

ElectricAccelerator plugin for Eclipse – Documentation

Summary

The ElectricAccelerator plugin for Eclipse allows Eclipse developers to launch C/C++ builds using an ElectricAccelerator installation directly from the Eclipse IDE via the CDT framework.

Supported Versions

ElectricAccelerator

The current version of this plugin (1.0.3) has been tested with **Accelerator 6.2.2 and with 7.0**. In addition, the plugin should be able to work with all non-EOL'd versions of Accelerator.

Eclipse

The plugin was built and has been tested with **Eclipse 3.7.2 (Indigo)**. It makes specific use of certain internal Eclipse libraries, so expect functionality to be version-specific in many cases.

Operating Systems

The plugin has been tested on Redhat EL 6 the GNU toolchain. Limited testing has been done on Windows 7 with Cygwin.

The plugin has been written to be OS agnostic; however, in practice, environment agnosticism will be a stretch goal.

Installation

Plugin is released via an archive site installer. All dependent packages are expected to install automatically as a part of the installer process.

1. In the Windows menu, choose Windows->Install New Software.
2. Add <http://e-p-i-c.sf.net/updates> as a source.
3. Add the EPIC feature, install, and restart Eclipse.
4. In the Windows menu, choose Windows->Install New Software.
5. Click the “Add” button in the upper right corner of the resulting dialog.
6. Next, click the “Archive” button and point to the site installer.
7. **If “Group items by category” is checked, uncheck it.**
8. Click “Next” and run through the remaining install screens.

Configuration

Preferences Menu

The preferences menu is accessible via Windows->Preferences->ElectricAccelerator. The items in the preferences menus are directly translatable to standard emake command line options. For information about the options, see the Emake Users Guide.

CDT integration

After creating your C/C++ projects, do the following with each:

1. Right click on the project in the project explorer window.
2. Expand "C/C++ Build" and click on "Tool chain editor".
3. For the field labeled "Current builder", click on it and choose "Emake builder".
4. Click on "C/C++ Build" itself and modify the build command as needed
 - a. Leave the default value of "emake" if the appropriate version of emake is already in your PATH.
 - b. As an alternative, modify the value of the field so that it contains the correct path to emake including any command line arguments that would normally be passed to your native build (i.e., "-f makefile").

Usage

Before using this plugin's functionality, verify that an accelerated emake build can be run from your standard shell (i.e., bash, Cygwin, etc). Also verify that your Eclipse C/C++ project build properly with a non-Emake builder and toolchain.

After this has been done, to go the "Project" menu in eclipse and choose "Build all" or "Build project" to run the build. "Clean" can be used to run a clean locally (it will not perform the clean operation using ElectricAccelerator agents).