

About the LAB

To start:

1. Boot into Windows 2000
2. Click on the 68000 icon
3. Insert your floppy disk (it's easiest if your files are in a:\ (no subdirectory))
4. To edit your source file (e.g. a:\myfile.asm) type `"1 myfile"` (when done, exit Notepad)
5. To assemble your source file, type `"2 myfile"`
6. To view the list file for error messages, type `"3 myfile"`
7. To start the 68000 connection, type `"4"`
 - a) Switch the 68000 board on
 - b) If the 68000 board is on, press the red reset button
8. To upload your hex file, type `"LO1 <cr>"`, then select Send Text File, and then navigate to your .hex file.
9. Set the PC to the start of your program (`".PC 8000"`)
10. Single step through your program (`"T", "T", "T", ...`). (Run to breakpoint is `"GO"`)

Added Notes:

- The monitor program is case sensitive and expects CAPS
- Viewing the help file is HE
- You can restart the 68000 monitor program at any time by pressing the red button
- TRAP #3 causes an error on the Tutor board (does not print as in the emulator).
- Return to command monitor on the board is TRAP #14, not TRAP #9 as in the emulator. Change your code from what you ran on the emulator!
- To view your code disassembled, use `"MD <address> <lines>;DI"`, as in:
`"MD 8000 20;DI"` or follow the lab manual advice and hit enter after the first line appears.
- If you keep getting exceptions, compare the displayed result after LO1 with your hex file. A poor serial connection may occasionally drop bytes in transfer. If the received hex is missing random characters, check the cable or use another machine.