



Testing the CDT



Testing Status - JUnits

- 3882 JUnits run as part of the nightly builds
 - 3237 core suite
 - 13 managed builder ui suite
 - 632 ui suite
- Others fail
 - Managed builder core suite crashes on build machine
 - Debug tests had failures so simply removed them
- We haven't measured coverage of this suite
 - I'd guess around 20%



Testing Status - Ad hoc testing

- A good number of the community take milestone builds and do test with them
 - Received a good number of bug reports from non-committers
- Once GA is announced then we get a lot of testing
- Vendors adopting the CDT test to put it in their products
 - Usually happens late in the game (post GA?)



Problems

- We have no real idea of the test coverage we get at GA
- We have no co-ordination of the test effort to ensure coverage
 - And to avoid duplication of coverage
- Very few products are released on the .0 version of a release
 - Everyone waits for the maintenance release (or two)



Problems

- Not all platforms tested equally
 - Who's testing on Solaris, Mac, ia64?

- We don't really specify what tool chain line-ups we support
 - Gcc, gdb, but what versions, what derivatives
 - What are people using when they test?

- Fixed deadlines, over committed development
 - Not sure all development plans include adequate time for testing
 - Fixed deadline, fixed resources, quality has to adjust



Possible solutions

- Grow our automated test base
 - And measure the coverage
 - Add in GUI tests to this mix

- Use an on-line test management tool to co-ordinate
 - Something like a Testzilla
 - Encourage community to contribute tests and results

- Slow down development
 - Make sure we allow adequate time for testing
 - Allocate time to write automated tests



Possible Solutions

- Better project scheduling
 - Especially milestones