G 6

```
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSSS  RRRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSSS  RRRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSSS  RRRRRRRRRRRR     TTTTTTTTTTTTTTT  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     SSSSSSSSS     RRRRRRRRRRRR           TTT        LLL
PPPPPPPPPPPP     AAA         AAA     SSSSSSSSS     RRRRRRRRRRRR           TTT        LLL
PPPPPPPPPPPP     AAA         AAA     SSSSSSSSS     RRRRRRRRRRRR           TTT        LLL
PPP              AAAAAAAAAAAAAAA              SSS  RRR   RRR              TTT        LLL
PPP              AAAAAAAAAAAAAAA              SSS  RRR   RRR              TTT        LLL
PPP              AAAAAAAAAAAAAAA              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        LLLLLLLLLLLLLLL
PPP              AAA         AAA  SSSSSSSSSSSS     RRR         RRR        TTT        LLLLLLLLLLLLLLL
PPP              AAA         AAA  SSSSSSSSSSSS     RRR         RRR        TTT        LLLLLLLLLLLLLLL
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_$2

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FILEID**PASWRIBOO

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PPPPPPPP      AAAAAA      SSSSSSSS  WW      WW  RRRRRRRR      IIIIII    BBBBBBBB      OOOOOO      OOOOOO
PPPPPPPP      AAAAAA      SSSSSSSS  WW      WW  RRRRRRRR      IIIIII    BBBBBBBB      OOOOOO      OOOOOO
PP      PP  AA      AA  SS          WW      WW  RR      RR      II      BB      BB  OO      OO  OO      OO
PP      PP  AA      AA  SS          WW      WW  RR      RR      II      BB      BB  OO      OO  OO      OO
PP      PP  AA      AA  SS          WW      WW  RR      RR      II      BB      BB  OO      OO  OO      OO
PP      PP  AA      AA  SS          WW      WW  RR      RR      II      BB      BB  OO      OO  OO      OO
PPPPPPPP    AA      AA    SSSSSS    WW      WW  RRRRRRRR        II      BBBBBBBB    OO      OO  OO      OO
PPPPPPPP    AA      AA    SSSSSS    WW      WW  RRRRRRRR        II      BBBBBBBB    OO      OO  OO      OO
PP          AAAAAAAAAA          SS  WW  WW  WW  RR  RR          II      BB      BB  OO      OO  OO      OO
PP          AAAAAAAAAA          SS  WW  WW  WW  RR  RR          II      BB      BB  OO      OO  OO      OO
PP          AA      AA          SS  WWWW  WWWW  RR    RR        II      BB      BB  OO      OO  OO      OO      ....
PP          AA      AA          SS  WWWW  WWWW  RR    RR        II      BB      BB  OO      OO  OO      OO      ....
PP          AA      AA  SSSSSSSS    WW      WW  RR      RR    IIIIII    BBBBBBBB      OOOOOO      OOOOOO        ....
PP          AA      AA  SSSSSSSS    WW      WW  RR      RR    IIIIII    BBBBBBBB      OOOOOO      OOOOOO        ....


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
```

```
0 MODULE PAS$WRITE_BOOLEAN ( %TITLE 'Write a boolean value'
0                 IDENT = '1-002'                 ! File: PASWRIB00.B32 Edit: SBL1002
0                 ) =
1 BEGIN
1 !
1 !****************************************************************************
1 !*                                                                          *
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1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
1 !*                                                                          *
1 !*                                                                          *
1 !****************************************************************************
1 !
1
1 !++
1 ! FACILITY:     Pascal Language Support
1 !
1 ! ABSTRACT:
1 !
1 !       This module contains a procedure which writes a boolean value
1 !       to a textfile.
1 !
1 ! ENVIRONMENT:  User mode - AST reentrant
1 !
1 ! AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
1 !
1 ! MODIFIED BY:
1 !
1 ! 1-001 - Original.  SBL 1-April-1981
1 ! 1-002 - Make total-width a longword.  SBL 29-Jun-1982
1 !--
1
```

```
;    49          0048  1 %SBTTL 'Declarations'
;    50          0049  1 !
