P855

```
                                IDENT    PERTEC
                        *
                        *
                        *PROGRAM THAT WRITES AND CHECKS
                        * ONE BLOCK OF 1000 WORDS ON THE PERTEC
                        *MAGNETIC TAPE UNIT.
                        *PHYSICAL ADDRESS OF PERTEC = 4
                        *MULTIPLEX CHANNEL = 4
                        *
0000                    BUFFER   RES      2000
                        REWIND   EQU      /24
                        WRITE    EQU      3
                        READ     EQU      2
                        TAPE     EQU      4
                        *
0FA0  20BF                       INH
0FA2  82A0              START    LDKL     A10,/AAAA                FILL WRITE BUFFER
0FA4  AAAA
0FA6  8220                       LDKL     A2,1998
0FA8  07CE
0FAA  82C9              BUFLOD   ST       A10,BUFFER,A2
0FAC  0000  R
0FAE  1A02                       SUK      A2,2
0FB0  5E08                       RB(6)    BUFLOD
0FB2  82A0                       LDKL     A10,BUFFER+1999          ENDING ADDRES WRITE BUFFER
0FB4  07CF  R
0FB6  82C1                       ST       A10,/92                  SECOND MPX WORD
0FB8  0092
0FBA  8120                       LDKL     A1,-2000
0FBC  F830
0FBE  A120                       ANKL     A1,/FFF                  CLEAR BITS 0...3
0FC0  0FFF
0FC2  A920                       ORKL     A1,/8000                 SET BIT 0 FOR CHARACTER EXCHANGE
0FC4  8000
0FC6  8141                       ST       A1,/90                   FIRST MPX WORD
0FC8  0090
                        *
0FCA  0103                       LDK      A1,WRITE
0FCC  41C4                       CIO      A1,1,TAPE                WRITE ONE BLOCK
0FCE  49C4                       SST      A1,TAPE
0FD0  5C04                       RB(4)    *-2
0FD2  0124                       LDK      A1,REWIND                REWIND
0FD4  41C4                       CIO      A1,1,TAPE
0FD6  49C4                       SST      A1,TAPE
0FD8  5C04                       RB(4)    *-2
0FDA  8120  203A                 LDKL     A1,-2000
0FDC  F830
0FDE  A120                       ANKL     A1,/FFF
0FE0  0FFF
0FE2  A920                       ORKL     A1,/C000                 SET BITS 0 AND 1 FOR CHAR.EXCH. AND INF
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```
        0FE4  C000
00039   0FE6  8141                ST      A1,/90                  FIRST MPX WORD
        0FE8  0090
00040   0FEA  82A0                LDKL    A10,BUFFER+3999         ENDING ADDRES READ BUFFER
        0FEC  0F9F  R
00041   0FEE  82C1                ST      A10,/92                 SECOND MPX WORD
        0FF0  0092
00042   0FF2  0102                LDK     A1,READ
00043   0FF4  41C4                CIO     A1,1,TAPE               READ ONE BLOCK
00044   0FF6  49C4                SST     A1,TAPE
00045   0FF8  5C04                RB(4)   *-2
00046   0FFA  0124                LDK     A1,REWIND
00047   0FFC  41C4                CIO     A1,1,TAPE               REWIND
00048   0FFE  49C4                SST     A1,TAPE
00049   1000  5C04                RB(4)   *-2
00050   1002  8120  2062          LDKL    A1,2000          -BL
        1004  07D0
00051   1006  8244        COMP    LD      A2,BUFFER-2,A1          COMPARE WRITE BUFFER
        1008  FFFE  R
00052   100A  9A44                SU      A2,BUFFER+1998,A1       WITH READ BUFFER
        100C  07CE  R
00053   100E  5000  F             RF(0)   OK
00054   1010  207F                HLT
00055   1012  5F72                RB      START
00056   1014  1902        OK      SUK     A1,2
00057   1016  5C12                RB(4)   COMP
00058   1018  1701                ADK     A7,1
00059   101A  5F7A                RB      START
00060                             END     START
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207A

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                SYMBOL TABLE

BUFFER  0000  R   REWIND  0024  A   WRITE   0003  A   READ    0002  A
TAPE    0004  A   START   0FA2  R   BUFLOD  0FAA  R   COMP    1006  R
OK      1014  R

                ASS.ERR.    00000

:EOF
```