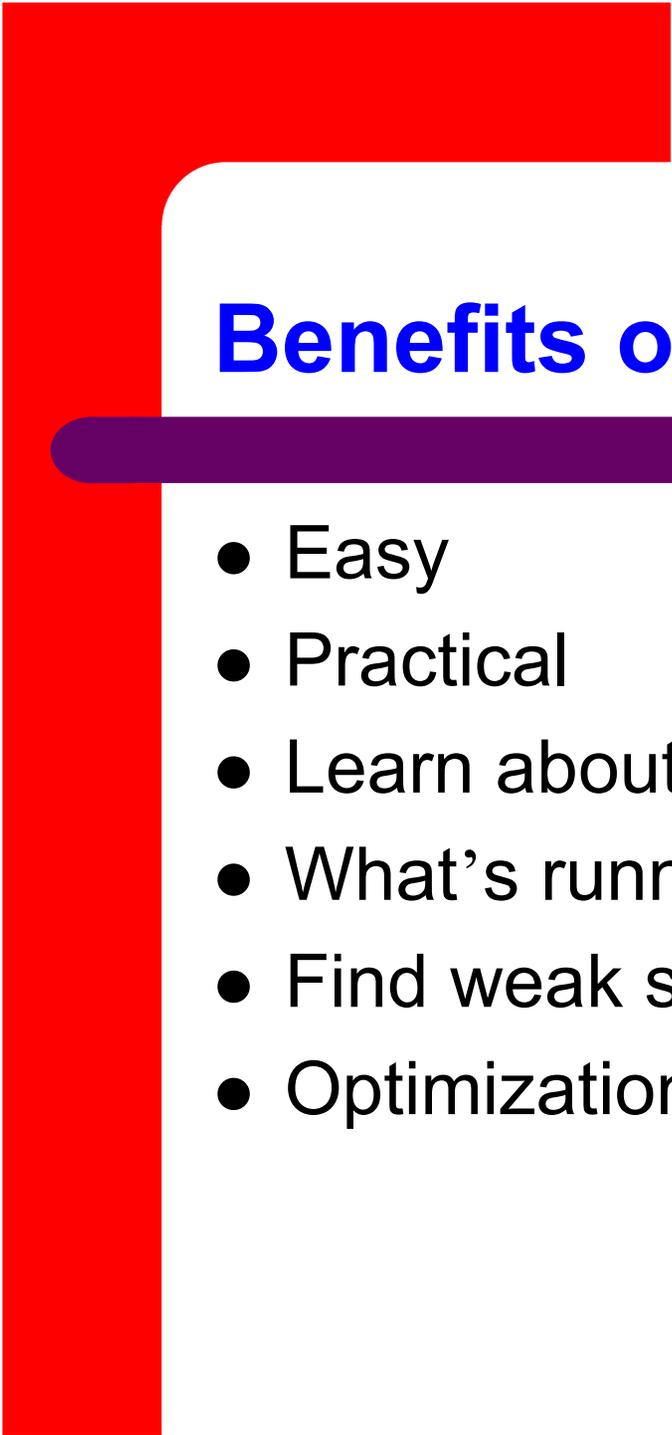


Profiling

Michael A. Hawker





Benefits of Profiling



- Easy
- Practical
- Learn about your program
- What's running where?
- Find weak spots
- Optimization

Roots: gprof

- Single Additional Compilation Option
- Run program
- Get Profile
- -pg
- programname
- gprof programname

Profiling in Java

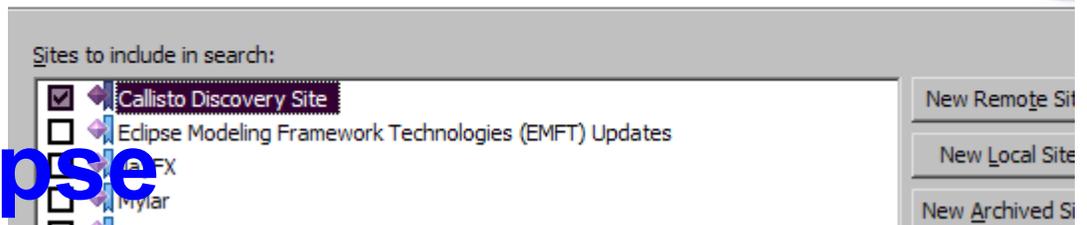
- Eclipse:
Test and Performance Tools Platform
- Just like any other plug-in
- Few extra options when running
- Visual Interface
- Control