;    51          0050  1 ! PROLOGUE DEFINITIONS:
;    52          0051  1 !
;    53          0052  1
;    54          0053  1 REQUIRE 'RTLIN:PASPROLOG';                   ! Externals, linkages, PSECTs, structures
;    55          0117  1
;    56          0118  1 !
;    57          0119  1 ! TABLE OF CONTENTS:
;    58          0120  1 !
;    59          0121  1
;    60          0122  1 FORWARD ROUTINE
;    61          0123  1     PAS$WRITE_BOOLEAN: NOVALUE,              ! Write to textfile
;    62          0124  1     PAS$WRITEV_BOOLEAN: NOVALUE;             ! Write to string
;    63          0125  1
;    64          0126  1 !
;    65          0127  1 ! MACROS:
;    66          0128  1 !
;    67          0129  1 !       NONE
;    68          0130  1 !
;    69          0131  1 ! EQUATED SYMBOLS:
;    70          0132  1 !
;    71          0133  1 !       NONE
;    72          0134  1 !
;    73          0135  1 ! FIELDS:
;    74          0136  1 !
;    75          0137  1 !       NONE
;    76          0138  1 !
;    77          0139  1 ! OWN STORAGE:
;    78          0140  1 !
;    79          0141  1 !       NONE
;    80          0142  1 !
```

```
1 %SBTTL 'PAS$WRITE_BOOLEAN - Write a boolean to textfile'
1 GLOBAL ROUTINE PAS$WRITE_BOOLEAN (
1         PFV: REF $PAS$PFV_FILE_VARIABLE,              ! File variable
1         BOOLEAN: BITVECTOR [1],                       ! Value to write
1         TOTAL_WIDTH: SIGNED,                          ! Total field width
1         ERROR                                         ! Error unwind address
1     ): NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This procedure writes a boolean value to the specified textfile.
1 !
1 ! CALLING SEQUENCE:
1 !
1 !       CALL PAS$WRITE_BOOLEAN (PFV.mr.r, BOOLEAN.rv.v, TOTAL_WIDTH.rl.v
1 !                               [ERROR.j.r])
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       PFV             - The Pascal File Variable (PFV) passed by reference.
1 !                         The structure of the PFV is defined in PASPFV.REQ.
1 !
1 !       BOOLEAN         - The boolean value to write.
1 !
1 !       TOTAL_WIDTH     - Total field width.
1 !
1 !       ERROR           - Optional.  Address to unwind to if an error occurs.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       If the file is the standard file INPUT or OUTPUT, it is implicitly opened.
1 !
1 ! SIGNALLED ERRORS:
1 !
1 !       See PAS$WRITE_ENUMERATED
1 !
1 !--
1
2     BEGIN
2
2     LOCAL
2         PFV_ADDR: VOLATILE,                           ! Enable argument
2         UNWIND_ACT: VOLATILE,                         ! Enable argument
2         ERROR_ADDR: VOLATILE;                         ! Enable argument
```

```
;  139          0200  2
;  140          0201  2      BUILTIN
;  141          0202  2          ACTUALCOUNT;
;  142          0203  2
;  143          0204  2      ENABLE
;  144          0205  2          PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);      ! Enable error handler
;  145          0206  2
;  146          0207  2      !+
;  147          0208  2      ! Get ERROR parameter, if present.
;  148          0209  2      !-
;  149          0210  2
;  150          0211  2      IF ACTUALCOUNT () GEQU 4
;  151          0212  2      THEN
;  152          0213  2          ERROR_ADDR = .ERROR;             ! Set unwind address
;  153          0214  2
;  154          0215  2      PFV_ADDR = PFV [PFV$R_PFV];                    ! Set PFV address
;  155          0216  2
;  156          0217  2      !+
;  157          0218  2      ! Call PAS$WRITE_ENUMERATED to do the work.
