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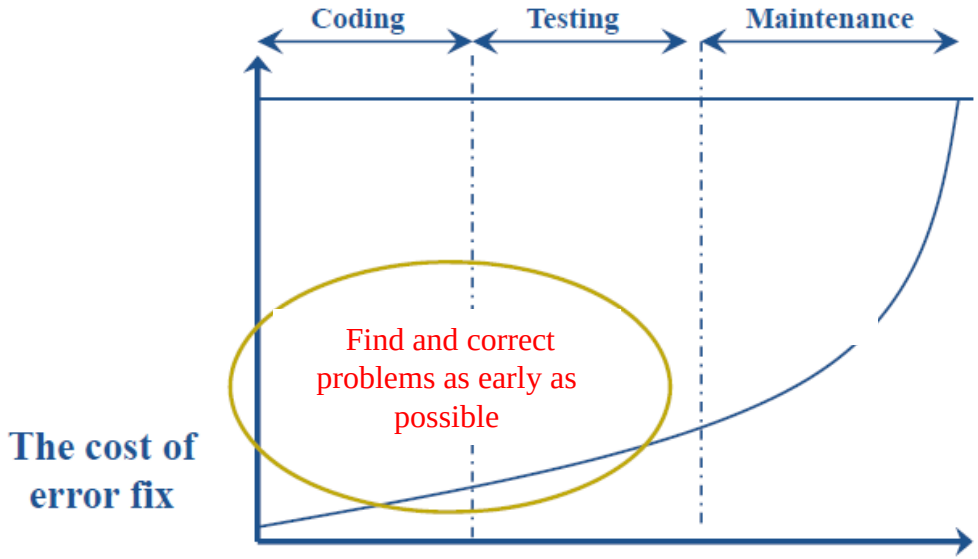
Atollic TrueINSPECTOR®

Improve software quality with static source code inspection!

Fenway Embedded Systems

Software errors are more expensive to find & fix later



By finding bugs earlier, you reduce cost, development time and secure your company/product reputation

Static source code inspection

What is it?	Static source code inspection is the process of analysing the source code of a program, in order to find potential errors automatically. Code metrics is often included.
Why do it?	By performing static source code inspection, development, testing and maintenance costs are reduced, and software quality is improved.
How does it work?	A tool build a parsing tree of the application, analyze the meaning of the code, and verify the code constructs using rules from a coding standard database.

MISRA® -C:2004

Reduce errors by limiting developer flexibility

What is it?	A coding standard developed by the automotive industry for improving reliability, safety, maintainability and portability of safety-critical systems.
Rule classifications	The rules can be classified as either being Required or only Advisory to use.
141 rules in 21 rule groups	Rule grouping for Environment, Language extensions, Documentation, Character sets, Identifiers, Types, Constants, Declarations and definitions, Initialization, Arithmetic type conversions, Pointer type conversions, Expressions, Control statement expressions, Control flow, Switch statements, Functions, Pointers and arrays, Structures and unions, Preprocessing directives, Standard libraries and Runtime failures.

Code metrics

Reduce errors by limiting code complexity

How is it gathered?	Code metrics is gathered by performing a static analysis of the source code.
What is the purpose?	Information on code complexity in different parts of the program gives hints on where the code needs to be simplified, thus reducing risk of errors and improving maintainability.
What is the benefit?	By simplifying complex sections of code, the likelihood of errors are reduced. This results in reduced costs, improved maintainability and higher software quality.

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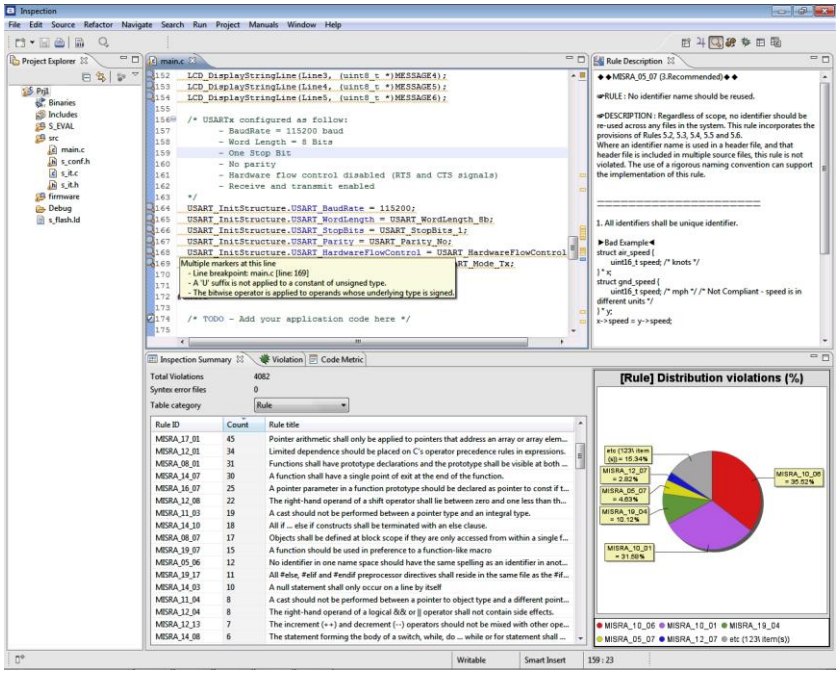
A tool for professional source code analysis



