```
1000              COPY    START   1000              COPY FILE FROM INPUT TO OUTPUT
1000    141033  FIRST   STL     RETADR            SAVE RETURN ADDRESS
1003    482039  CLOOP   JSUB    RDREC             READ INPUT RECORD
1006    001036          LDA     LENGTH            TEST FOR EOF (LENGTH = 0)
1009    281030          COMP    ZERO
100C    301015          JEQ     ENDFIL            EXIT IF EOF FOUND
100F    482061          JSUB    WRREC             WRITE OUTPUT RECORD
1012    3C1003          J       CLOOP             LOOP
1015    00102A  ENDFIL  LDA     EOF               INSERT END OF FILE MARKER
1018    0C1039          STA     BUFFER
101B    00102D          LDA     THREE             SET LENGTH = 3
101E    0C1036          STA     LENGTH
1021    482061          JSUB    WRREC             WRITE EOF
1024    081033          LDL     RETADR            GET RETURN ADDRESS
1027    4C0000          RSUB                      RETURN TO CALLER
102A    454F46  EOF     BYTE    C'EOF'
102D    000003  THREE   WORD    3
1030    000000  ZERO    WORD    0
1033            RETADR  RESW    1
1036            LENGTH  RESW    1                 LENGTH OF RECORD
1039            BUFFER  RESB    4096              4096-BYTE BUFFER AREA
.
.       SUBROUTINE TO READ RECORD INTO BUFFER
.
2039    041030  RDREC   LDX     ZERO              CLEAR LOOP COUNTER
203C    001030          LDA     ZERO              CLEAR A TO ZERO
203F    E0205D  RLOOP   TD      INPUT             TEST INPUT DEVICE
2042    30203F          JEQ     RLOOP             LOOP UNTIL READY
2045    D8205D          RD      INPUT             READ CHARACTER INTO REGISTAR A
2048    281030          COMP    ZERO              TEST FOR END OF RECORD (X'00')
204B    302057          JEQ     EXIT              EXIT LOOP IF EOF
204E    540000          STCH    BUFFER,X          STORE CHARCTER IN BUFFER
2051    2C205E          TIX     MAXLEN            LOOP UNLESS MAX LENGTH
2054    38203F          JLT     RLOOP              HAS BEEN REACHED
2057    101036  EXIT    STX     LENGTH            SAVE RECORD LENGTH
205A    4C0000          RSUB                      RETURN TO CALLER
205D    F1      INPUT   BYTE    X'F1'             CODE FOR INPUT DEVICE
205E    001000  MAXLEN  WORD    4096
.
.       SUBROUTINE TO WRITE RECORD FROM BUFFER
.
2061    041030  WRREC   LDX     ZERO              CLEAR LOOP COUNTER
2064    E02079  WLOOP   TD      OUTPUT            TEST OUTPUT DEVICE
2067    302064          JEQ     WLOOP             LOOP UNTIL READY
206A    500000          LDCH    BUFFER,X          GET CHARCTER FROM BUFFER
206D    DC2079          WD      OUTPUT            WRITE CHARACTER
2070    2C1036          TIX     LENGTH            LOOP UNTIL ALL CHARACTERS
2073    382064          JLT     WLOOP              HAVE BEEN WRITTEN
2076    4C0000          RSUB                      RETURN TO CALLER
2079    05      OUTPUT  BYTE    X'05'             CODE FOR OUTPUT DEVICE
                END     FIRST
```