;  158          0219  2      .-
;  159          0220  2
;  160          0221  2      PAS$WRITE_ENUMERATED (
;  161          0222  2          PFV [PFV$R_PFV],           ! File variable
;  162          0223  2          PAS$$GR_BOOLEAN_PETD,      ! Enumerated type descriptor for type BOOLEAN
;  163          0224  2          .BOOLEAN [0],              ! Value to write
;  164          0225  2          .TOTAL_WIDTH);             ! Field width
;  165          0226  2
;  166          0227  2      RETURN;
;  167          0228  2
;  168          0229  1      END;                                           ! End of routine PAS$WRITE_BOOLEAN


                                                                    .TITLE  PAS$WRITE_BOOLEAN Write a boolean value
                                                                    .IDENT  \1-002\

                                                                    .EXTRN  PAS$WRITE_BOOLEAN
                                                                    .EXTRN  PAS$WRITEV_BOOLEAN
                                                                    .EXTRN  PAS$$IO_HANDLER
                                                                    .EXTRN  PAS$WRITE_ENUMERATED
                                                                    .EXTRN  PAS$$GR_BOOLEAN_PETD

                                                                    .PSECT  _PAS$CODE,NOWRT,  SHR,  PIC,2

                                                   0000 00000       .ENTRY  PAS$WRITE_BOOLEAN, Save nothing                 ; 0144
                                  5E            08  C2 00002        SUBL2   #8, SP                                          ;
                                                7E  D4 00005        CLRL    ERROR_ADDR                                      ; 0194
                                         04     AE  7C 00007        CLRQ    UNWIND_ACT                                      ;
                                  6D   0029     CF  DE 0000A        MOVAL   2$, (FP)                                        ;
                                  04            6C  91 0000F        CMPB    (AP), #4                                        ; 0211
                                                04  1F 00012        BLSSU   1$                                              ;
                                  6E     10     AC  D0 00014        MOVL    ERROR, ERROR_ADDR                               ; 0213
                             08   AE     04     AC  D0 00018 1$:    MOVL    PFV, PFV_ADDR                                   ; 0215
                                         0C     AC  DD 0001D        PUSHL   TOTAL_WIDTH                                     ; 0225
            7E       08   AC      01            00  EF 00020        EXTZV   #0, #1, BOOLEAN, -(SP)                          ; 0224
                                   00000000G    00  9F 00026        PUSHAB  PAS$$GR_BOOLEAN_PETD                            ; 0222
                                         04     AC  DD 0002C        PUSHL   PFV                                             ;
                       00000000G  00            04  FB 0002F        CALLS   #4, PAS$WRITE_ENUMERATED                        ;
```

```
                                                  04 00036          RET                                        ; 0229
                                                0000 00037 2$:      .WORD   Save nothing                       ; 0194
                                 50       08   AC  D0 00039         MOVL    8(AP), R0                          ;
                                 50       04   A0  D0 0003D         MOVL    4(R0), R0                          ;
                                          F4   A0  9F 00041         PUSHAB  ERROR_ADDR                         ;
                                          F8   A0  9F 00044         PUSHAB  UNWIND_ACT                         ;
                                          FC   A0  9F 00047         PUSHAB  PFV_ADDR                           ;
                                               03  DD 0004A         PUSHL   #3                                 ;
                                               5E  DD 0004C         PUSHL   SP                                 ;
                                 7E       04   AC  7D 0004E         MOVQ    4(AP), -(SP)                       ;
                        00000000G  00          03  FB 00052         CALLS   #3, PAS$$IO_HANDLER                ;
                                                  04 00059          RET                                        ;

; Routine Size:  90 bytes,    Routine Base:  _PAS$CODE + 0000


;  169          0230  1
;  170          0231  1 !<BLF/PAGE>
```

```
1 %SBTTL 'PAS$WRITEV_BOOLEAN - Write BOOLEAN to string'
1 GLOBAL ROUTINE PAS$WRITEV_BOOLEAN (
1         MAX_LENGTH: WORD,                          ! Maximum length of string
1         STRING_LINE: REF VECTOR [, WORD],          ! String to write to
1         BOOLEAN,                                   ! Value to write
1         TOTAL_WIDTH: SIGNED,                       ! Total field width
1         ERROR                                      ! Error unwind address
1     ) : NOVALUE =
1
1 !++
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This procedure writes a BOOLEAN to the specified .:tring.