- Analyzes source code
- Validates the source code against the MISRA® -C:2004 coding standard
- Present code metrics (such as cyclomatic value of code complexity)
- Detects potential bugs and helps improve software quality

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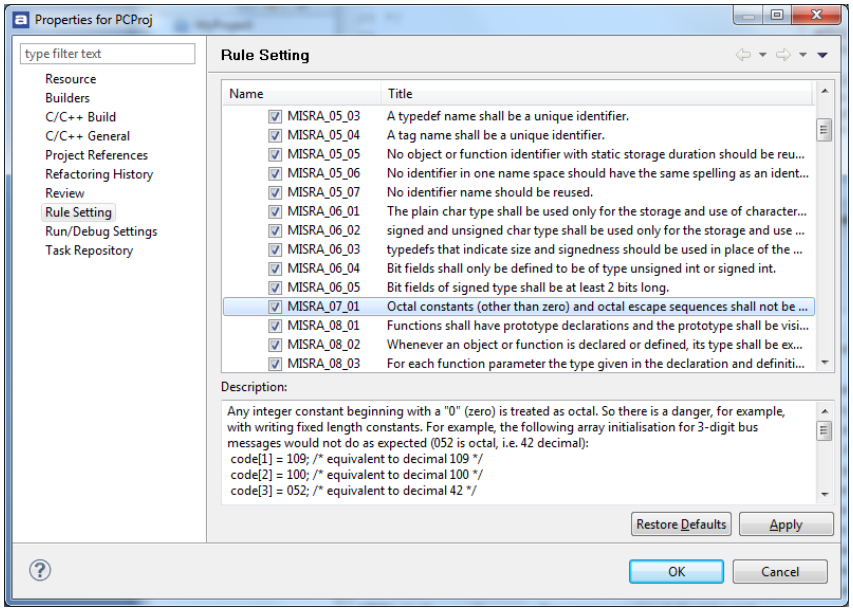
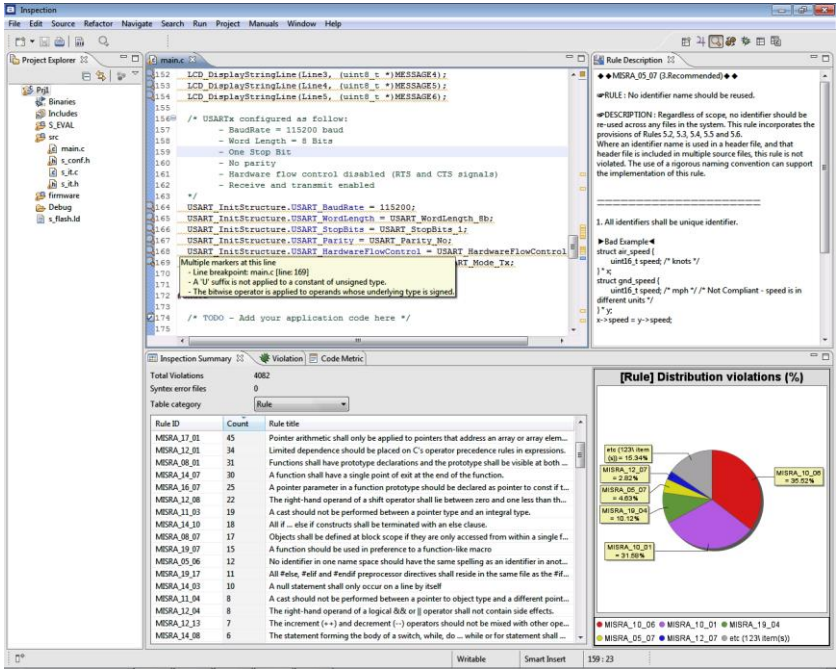
Selecting rules



