

# Pluto RemoteDebuggingWithPluto

## Remote debugging Pluto's binary distribution or portlets deployed in Pluto

*The Tomcat Development FAQ is the definitive authority on remote debugging in Tomcat, which is the basis for Pluto's current bundled binary distribution (see <http://tomcat.apache.org/faq/development.html>). I am adding a few more explicit details here.*

### Setup Tomcat/Pluto for Remote Debugging

1. Add these statements to the top of catalina.bat in the bin directory

```
set JPDA_TRANSPORT=dt_socket
```

```
set JPDA_ADDRESS=8000
```

2. Start the binary distribution with the command line:

```
<TOMCAT_HOME>/catalina.bat jpda start
```

### Remote Debugging in Eclipse

1. Select the portlet (or portal component) you want to debug.
2. Right click and select Debug As -> Debug . . .
3. In the Debug dialog that appears, click on Remote Java Application on the left side of the Debug dialog and select New . . .
4. On the right side of the Debug dialog fill in the following:  
Name: a unique name  
Project: the Pluto source code project if you want to debug Pluto or your portlet project  
Connection Type: Standard (Socket Attach)  
Host: localhost (unless the Pluto server is somewhere else)  
Port: 8000 (what you set as JPDA\_ADDRESS above)  
Allow termination of remote VM: leave this unchecked
5. Click Debug button
6. Set one or more breakpoints
7. Open up a web browser and browse to the portal (<http://localhost:8080/pluto/portal>) and login
8. Browse to a portal page that will trigger a breakpoint. The control will switch back to Eclipse in debug mode.
9. Debug away (step over/ step into, etc)!
10. Click on the Disconnect icon to terminate debugging. Restart the debugger by selecting the name of the connection set up in Step 3 from the Debug icon on the toolbar.

### Remote Debugging in IDEA

Click on Edit Configurations -> Add New Configuration -> Remote -> Enter host(localhost)/port(8000).

Eventually disable "Make" before running. That's it - rest works just like normal debugging.

I haven't found a way to start pluto from inside IDEA, though.

### Remote Debugging in Net Beans

*Please contribute*