1 !
1 ! CALLING SEQUENCE:
1 !
1 !       CALL PAS$WRITEV_BOOLEAN (MAX_LENGTH.rw.v, STRING_LINE.wvt.r,
1 !          BOOLEAN.rv.v, TOTAL_WIDTH.rl.v [, ERROR.j.r])
1 !
1 ! FORMAL PARAMETERS:
1 !
1 !       MAX_LENGTH      - The maximum length of STRING_LINE.
1 !
1 !       STRING_LINE     - A varying string to which the output will be appended.
1 !
1 !       BOOLEAN         - The value to write.
1 !
1 !       TOTAL_WIDTH     - The width of the ‘ield to write.
1 !
1 !       ERROR           - Optional.  If specified, the address to unwind to
1 !                         in case of an error.
1 !
1 ! IMPLICIT INPUTS:
1 !
1 !       NONE
1 !
1 ! IMPLICIT OUTPUTS:
1 !
1 !       NONE
1 !
1 ! ROUTINE VALUE:
1 !
1 !       NONE
1 !
1 ! SIDE EFFECTS:
1 !
1 !       NONE
1 !
1 ! SIGNALLED ERRORS:
1 !
1 !       See PAS$WRITE_BOOLEAN
1 !
1 !--
1
2     BEGIN
2
2     LOCAL
```

```
;  229          0289  2         PFV: $PAS$PFV_FILE_VARIABLE,      ! Pascal File Variable
;  230          0290  2         ARG_LIST: VECTOR [4, 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         PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);     ! Enable error handler
;  240          0300  2
;  241          0301  2     !+
;  242          0302  2     ! Get ERROR parameter, if present.
;  243          0303  2     !-
;  244          0304  2
;  245          0305  2     IF ACTUALCOUNT () GEQU 5
;  246          0306  2     THEN
;  247          0307  2         ERROR_ADDR = .ERROR;              ! Set unwind address
;  248          0308  2
;  249          0309  2     PFV_ADDR = PFV [PFV$R_PFV];           ! Set PFV address
;  250          0310  2
;  251          0311  2     !+
;  252          0312  2     ! Set up ARG_LIST.
;  253          0313  2     !-
;  254          0314  2
;  255          0315  2     ARG_LIST [0] = 3;                     ! Three arguments
;  256          0316  2     ARG_LIST [1] = PFV [PFV$R_PFV];       ! PFV address
;  257          0317  2     ARG_LIST [2] = .BOOLEAN;              ! Value to write
;  258          0318  2     ARG_LIST [3] = .TOTAL_WIDTH;          ! Field width
;  259          0319  2
;  260          0320  2     !+
;  261          0321  2     ! Call PAS$$DO_WRITEV to do the work, giving it the address of
;  262          0322  2     ! PAS$WRITE_BOOLEAN to call.
