

Chapter II: VERSION DIFFERENCES

The XYBASIC interpreter is available in a number of different versions, depending on the user's computer and operating system. This chapter outlines specific differences between versions. It also describes two related programs, the XYBASIC Compiler and XYBASIC Runtime Module, which allow debugged programs to be executed with less overhead than under the interpreter.

Section 1: CP/M Version

The CP/M version of XYBASIC is supplied as a COM file XYBASIC.COM residing in RAM starting at 100H, so to load XYBASIC under CP/M you just type XYBASIC. CP/M copies of XYBASIC are normally delivered on a single density eight inch floppy disk, but are also available on a single density five inch floppy disk (e.g. for NorthStar).

In CP/M versions the IOBYTE resides at location 3, and the default value for the top of available RAM is determined from locations 6 and 7. Location 103H contains JMP GTPAR, and after initialization the JMP instruction at location 100H may be used to return to direct mode from user routines (e.g. after an error condition in an assembly language routine). The ROMSquared default value bytes are at locations 106H to 10AH.

By including a filename on the CP/M command line, you can load XYBASIC together with a XYBASIC program and execute the program immediately. For example,

```
XYBASIC B:EXAMPLE
```

first loads XYBASIC. Then the WIDTH is defaulted to 80 and the END OF MEMORY is defaulted to the maximum value allowed under your CP/M system, exactly as if you typed <carriage return> in response to the initialization prompts. Finally the specified XYBASIC program (in this case B:EXAMPLE.XYB) is LOADED and RUN. An FN (File Not found) error will occur if no .XYB file with the given filename is found.

The load and go option can be especially useful within SUBMIT files, where any number of programs can be executed (with non-XYBASIC programs interspersed) in sequence. You can use the command

```
CALL 0
```

within XYBASIC programs to exit from the program and return to CP/M automatically, without typing <control-B>.

Section 2: ISIS-II Version

The ISIS-II version of XYBASIC is supplied as an absolute file XYBAS starting in RAM at 3280H, so to load XYBASIC under ISIS-II you just type XYBAS. ISIS-II copies of XYBASIC are normally delivered on either a single density or double density eight inch floppy disk.