

Ant and Eclipse



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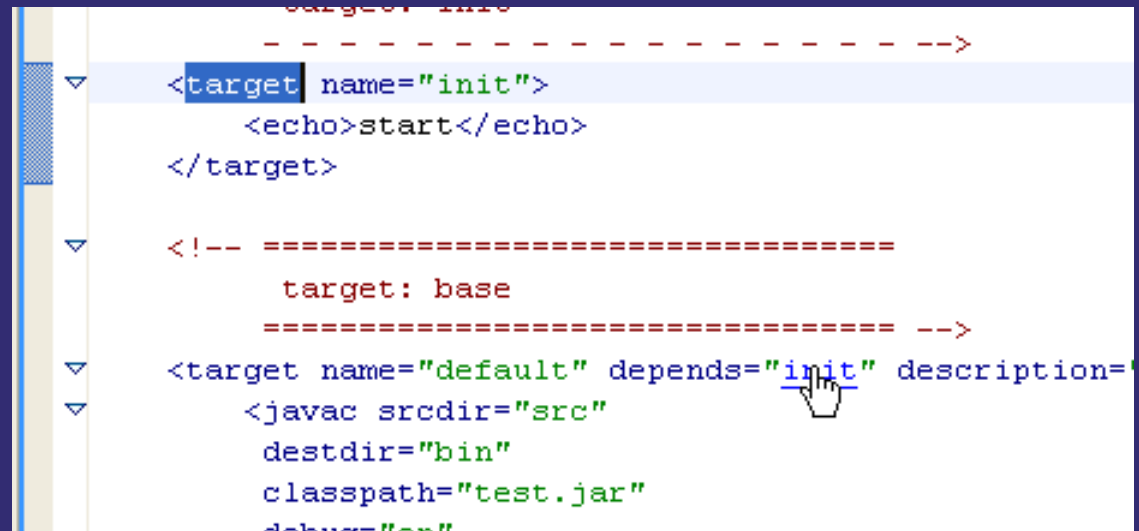
Why Ant and Eclipse?

- Two powerful, extendable tools integrated to help developers solve problems



Writing Ant Buildfiles: Ant Editor

- Content assist
- Text hovering
- Problem annotations
- Navigation
- Synchronized outline
- Formatting
- Open external documentation



The screenshot shows the Eclipse Ant Editor interface. On the left, a tree view displays the buildfile structure with expandable sections. The main editor area shows the following Ant buildfile content:

```
target: init
----->
<target name="init">
  <echo>start</echo>
</target>

<!-- =====
      target: base
      ===== -->
<target name="default" depends="init" description="
<javac srcdir="src"
      destdir="bin"
      classpath="test.jar"
      debug="on"
```

Content assist is visible as the word "init" is underlined in the `depends="init"` attribute. A mouse cursor is hovering over the underlined "init", which triggers a tooltip (not fully visible) to provide additional information about the target.

