

# CDT 5.0 Ganymede Release Review

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# Features

- What's new located here:
  - ◆ <http://wiki.eclipse.org/CDT/User/NewIn50>
- Highlights
  - ◆ New Refactoring Engine with New Refactorings
  - ◆ Improved coverage of CDT index
    - Esp macros
  - ◆ Improved content assist, search
  - ◆ Debug catchpoints as supported by gdb
  - ◆ Mylin Bridge
  - ◆ Doxygen support

# Non Code Aspects

- Localization/externalization
  - ◆ Continue to be managed by IBM
- Minor updates to user docs
- No other new work done on non-code aspects

# APIs

- Some effort towards finalizing APIs
  - ◆ At least intentions
- API freeze at M6 effectively managed
  - ◆ Very little API change post M6
- Quality of APIs continue to be an issue
  - ◆ Lack of public review
  - ◆ Lack of complete documentation
    - No programmers guide
  - ◆ APIs will likely continue to change in future releases
    - But also continue to be managed carefully

# Architectural Issues

- CDT 3.1 indexer architecture continues to show wins
  - ◆ Now with improved accuracy with same fast performance
  - ◆ Hope to remove Full (slow) indexer next release
- Multi-language support continues to progress
  - ◆ Work on extensible parsing, AST reuse
- CDT Debug Interface/Debug Services Framework
  - ◆ DSF continues to mature
  - ◆ Work still require to fully integrate the two (esp. launch)
- Build architecture quality remains elusive
  - ◆ Lots of new work in 4.0, but still some quality issues
  - ◆ Need to take a clean look next release
    - In conjunction with flexible resource model

# Tool Usability

- External tools integration strategy continues to shine
  - ◆ CDT becoming standard for everything but Microsoft
- Indexing continues to improve
  - ◆ More accurate results
  - ◆ More usable search, content assist, static analysis views
- Launch usability still an issue
  - ◆ Most vendors roll their own, ignoring CDT's built-in ones
  - ◆ CDT launch dialogs flexible but overly confusing

# End of Life

- CDT's old parser has been end of life'd
  - ◆ Previously used for outline view, compare
  - ◆ CDT's new DOM parser does all
- CDT's Full indexer is deprecated
  - ◆ Orders of magnitude slower, not much better accuracy
  - ◆ Focus on Fast indexer should help it match accuracy

# Bugzilla

- Since CDT 4.0 Europa released
  - ◆ 1332 bugs raised
  - ◆ 1088 bugs resolved
  - ◆ 827 bugs fixed
- 1290 bugs remain open
  - ◆ Up around 100 from CDT 4.0

# Standards

- Nothing new this release
  - ◆ All language support following appropriate standards

# UI Usability

- CDT does not actively follow UI guidelines
  - ◆ All vendors manage product integration issues contribute changes back
- IBM contributes internationalization, accessibility
  - ◆ No one else really cares, yet

# Schedule

- CDT 5.0 followed Ganymede schedule
  - ◆ No big misses

# Communities

- Volume of adopters continues to grow
  - ◆ More activity on the cdt-dev list from new players
- User community support improved
  - ◆ Handful of committers helping on newsgroup
- Committer community
  - ◆ 18 “active” committers, 2 “participating”, 3 “inactive”
  - ◆ Most committers part time at varying levels
  - ◆ Intel announced withdrawal of committers post 5.0 :(

# IP Issues

- The project leadership verifies that:
  - ♦ that the about files and use licenses are in place as per the Guidelines to Legal Documentation.
  - ♦ all contributions (code, documentation, images, etc) has been committed by individuals who are either Members of the Foundation, or have signed the appropriate Committer Agreement. In either case, these are individuals who have signed, and are abiding by, the Eclipse IP Policy.
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# IP Issues

- Project log located here:
  - ♦ [http://www.eclipse.org/cdt/releases/cdt5.0/CDT5\\_Project\\_log.html](http://www.eclipse.org/cdt/releases/cdt5.0/CDT5_Project_log.html)

# IP Issues Speak-Up-Now

# Project Plan

- Next Release – CDT 5.1
- Proposed Features
  - ◆ Tighter integration of DSF into CDT
  - ◆ Unification of Launch Configs
  - ◆ Improve Build System Architecture
    - Including Scanner Discovery
- CDT Summit
  - ◆ Sept 22-24
  - ◆ CDT 5.1 Plan to be finalized