSIGNED(8),
R1203 0
```

! Errors signalled with LIB\$STOP

```
R1204 0
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_GOTOFAILED,
R1215 0 PASS_HALT,
R1216 0 PASS_INVFILVAR,
R1217 0 PASS_NEGDIGARG,
```

```
R1218 0
R1219 0 PASS_ARRINDVAL, ! Used by PASSHANDLER
R1220 0 PASS_BASE,
R1221 0 PASS_FACILITY: UNSIGNED(6),
R1222 0 PASSK_IGNORE: UNSIGNED(6); ! Used by PASSHANDLER
R1223 0
```

R1224 C ! End of PASEXTERN.REQ

```
: 1225 0  
: 1226 0  
: 1227 0 !+ Declare codes for unwind actions for PASS$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                                | -----<br>Total | Symbols<br>Loaded | -----<br>Percent | Pages<br>Mapped | Processing<br>Time |
|-------------------------------------|----------------|-------------------|------------------|-----------------|--------------------|
| _\$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
```

