



CDT 4.1 (5.0) Plan

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Maintenance and Community

- Continue to provide JUnit Tests
 - Tests for C-Content Assist
- Fix bugs reported in bugzilla
 - Fixed 444 bugs during the CDT 4.0 development cycle
- News Groups
 - Monitor and respond where necessary

C/C++ Editor



- C/C++ Editor
 - Mark Occurrences (new)
 - Macro Expansion Hover (new)
 - Outline View for Assembler (new)
 - Improvements for the Code Formatter (potential item)
- Content Assist
 - Proposal for includes (new)
 - Sorting of proposals by relevance (new)
 - Improve Content Assist for C
 - Honor accessibility in C++ (potential item)
 - Fix completion for using STL (potential item)



Editor Related

- Code Templates
 - Templates for C/C++ code generation, e.g. new class wizard (new)
 - Allow code templates to be overridden on project level (new)
 - Provide templates for new files (also non-C/C++) (new)
- C/C++ Compare
 - Migrate CStructureViewer to use DOM Parser

Tooling

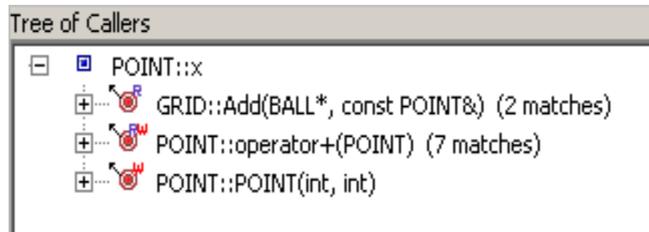


- Macro Expansion View (new)
 - Show expansion step by step.
 - Allow to compare two steps.

original	TRACE("%d", MAX(x,y));
expand TRACE	printf("%d", MAX(x,y));
expand MAX	printf("%d", x<y?y:x);

- Open Element
 - Add support for macros (new)
 - Working-sets (potential item)
- Type Hierarchy
 - Accessibility (potential item)

- Call Hierarchy



- Show polymorphic method calls (new)
- Show read/write access (new)



Parser and Indexer

- Remove old parser from CDT
 - Parser, Scanner2, AST (found at org.eclipse.cdt.core.parser.*)

- Split the DOMScanner into Lexer and Preprocessor
 - fix various combinations of line splicing, comments preprocessor directives
 - correct white-space handling (e.g. allow line-feed)
 - clean up the interface to the AST and fix the concept of AST locations

- Indexer
 - Optimize the size of the index (most strings can be stored as `byte[]`)
 - Model C-linkage within C++ (extern "C")
 - Model namespace composition
 - Handle the case where a header is changed after the source: Introduce heuristics on which files have to be re-indexed.
 - Decorator for files indexed (potential item).