Module 2: Installation

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Objective

To learn how to install Eclipse and PTP

+ Contents

- System Prerequisites
- Eclipse Download and Installation
- PTP Installation from an Update Site
- Installation Confirmation

About the Tutorial Installation

- The PTP Tutorial will assume you already have Eclipse installed on your laptop. Please use these slides to install Eclipse and PTP on your laptop before attending.
- Note: up-to-date info on installing PTP and its pre-reqs is available from the release notes:
 - + http://wiki.eclipse.org/PTP/release_notes/5.0
 - This information may supersede these slides
- Questions? Please ask on the ptp-users mailing list: http://dev.eclipse.org/mhonarc/lists/ptp-user/

System Prerequisites

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Local system (running Eclipse)

- Linux (just about any version)
- MacOSX (10.5 Leopard or 10.6 Snow Leopard)
- Windows (XP on)
- ✦ Java: Eclipse requires Sun or IBM Java
 - Only need Java runtime environment (JRE)
 - + Java 1.5 or higher
 - +Java 1.5 is the same as JRE 5.0
 - Note: The GNU Java Compiler (GCJ), which comes standard on Linux, will not work!
 - Note 2: OpenJDK, distributed with some linux distributions, has not been tested with Eclipse.
 - See http://wiki.eclipse.org/PTP/installjava

Eclipse Packages

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Eclipse is available in a number of different packages for different kinds of development
http://eclipse.org/downloads
This is Eclipse 3.7, also known as "Indigo"
With Indigo, there is a new package directly relevant for HPC:
Eclipse IDE for Parallel Application Developers
Base Eclipse distribution plus
C/C++ Dev Tools (CDT)
Parallel Tools Platform (PTP)
Fortran Dev Tools (Photran)
Linux Tools
T

 Can also augment existing Eclipse (eg, Eclipse CDT) with relevant Parallel Tools components **Eclipse Installation**

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Download the appropriate package

 If your machine is Linux or Mac OS X, untar the file

On Mac OS X you can just double-click in the Finder

- If your machine is Windows, unzip the file
- This creates an eclipse folder containing the executable as well as other support files and folders

Starting Eclipse

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+ Linux

From a terminal window, enter "<eclipse_installation_path>/eclipse/eclipse &"

Mac OS X

- + From finder, open the eclipse folder where you installed
- Double-click on the Eclipse application
- Or from a terminal window

Windows

- + Open the eclipse folder
- Double-click on the eclipse executable

Specifying A Workspace

- Eclipse prompts for a workspace location at startup time
- The workspace contains all user-defined data
 Projects and resources such as folders and files

	Workspace Launcher
	Select a workspace
The prompt can be	Eclipse Platform stores your projects in a folder called a workspace.
turned off	Workspace: //home/beth/workspace
	Use this as the default and do not ask again OK Cancel

Eclipse Welcome Page

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Displayed when Eclipse is run for the first time Select "Go to the workbench"



Module 2

Confirm PTP Installation

- If you pre-installed Eclipse for Parallel Application Developers
 This will check that it is installed correctly
 - Skip to "Check Installation Details", slide 2-14
- If you have pre-installed Eclipse but not PTP
 - Continue following these slides

PTP Installation

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New functionality is added to Eclipse using *features*

Features are obtained and installed from

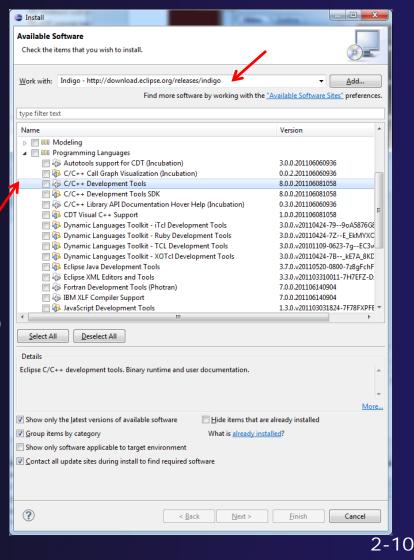
- An update site on a web server, or
- ✦ A local archive
- Eclipse 3.7 comes preconfigured with a link to the Indigo Update Site
 - This is a remote site that contains a large number of official features

Indigo projects are guaranteed to work with Eclipse 3.7



Indigo Update Site

- From the Help menu, choose
 Install New Software...
- The Indigo site comes already configured with Eclipse
- We are going to install:
 - C/C++ Development Tools (CDT)*/
 - Parallel Tools Platform (PTP) End-User Runtime
 - PTP Remote Development Tools (RDT)
 - *If you installed the C/C++ IDE, you already have CDT in your Eclipse installation and you can omit this.