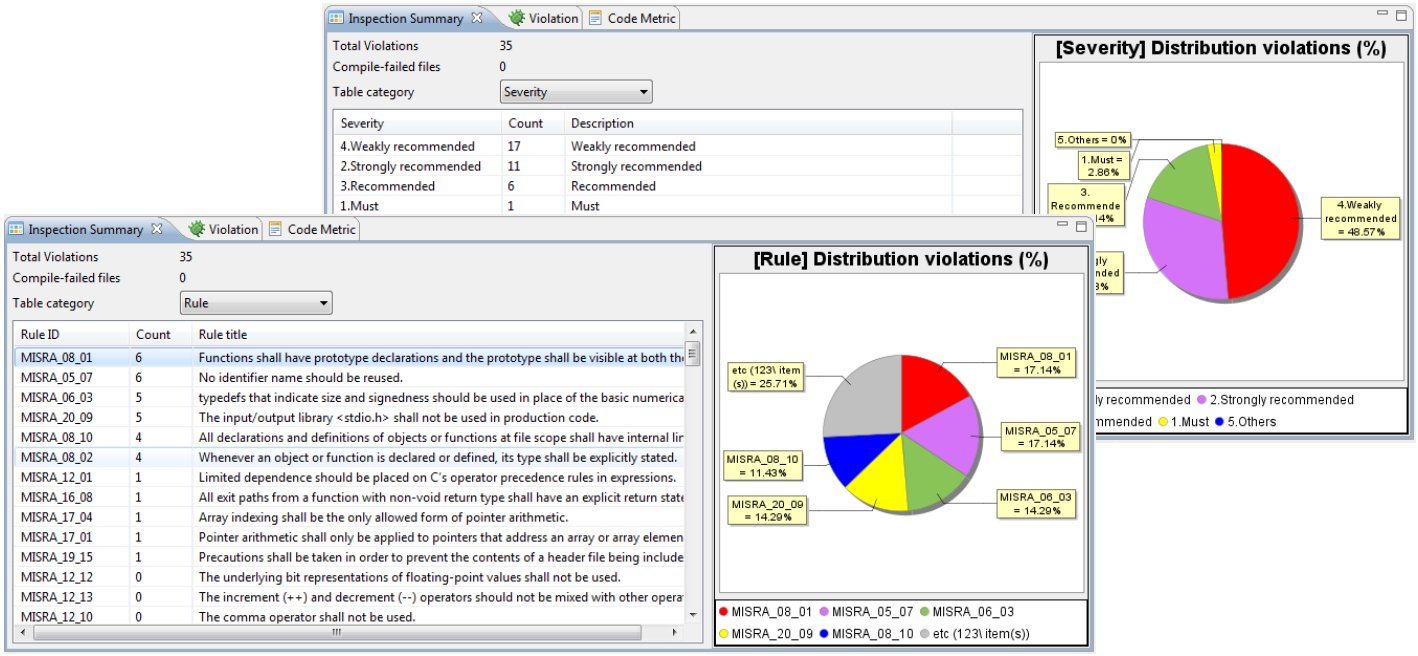
- Atollic TrueINSPECTOR® allows individual selection of rules in a formal rule database
- Each rule is annotated with a clear explanation of what it does, in addition to its formal name and title

Integration with the editor



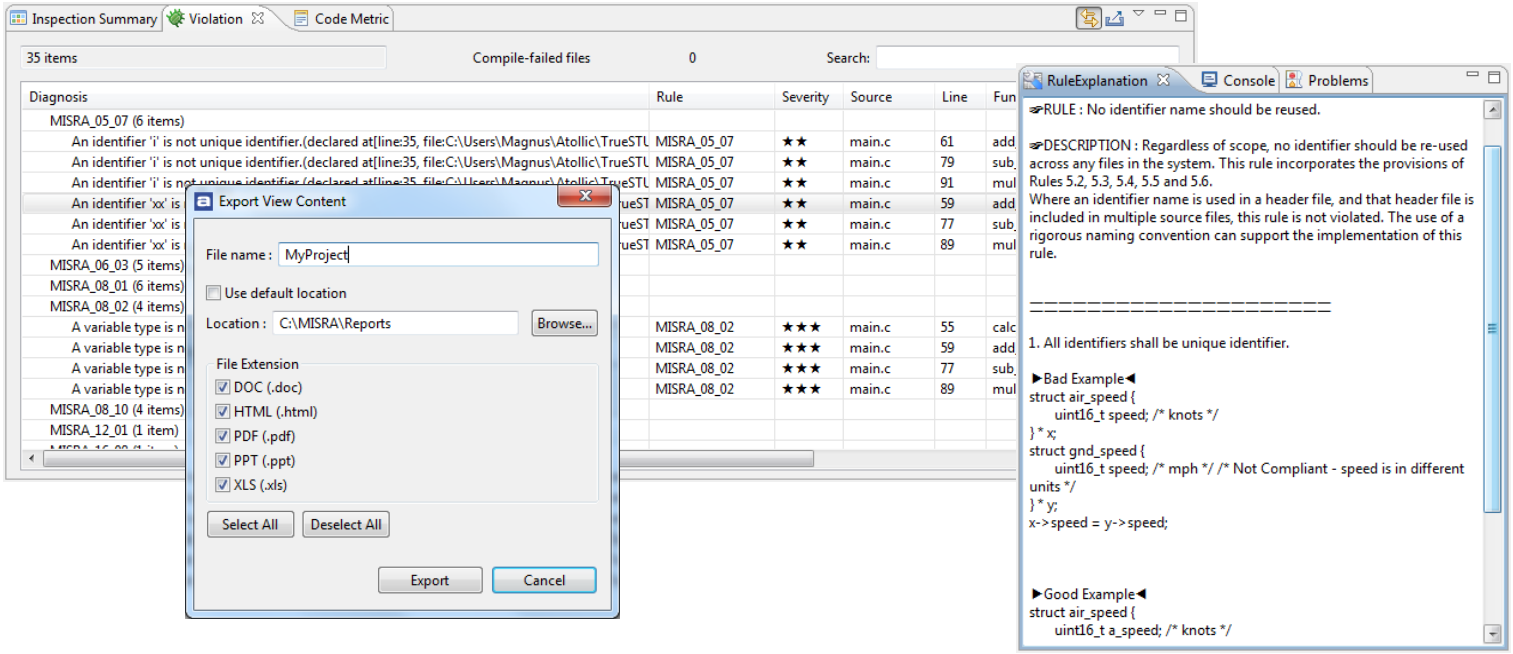
- Violating lines are flagged with markers in editor
- Tooltips explain the rule violation in detail
- The standard Problems view list rule violation problems, in addition to compiler errors and warnings
- Navigation from Problem view to editor lines

