

Mostek AID-80F and SYS-80T Emulator (Version 1.1)

The Mostek emulator runs in a Unix environment. It can also run under Windows using Cygwin. The executable (sim32.exe or sim64.exe) in the download file is compiled for Windows with Cygwin. To run under Linux or other Unix O/S, the executable must be rebuilt from the sources.

To run the emulator under Windows, the default Cygwin installation is sufficient. To rebuild from source under Cygwin, the gcc compiler and make must be installed using the Cygwin installer. Cygwin can be found here: <https://cygwin.com/install.html>.

Unzip the download file into the desired destination folder. Windows users should extract to a folder within the Cygwin file tree and run the emulator inside a Cygwin console window. To run the emulator, type ./sim32 or ./sim64 from within its own folder (choose based on whether you installed the 32 bit or 64 bit version of Cygwin).

Disk images are provided in the "disks" folder. A full backup copy of all disk images is in the "disks/backup" folder.

Different disks are loaded into the machine by editing the config.txt file in the "conf" folder. For convenience, the names of all disk images are in the config.txt file so you can easily cut and paste disk names into the drives. The new disks are active in the machine as soon as you save changes in the config.txt file. You do not have to restart the emulator.

Under CP/M, the programs R.COM and W.COM can be used to read a file from the host PC into CP/M and to write a file from CP/M to the host PC. Under FLP-80DOS, the program XCPM can be used to move a file from CP/M to the FLP-80DOS disk. Finally, under CP/M, the program XFLP can be used to move a file from FLP-80DOS to the CP/M disk. These programs also work the same under M/OS-80 as they do in CP/M. With these utilities, files can be moved between the host PC, CP/M, M/OS-80, and FLP080DOS as needed.

The emulation includes the 4K monitor and disk driver PROM set used in the AID-80F and SYS-80T computers. These PROMs are automatically loaded and executed when the emulator is started. The computer can be rebooted by jumping to the PROM at 0xe000 using the "go" command.

The emulation can be halted and control returned to the emulator command prompt by typing ctrl-\. The emulator has numerous useful commands including breakpoints, modifying memory, single stepping, etc. Type ? at the command prompt for a list of commands.

The Mostek emulator is built on z80pack by Udo Monk. See <https://www.autometer.de/unix4fun/z80pack/> to learn more.