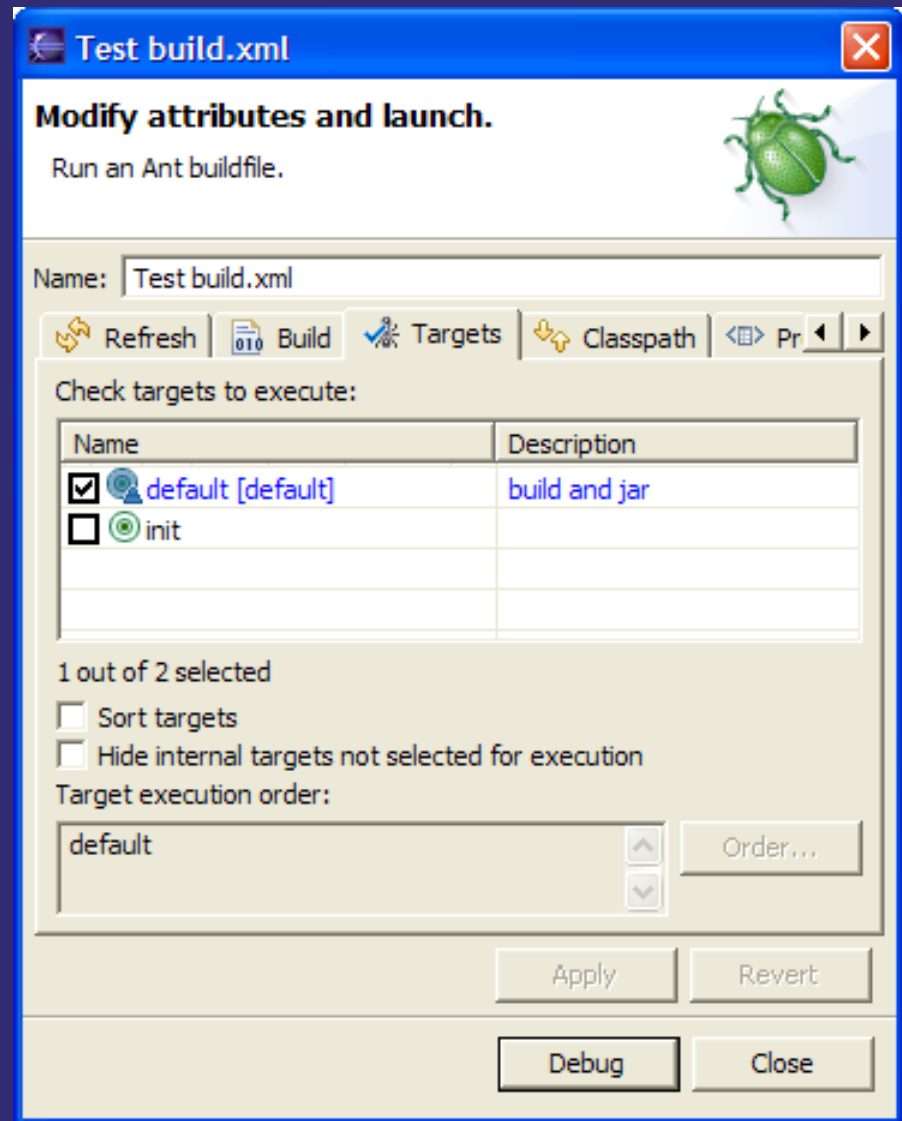
Writing Ant Buildfiles: Ant Preferences

- Editor Preferences
 - Error annotations
- Runtime Preferences
 - Tasks, Type and Properties
 - Limit buildfile portability
 - Runtime classpath

