

```
PRINT RSHIFT (IOBYTE, 4) AND &11
```

```
0
```

```
OK
```

The CP/M and ISIS-II versions of XYBASIC store the current value of IOBYTE in the system I/O byte at location 3. Custom I/O versions store the IOBYTE value in the first RAM location (normally 4000H for Extended XYBASIC and 2000H for Integer XYBASIC), and set its value to 0 during initialization.

SAVE and LOAD

SAVE lets you to preserve a program for later use, and LOAD allows you to recall a SAVED program. In the CP/M and ISIS-II versions of XYBASIC programs are SAVED to and LOADED from disks. In the Custom I/O version of XYBASIC, SAVE uses the logical PUNCh device and LOAD uses the logical ReaDeR device (which may e.g. be audio cassette or paper tape -- don't forget to turn on whatever device you are using!). If you type

```
SAVE "EXAMPL"
```

then a file called EXAMPL.XYB containing the current program will be SAVED in XYBASIC's internal representation on the currently logged disk under CP/M, on :F0: under ISIS-II, or through the PUNCh device in Custom I/O versions.

To load a SAVED program you just type

```
LOAD "EXAMPL"
```

LOAD also can be used within programs. The current program is deleted when another is LOADED, but you can use LOAD to execute several programs in succession. An RO (ROmsq feature) error will occur if you try to LOAD a program while XYBASIC is addressing a program outside its working space.

In Custom I/O versions, the specified filename may consist only of one to eight upper case letters or digits. You can also type LOAD without a filename to LOAD a program. If a filename is specified, XYBASIC reads from the ReaDeR until it finds the SAVED program with the given filename; if not, it LOADs the first program it finds.

Because programs are SAVED or LOADED in XYBASIC's internal representation, SAVE and LOAD will work correctly in Custom I/O versions only if your RDR and PUN routines pass eight bit bytes -- routines which change the parity bit will NOT work! The format of SAVED programs is described in the Custom I/O version section of Chapter II. In Custom I/O versions, a CS (CheckSum) error occurs if part of a program LOADs incorrectly.

If you have a teletype with a paper tape reader and punch, you can save programs in ASCII by turning on the punch and using the LIST command. Typing NEW and reading the resulting paper tape then loads your program.

In ISIS-II versions, the filename may consist of one to six letters or digits, and may be preceded by an optional device name; for example,

```
SAVE :F1:"EXAMPL"
```

```
'SAVE AS :F1:EXAMPL.XYB UNDER ISIS-II
```