Setup in Eclipse

- Help > Software Updates > Find and Install...
- Search for new features to install
- Select and Search Callisto Discovery Site
- Select TPTP Tracing and Profiling Tools
- Accept License
- Finish
- Wait...Restart

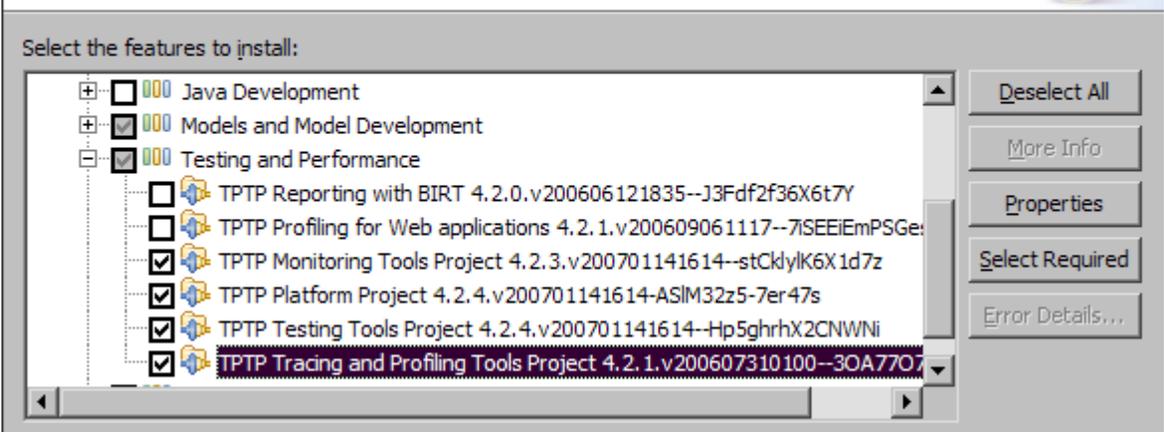
Update sites to visit

Select update sites to visit while looking for new features.

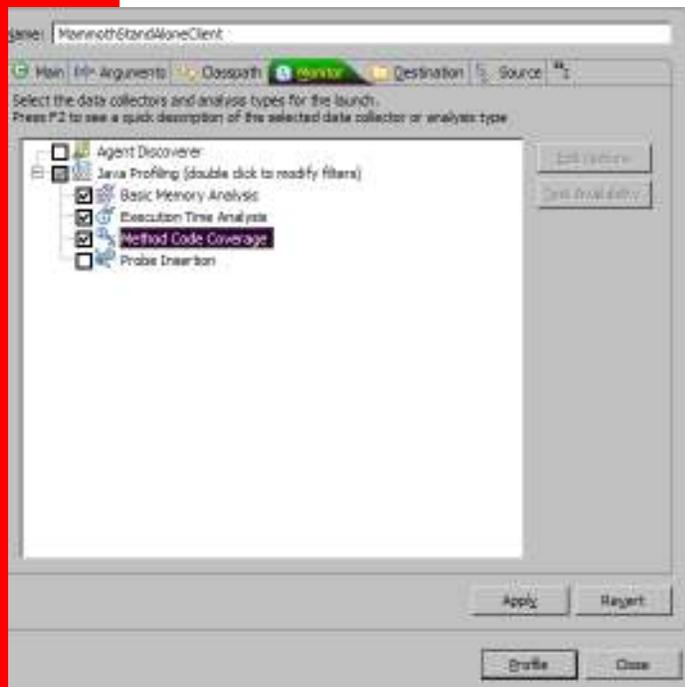
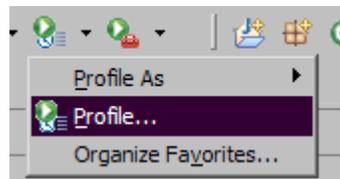


Search Results

Select features to install from the search result list.



Using TPTP in Eclipse



- You now have a Profile Run Option
- Click on it, and click on your usual run target
- You now have a “Monitor” Tab
- Select The Memory and Execution Analysis Options
- Click Profile!

Drawbacks to Profiling

- Short Samples can be inaccurate
- Profiling slows down actual performance with monitoring
- Still good approximation of what's taking the most time
- Initialization is included in your stats, be careful



END

Any Questions?

