

Using Eclipse CDT for C/C++ Development

- ▶ Make sure you have the CDT plugin installed. You can check it by going to the [Help](#) → [Software Updates](#) → [Manage Configuration](#).
- ▶ If you do not have it, then you can use [Help](#) → [Software Updates](#) → [Find and Install](#) to find and install the CDT plugin.

Creating a new C Project

- ▶ Click on **File** → **New** → **Managed Make C Project**. With this option, Eclipse creates and manages the Makefile for you!
- ▶ Choose the name of the project. The project contents can be left as default. In that case, Eclipse creates a folder under your default workspace folder with the same name as the project. Select **Finish** to finish creating a project.
- ▶ To create a new header or source file, right click on the project pane (on the left) and choose the appropriate option.
- ▶ **Handy Tips**
 - ▶ *Content Assist*. Use the keys Ctrl-Space to ask for help with function names, arguments and other topical content assistance.
 - ▶ *Word Completion*. Use the keys Alt-/ to complete words after you type in the first few characters. Very useful to avoid having to type long variable or function names.

Building, Running and Debugging a New Project

- ▶ Recommend turn off **Project** → **Build Automatically** option.
- ▶ Click on **Run** → **Debug...** Then a new window pops up that allows you create and manage run/debug configurations. Click on **C/C++ Local Application** and then click on **New**. Then select the executable to run from the project. You can choose the **Search Project...** option to see a list of executables to choose from.
- ▶ Then set command line arguments in the **Arguments** tab, set the **Debugger** to be the **GDB Debugger**. Then click on **Apply**. Now you are ready to run or debug the code. Select **Debug** to next start up the debugger.
- ▶ To run without a debugger, click on **Run** → **Run...** and then choose the run/debug configuration that you created previously.

Importing an Existing Project into Eclipse

Suppose we have an existing project that has a proper Makefile (one that has an all rule that builds the whole project and a clean rule that removes all object files and executables) in a folder somewhere. Then you can import this into Eclipse as follows.

- ▶ Click on **File** → **New** → **Standard Make C Project**.
- ▶ Choose the name of the project. Uncheck the box labeled **Use default** under **Project Contents** tab and then specify the folder where the project is contained. Select **Finish** to finish creating a project. Viola! all the files from that project are now in Eclipse.
- ▶ To run/debug, you need to create configurations as discussed on the previous slide.