Ant builds in Eclipse: Launch configurations

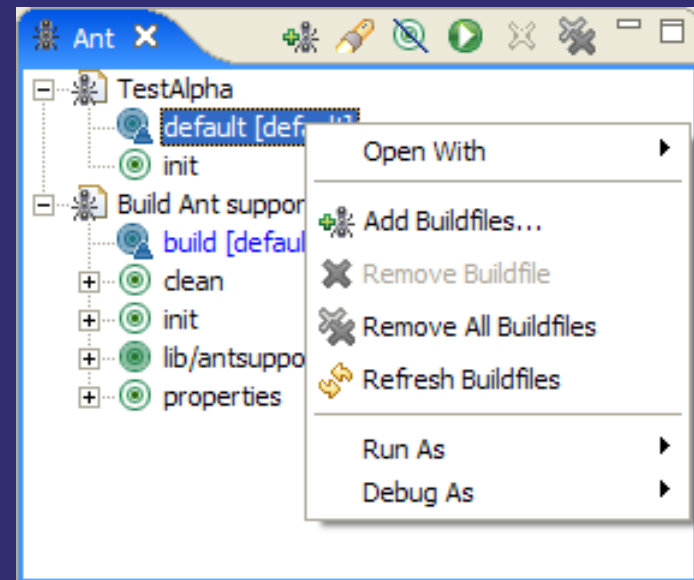
Ant launch configurations

- Mechanism for configuration of a specific Ant build



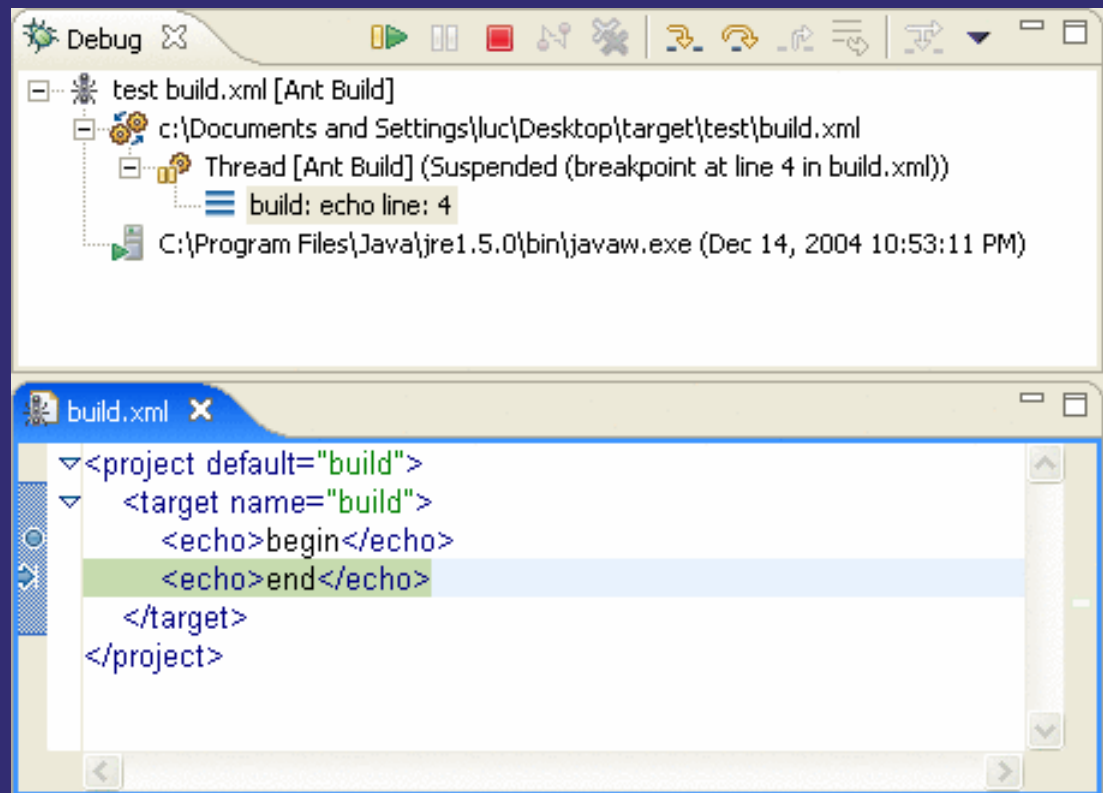
Running Ant Builds in Eclipse: Ant View

- Consolidates buildfiles in one location
- Simplifies running a single Ant target



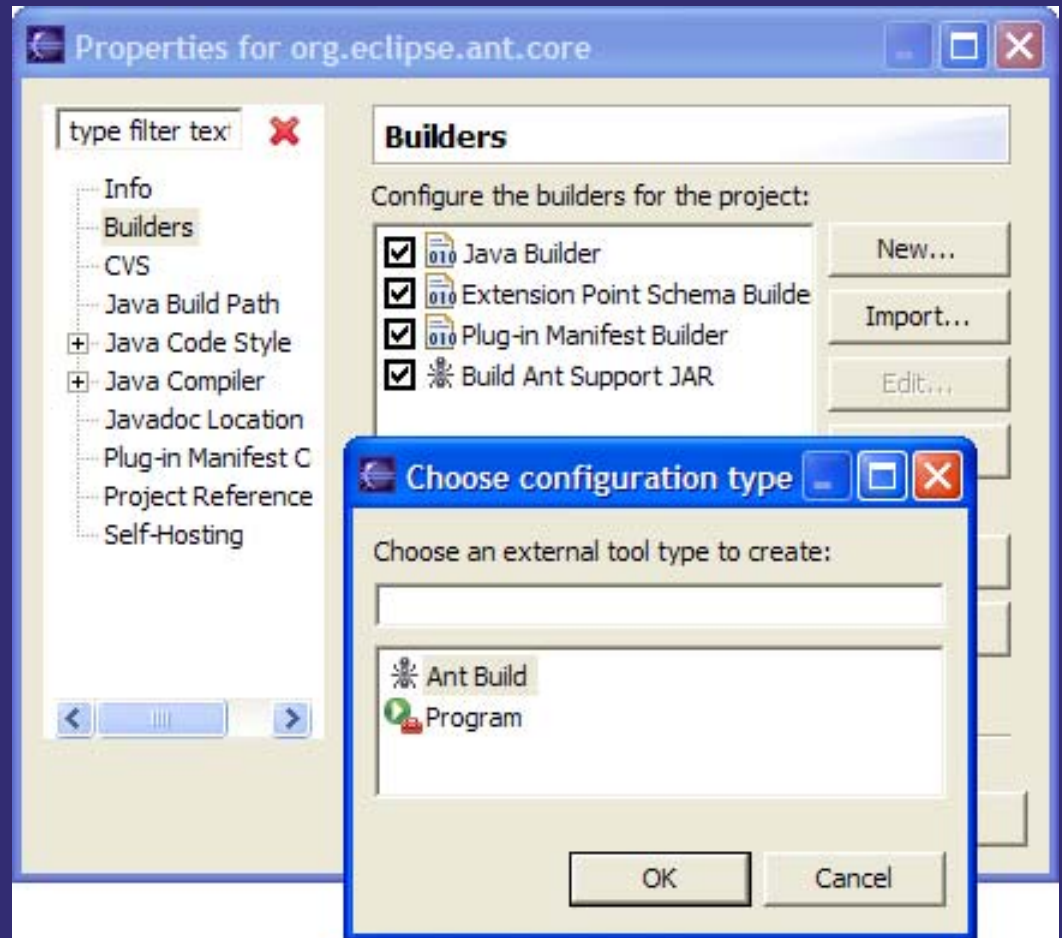
Debugging Ant Builds

- Controlled execution of an Ant build
 - Breakpoints
 - Stepping
 - Termination
- Properties shown in the Variables View
 - System, User and Runtime
- Run to line



Running Ant Builds in Eclipse: Builders

- Shareable
- Configurable
 - Refresh
 - Triggers



Customize Eclipse: Ant Integration Extension Points

- Tasks, types, properties and extra classpath entries
 - Plugin customization of Ant runtime
- All provided by the Ant Core plugin

```
<extension
  point="org.eclipse.ant.core.extraClasspathEntries">
  <extraClasspathEntry
    library="lib/antsupportlib.jar">
  </extraClasspathEntry>
</extension>
```

Questions?

Contact with the Eclipse Ant Component

- Log bugs against the Platform Ant component for both features requests and problems (patches welcome ☺)
- [eclipse.platform](https://news.eclipse.org/platform) newsgroup on news.eclipse.org
- Darin_Swanson@us.ibm.com

