BASIC: APPEND fix (1 of 2)

```
Revised:        11/15/84
Security:       Everyone
```

BASIC: APPEND fix (1 of 2)

```
======================================================================
```

Yes! There is an APPEND fix! The following four short test programs
illustrate the problem. The run command and a short explanation precededs
each code.

1. RUN TEST1,D1
This puts a file called 'JUNK' onto the disk in drive 1 with exactly 255
bytes.

```
10 REM  TEST1
20 D$ = CHR$(4)
30 PRINT D$;"OPEN JUNK"
40 PRINT D$;"WRITE JUNK"
50 FOR L = 1 TO 8
60 FOR M = 1 TO 29
70 PRINT "A";
80 NEXT M
90 PRINT "A"
100 NEXT L
110 FOR L = 1 TO 5
120 PRINT "A";
130 NEXT L
140 PRINT "A"
150 PRINT D$;"CLOSE"
160 END
```

2. RUN TEST2
This reads the file 'JUNK' and prints it onto your CRT.

```
10 REM  TEST2
20 D$ = CHR$(4)
30 PRINT D$;"OPEN JUNK"
40 PRINT D$;"READ JUNK"
50 FOR L = 1 TO 9
60 INPUT ST$
70 PRINT ST$
80 NEXT L
```

```
90 PRINT D$;"CLOSE"
100 END


3. RUN TEST3
This attempts to APPEND to the file 'JUNK' the message "THIS IS A TEST".

10 REM  TEST3
20 D$ = CHR$(4)
30 PRINT D$;"APPEND JUNK"
40 PRINT D$;"WRITE JUNK"
50 PRINT "THIS IS A TEST"
60 PRINT D$;"CLOSE"
70 END


4. RUN TEST4
This reads and displays the file 'JUNK' which should now have a last line
reading "THIS IS A TEST".

10 REM TEST4
20 D$ = CHR$(4)
30 PRINT D$;"OPEN JUNK"
40 PRINT D$;"READ JUNK"
50 FOR L = 1 TO 10
60 INPUT ST$
70 PRINT ST$
80 NEXT L
90 PRINT D$;"CLOSE"
100 END
```

If the APPEND does not take, the display reads an END OF DATA.

Apple supplied the following fix answer to software developers in August, and
they have been using it since November, 1983.

```
"early 1983"               after November, 1983
----------------------     ----------------------
B683:4C 84 BA JMP $BA84     B683:4C B3 B6 JMP $B6B3

$B6B3-B6CE:ALL ZEROS        B6B3:AD BD B5 LDA $B5BD
                            B6B6:8D E6 B5 STA $B5E6
                            B6B9:8D EA B5 STA $B5EA
                            B6BC:AD BE B5 LDA $B5BE
                            B6BF:8D E7 B5 STA $B5E7
                            B6C2:8D EB B5 STA $B5EB
                            B6C5:8D E4 B5 STA $B5E4
                            B6C8:BA        TSX
                            B6C9:8E 9B B3 STX $B39B
                            B6CC:4C 7F B3 JMP $B37F


$BA84-BA93:PATCH            BA84-BA93:ALL ZEROS
```

The patch put at $BA84 has been moved down to $B6B3, and four extra lines have
been added to that patch. Initialize a new diskette after making the above

patch and reboot the system. You can then sucessfully run the test programs
above.

Apple Technical Communications

Tech Info Library Article Number:330