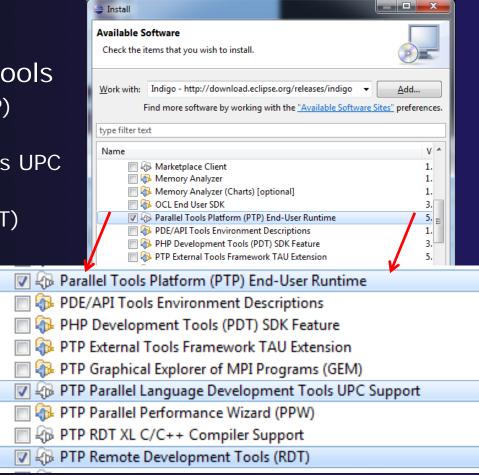


Install PTP Features

Under General Purpose Tools

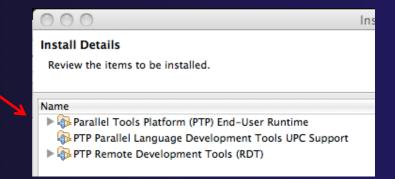
- Parallel Tools Platform (PTP) End-User Runtime
- PTP Parallel Lang Dev. Tools UPC Support*
- PTP Remote Dev Tools (RDT)

Check these and click 'Next'



Finishing Installation

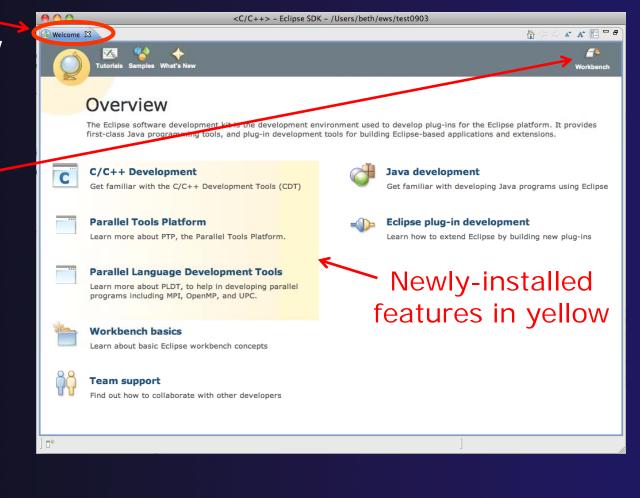
- Review the items to be installed
- + Finish installing:
 - + Choose Next>
 - Accept license terms
 - Choose Finish

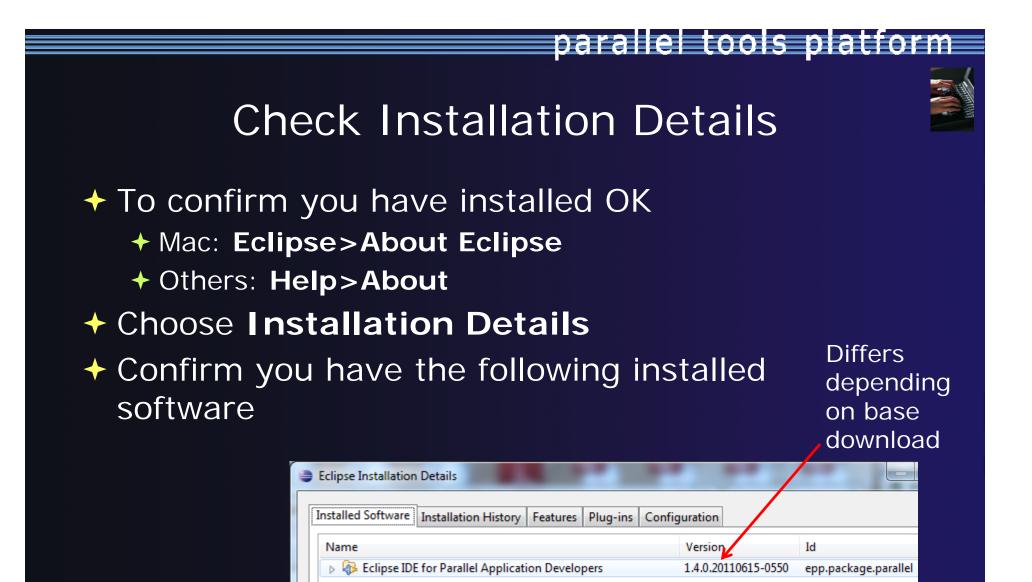


- Features are downloaded and installed
- + Any pre-requisites are also installed if available
- Restart Eclipse when prompted

Restart after Install

- Welcome page informs you of new features installed
- Click to learn more, or...
- Select workbench icon to go to workbench





Checking for PTP Updates

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From time-to-time there may be newer PTP releases than the Indigo release

Indigo updates are released only in Sept and February

PTP maintains its own update site with the most recent release

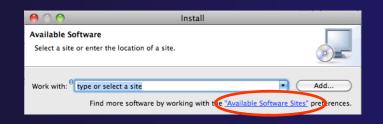
Bug fix releases can be more frequent than Indigo'

You must enable the PTP-specific update site before the updates will be found

Updating PTP

Enable PTP-specific update site

- Help>Install new software
- Click Available Software
 Sites link



- Enable/Check the PTP site: http://download.eclipse.org/tools/ptp/updates/indigo
 - (should be enabled by default)
- Choose OK
- Choose Cancel (to return to Eclipse workbench)
- Now select Help>Check for updates
 - Follow prompts like a normal installation