;  263          0323  2     !-
;  264          0324  2
;  265          0325  2     PAS$$DO_WRITEV (PFV [PFV$R_PFV], .MAX_LENGTH, STRING_LINE [0], ARG_LIST,
;  266          0326  2         PAS$WRITE_BOOLEAN);
;  267          0327  2
;  268          0328  2     RETURN;
;  269          0329  2
;  270          0330  1     END;                                          ! End of routine PAS$WRITEV_BOOLEAN


                                                    .EXTRN  PAS$$DO_WRITEV

                            007C 00000              .ENTRY  PAS$WRITEV_BOOLEAN, Save R2,R3,R4,R5,R6     ; 0233
           5E             28  C2 00002              SUBL2   #40, SP                                     ;
                          7E  D4 00005              CLRL    ERROR_ADDR                                  ; 0286
                    04    AE  7C 00007              CLRQ    UNWIND_ACT                                  ;
           6D     0039    CF  DE 0000A              MOVAL   2$, (FP)                                    ;
           05             6C  91 0000F              CMPB    (AP), #5                                    ; 0305
                          04  1F 00012              BLSSU   1$                                          ;
           6E       14    AC  D0 00014              MOVL    ERROR, ERROR_ADDR                           ; 0307
       08  AE       1C    AE  9E 00018 1$:          MOVAB   PFV, PFV_ADDR                               ; 0309
       0C  AE             03  D0 0001D              MOVL    #3, ARG_LIST                                ; 0315
```

```
                              10   AE         1C   AE  9E 00021         MOVAB   PFV, ARG_LIST+4                          ; 0316
                              14   AE         0C   AC  7D 00026         MOVQ    BOOLEAN, ARG_LIST+8                      ; 0317
                                   55       FF77   CF  9E 0002B         MOVAB   PAS$WRITE_BOOLEAN, R5                    ; 0325
                                   54         0C   AE  9E 00030         MOVAB   ARG_LIST, R4                             ;
                                   56         1C   AE  9E 00034         MOVAB   PFV, R6                                  ;
                                   53         08   AC  D0 00038         MOVL    STRING_LINE, R3                          ;
                                   52         04   AC  3C 0003C         MOVZWL  MAX_LENGTH, R2                           ;
                                       00000000G   00  16 00040         JSB     PAS$$DO_WRITEV                           ;
                                                       04 00046         RET                                              ; 0330
                                                     0000 00047 2$:     .WORD   Save nothing                             ; 0286
                                   50         08   AC  D0 00049         MOVL    8(AP), R0                                ;
                                   50         04   A0  D0 0004D         MOVL    4(R0), R0                                ;
                                              D4   A0  9F 00051         PUSHAB  ERROR_ADDR                               ;
                                              D8   A0  9F 00054         PUSHAB  UNWIND_ACT                               ;
