



# Tech Info Library

## **FORTTRAN: Using FORTTRAN 1.0 with Pascal 1.2**

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Security: Everyone

FORTTRAN: Using FORTTRAN 1.0 with Pascal 1.2

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Many Apple II FORTTRAN programmers have purchased or upgraded their operating system. They have discovered that the new system, the current version of Pascal 1.2, rejects the FORTTRAN compiler because it has the wrong version number.

Change the version ID in the FORTTRAN Compiler the easy way. Use this program, FORTTRANFIX, to modify an Apple II FORTTRAN Compiler so that it can be run under Apple II Pascal 1.2 without getting a version error.

Load this entire file into the Pascal Editor. These paragraphs will substitute for the 1K header the editor expects to see at the beginning of a text file. Make NO changes. Quit the editor by choosing "U(pdate the work file and leave". Select "R(un" from the main command line. FORTTRAN users, be sure to do this using your Pascal system and not your FORTTRAN system.

When the program prompts you, place your FORT2: diskette in drive 1. Upon completion, the FORTTRAN compiler will be accepted by the Pascal 1.2 system.

```
program FORTTRAN_FIX;
  type Byte      = 0..255;
      Seg_Info = packed record
          Mach_Type: 0..9;
          Filler: 0..1;
          Major_Revision: 0..7;
      end;

  var  Num      : integer;
      ch       : char;
      Buffer: packed array [0..511] of byte;
      F        : file;
      Trix     : record case boolean of
          true : (Temp: packed array [0..0] of Byte);
          false: (SI  : Seg_Info);
      end;

  procedure RESET_FILE (File_Name: string);
```

```

begin
  {$I-}
  reset (F, File_Name);
  {$I+}
  if (IORESULT <> 0) then begin
    Num:= IORESULT;
    writeln (chr (7));
    writeln ('I/O ERROR #', Num, ' in opening ', File_Name);
    exit (program)
  end
end; {Reset_File}

procedure READ_BLOCK (Block_Num: integer);
var Block_Xfer: integer;
begin
  {$I-}
  Block_Xfer:= BLOCKREAD (F, Buffer, 1, Block_Num);
  {$I+}
  if (IORESULT <> 0) then begin
    Num:= IORESULT;
    writeln (chr (7));
    writeln ('I/O ERROR #', Num, ' in reading from file.');
```

exit (program)

```

  end
end; {Read_Block}

procedure WRITE_BLOCK (Block_Num: integer);
var Block_Xfer: integer;
begin
  {$I-}
  Block_Xfer:= BLOCKWRITE (F, Buffer, 1, Block_Num);
  {$I+}
  if (IORESULT <> 0) then begin
    Num:= IORESULT;
    writeln (chr (7));
    writeln ('I/O ERROR #', Num, ' in writing to file.');
```

exit (program)

```

  end
end; {Write_Block}

begin {Main Program}
  writeln (chr(12)); {Erase screen}
  writeln ('FORTRANFIX');
  writeln;
  writeln ('Copyright 1984 Apple Computer, Inc.');
```

writeln;

```

  writeln;
  write ('This program will modify an Apple II');
```

writeln (' FORTRAN compiler so that it can');

```

  write ('be run under Apple II Pascal 1.2');
```

writeln (' without getting a version error.');

```

  write ('This program expects the FORTRAN compiler');
```

writeln (' to be named SYSTEM.COMPILER.');

```

repeat
  gotoxy (0,10);
  write (chr(11)); {Erase to end of screen}
  writeln ('Put the disk with SYSTEM.COMPILER in drive 1. ');
  write ('Press RETURN when ready, ESC to exit program. ');
  read (ch);
  if (ch = chr(27)) then begin
    write (chr(12)); {Erase screen}
    exit (program)
  end;
  readln;
  RESET_FILE ('#4:SYSTEM.COMPILER');
  READ_BLOCK (0);

  Trix.Temp [0]:= Buffer [259];
  Trix.SI.Major_Revision:= 5;
  Buffer [259]:= Trix.Temp [0];

  WRITE_BLOCK (0);
  close (F, lock);
  writeln;
  writeln;
  writeln;
  write ('MODIFICATION COMPLETE - Press RETURN to continue. ');
  readln
until false
end. {FORTRAN_Fix}

```

Apple Technical Communications

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