

Chapter I: XYBASIC TUTORIAL

This tutorial chapter will teach you to use XYBASIC. You will learn a great deal by actually running the sample programs on your computer. Then you should try writing similar programs! By interacting with XYBASIC you will quickly learn how XYBASIC works and how to write your own programs.

The sample programs appear in their entirety, just as you will see them on your console. To make them stand out from the manual text, they appear in a different typeface. Both what you type and what XYBASIC types is given; of course you should not type in the lines typed by XYBASIC.

Section 1: A Quick Introduction to XYBASIC

XYBASIC is a versatile and powerful computer language which lets you perform complex calculations and solve difficult realtime control problems in either of two modes.

PROGRAM MODE:

In program mode you can prepare a complex series of numbered commands, called a program, and then execute it. XYBASIC's powerful debugging features make it easy for you to find mistakes and correct your program quickly.

DIRECT MODE:

In direct mode you just type a command and XYBASIC executes it immediately. The dozens of available commands let you do input and output, examine the contents of memory, list programs, and perform countless other tasks.

It's that simple! Using XYBASIC requires no prior computer experience or special mathematical knowledge. To see just how easy XYBASIC is to use, type the following lines (each followed by <carriage return>) after loading XYBASIC.

You type:

PRINT 5 + 4

LET X = 10

LET Y = 20

PRINT X + Y

XYBASIC responds:

9

OK

OK

OK

30

OK

The OK typed by XYBASIC is a prompt, its way of telling you it is ready for another command. When used like this, XYBASIC acts just like a pocket calculator, but it has much more power. You can use XYBASIC to monitor and control anything from machine tools to chemical experiments to oil pipelines. And XYBASIC's powerful features let you write programs faster and get them running correctly in less time, so XYBASIC can increase your productivity.