Inspection summary



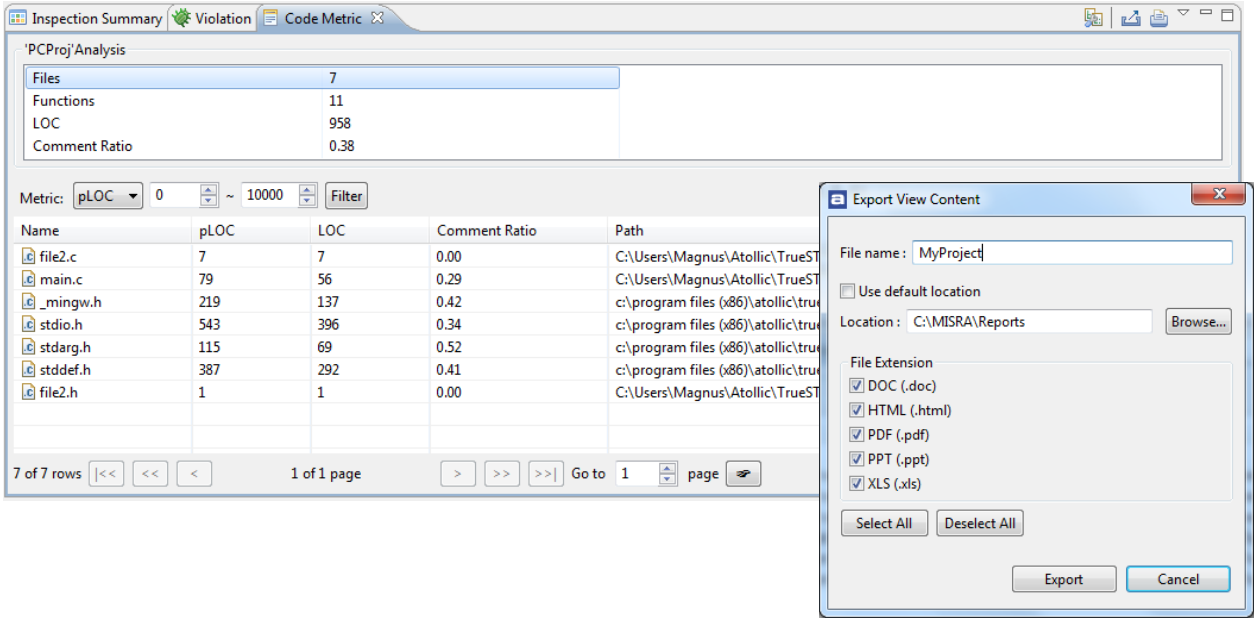
- Summary display of Rules, Files and Severity results
- Pie charts gives excellent overview
- Text reports gives detailed information
- Different sorting options

Rule violations



- List inspection violations per rule
- Explanation of rule details, the problem, and suggested solution
- Navigation links for every violation (jump to offending line in editor)
- Searching/filtering
- Export reports to MS-Word, MS-Excel, MS-PowerPoint, HTML and PDF

Code metrics



- Display of source code metrics
- Number of files, functions, lines and comment line ratio
- Cyclomatic value of code complexity
- Export reports to MS-Word®, MS-Excel®, MS-PowerPoint®, HTML and PDF

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DEMO

Improve your software quality with Atollic TrueINSPECTOR®!

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"Embedded passion"

Fenway Embedded Systems

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