BYOD: Bring Your Own Device

Developing C on Your Own Machine Computer Science I

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Introduction

Using the lab computers will always be an option. However, you may want to untether yourself from the lab and develop on your own machine, either desktop or laptop. There are many options for doing this, the following are only a few suggestions.

Both of these suggestions have you make a connection to your "Z-drive" on the CSE server. This is a remote file system where you can store all of your files, but interact with them as if they were on your computer. It is similar to plugging in a memory stick: it will appear as yet another drive on your computer that you can drag-drop files from/to and open/save files on.

These suggestions still have you compiling and running on the CSE server from the command line. This saves you from having to install your own C compiler/development software. Also, there are many libraries that your labs and exercises may require. All of these have been installed for you already on the CSE server. If you choose to go your own way and install alternative software, you may have difficulty installing libraries if you don't know what you're doing.

Windows

- Connect to your Z: drive using the following FAQ: https://cse.unl.edu/faq-section/windows#node-290
 This only works on campus; off campus you'd need to setup a VPN.
- 2. Install Atom IO https://atom.io/, a free code/text editor. Use this editor to edit files on your Z drive once connected.

3. Download and install Putty, a "Secure Shell Client": http://www.putty.org/
Once you've written your program(s), login to the CSE server using Putty and

Mac

1. Connect to your Z: drive using the following FAQ: https://cse.unl.edu/faq-section/macintosh#node-295
This only works on campus; off campus you'd need to setup a VPN.

compile and run your programs on the CSE server.

- 2. Install Atom IO https://atom.io/, a free code/text editor. Use this editor to edit files on your Z drive once connected.
- 3. Use Terminal (Apps → Utilities → Terminal) to login to the CSE server and compile and run on the CSE server. To login, type ssh login@cse.unl.edu where login is replaced with your CSE login.

Alternatives

The following are some alternatives if you want to explore further. All of them are cross-platform solutions. Keep in mind that you will need to install and troubleshoot various required libraries yourself if you choose these.

- Eclipse for C/C++ is a full Integrated Development Environment (IDE): https://www.eclipse.org/downloads/eclipse-packages/
- Code::Blocks is another IDE for for C/C++: http://www.codeblocks.org/
- Sublime Text is an excellent code editor but is commercial: https://www.sublimetext.com/
- If you are off campus and need to transfer files between your own machine and the CSE server, you can use an SFTP (Secure File Transfer Protocol) client. We recommend FileZilla: https://filezilla-project.org/ (download the *client*, not the server). For the host, use sftp://cse.unl.edu and use your cse login and password.