                                              DC   A0  9F 00057         PUSHAB  PFV_ADDR                                 ;
                                                   03  DD 0005A         PUSHL   #3                                       ;
                                                   5E  DD 0005C         PUSHL   SP                                       ;
                                   7E         04   AC  7D 0005E         MOVQ    4(AP), -(SP)                             ;
                        00000000G  00              03  FB 00062         CALLS   #3, PAS$$IO_HANDLER                      ;
                                                       04 00069         RET                                              ;

; Routine Size:  106 bytes,    Routine Base:  _PAS$CODE + 005A


;  271          0331  1
;  272          0332  1 !<BLF/PAGE>
;  274          0333  1 END                                                   ! End of module PAS$WRITE_BOOLEAN
;  275          0334  1
;  276          0335  0 ELUDOM



;                                     PSECT SUMMARY

;       Name                     Bytes                        Attributes

;   _PAS$CODE                         196  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)



;                              Library Statistics

;                                                 -------- Symbols --------        Pages        Processing
;       File                                      Total     Loaded   Percent        Mapped       Time

;   _$255$DUA28:[SYSLIB]STARLET.L32;1              9776         0         0          581          00:01.0
;   _$255$DUA28:[PASRTL.OBJ]PASLIB.L32;1            427        26         6           33          00:00.4



;                                     COMMAND QUALIFIERS

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

;  277          0336  0
; Size:         196 code + 0 data bytes
; Run Time:        00:05.5
; Elapsed Time:    00:20.0
; Lines/CPU Min:    3645
; Lexemes/CPU-Min:  9254
; Memory Used:  50 pages
; Compilation Complete
```

0297 AH-BT13A-SE
VAX/VMS V4.0

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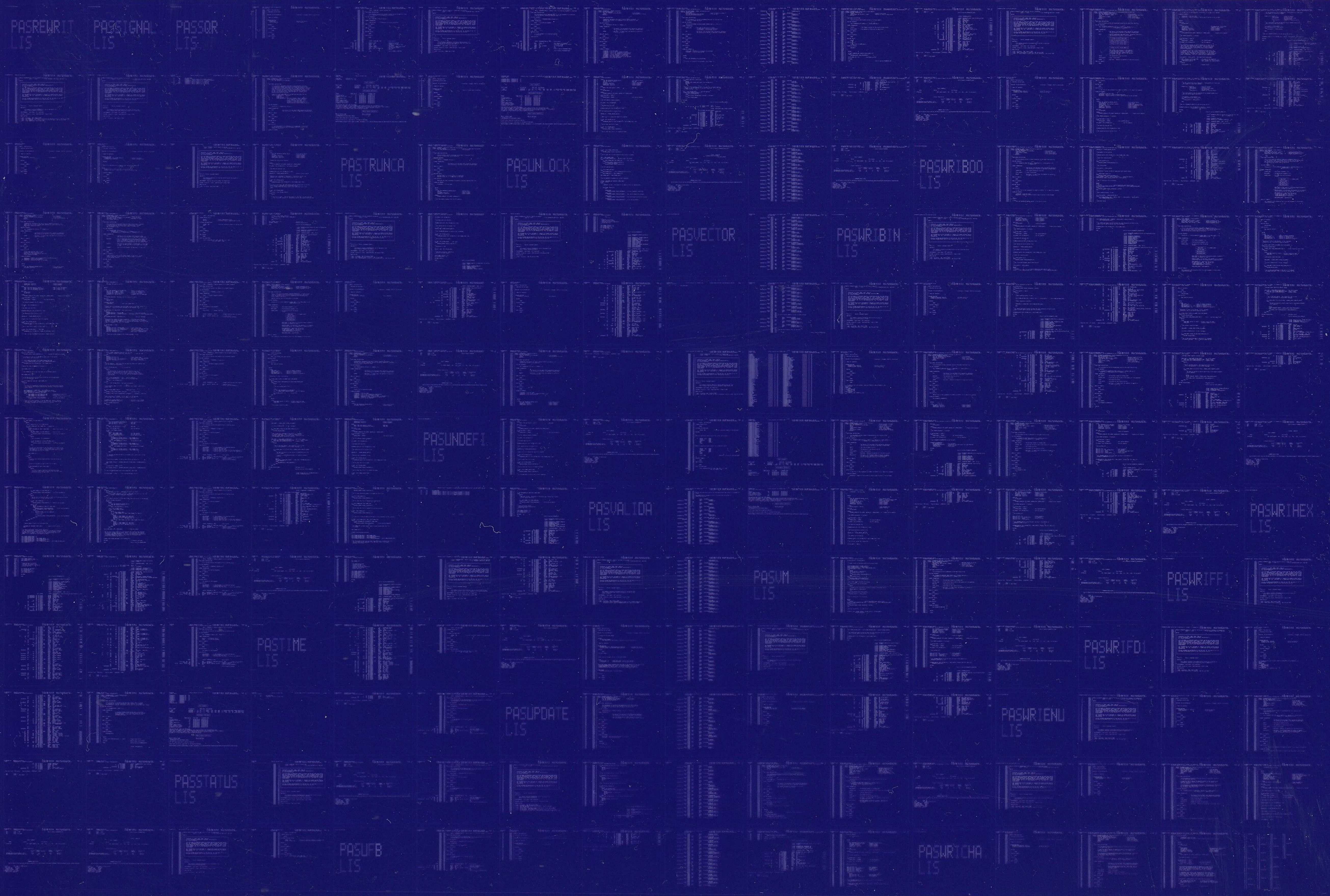

PASREWRIT
LIS

PASSIGNAL
LIS

PASSQR
LIS

PASTRUNCA
LIS

PASUNLOCK
LIS

PASWRIBOO
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PASVECTOR
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PASWRIBIN
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PASUNDEFI
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PASVALIDA
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PASWRIHEX
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PASVM
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PASWRIFF1
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PASTIME
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PASWRIFD1
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PASUPDATE
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PASWRIENU
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PASSTATUS
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PASUFB
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PASWRICHA
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