

Soft4Soft

RESORT for C, C++, RESORT for Java, JSP, JS, Flex, RESORT for ABAP RESORT for QM

Integrated RESORT Code Analysis











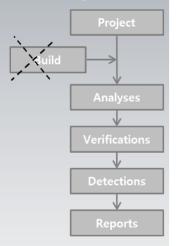
□RESORT Code Analysis Products

- RESORT for C
- RESORT for C++
- RESORT for Java(JSP)
- RESORT for JavaScript
- RESORT for Flex
- RESORT for ABAP

□RESORT Ouality Management Products

• RESORT for QM

□Using RESORT

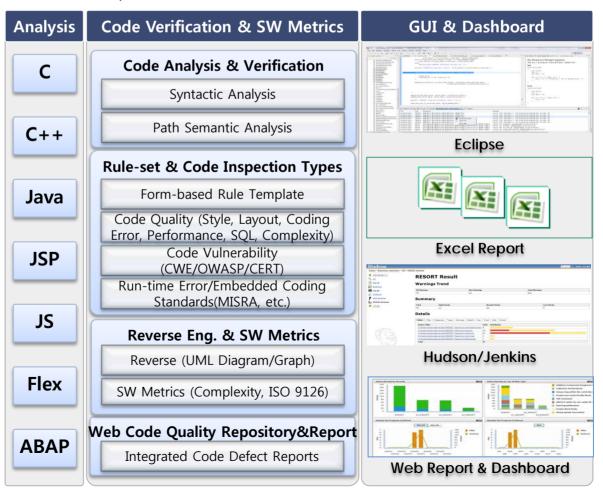


RESORT Integrity Product Line

Based on the uncompiled code only, RESORT is an static code analysis toolset to support code inspection, reverse engineering including software metrics measurement, and web-based code quality (defects) management solutions.

□ RESORT Features

- Works on source code only using RESORT Code Analysis Technology (Simple 4 step process analysis without building(compiler) step: Analysis-Verification-Detection-Report)
- Integrated code verification techniques from simple syntactic analysis to complex semantic analysis
- Integrated code defect detection (code quality, code vulnerability, runtime error, embedded coding standards)
- Reverse engineering (Package/Class/Sequence Diagram, File/Call Graph, Control-flow Graph, Variable Reference Graph, etc.)
- SW metrics measurement and evaluation (SW size and structure Metrics, Halstead Metrics, ISO 9126 maintainability, MISRA Metrics)
- Web-based integrated defect analysis reports (Defect density, Defect Trend, Defect comparison, etc.)
- Automated code quality verification process (Interworking with existing SCM tools)





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- RESORT for C
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□Defects, Errors, and Vulnerabilities



Non-Defects

RESORT - Code Checker Tool

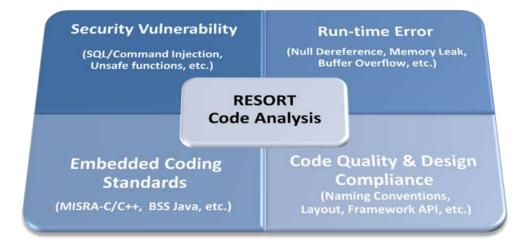
Based on RESORT Code Analysis without executing the source code, RESORT's Code Checker identifies all defects of code quality, code vulnerability, runtime error, and embedded coding standards.

□ RESORT Code Inspection Types

- Coding Style and Coding Error (Naming convention and length, Comment, Layout, Dead Code, Unreachable Code, SQL, etc.)
- Design and Development Compliance (Architecture, Framework, Metadata, etc.)
- Run-time Error (Buffer Overflow, Null Pointer Dereference, Division by Zero, Memory/Resource Leak, Use After Free, Double Free, Free null Point, Uncontrolled Recursion, Data Anomaly, etc.)
- Code Vulnerability (SQL/Command/Resource/Xquery/Xpath/LDAP injection, Cross-site Scripting, Hard-coded Password, Password Comment, etc)
- Secure Coding Standards (CERT, CWE, OWASP, Android, ABAP Backdoor)
- Embedded Coding Standards (MISRA C, MISRA C++, HealthCare C++, Railway Control System C&C++, JPL Java & C Coding Standard, etc.)
- Total number of rules per each language: 500+

□ RESORT Code Analysis Technology

- Intra-procedural Control/Data flow Analysis, Path-sensitive Interprocedural Data flow Analysis
- Automatic collection of library path for C/C++, reducing source analysis setting time























RESORT - SW Quality Tool

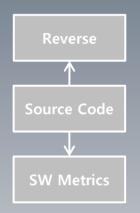
□RESORT SW

Quality

Products

- RESORT for C
- RESORT for C++
- RESORT for Java(JSP)

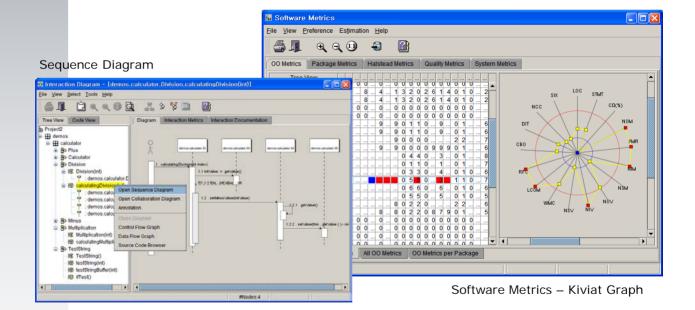
□Visualization



Reverse Engineering Tool supports a comprehensive visualization and OO/procedure metrics solution that analyzes a software system to identify its current modules and dependencies, to extract and create system abstraction and design information.

□ RESORT Visualization Features

- Hybrid reverse engineering approach combining UML diagram/graph and OO/procedure metrics
- (Java) Automatic UML diagram/graph generation from package to method level: Class(Package) Diagram, Sequence(Collaboration) Diagram, Call Graph, Control Flow Graph, Data Flow Graph
- (C/C++) Automatic UML diagrams/graphs generation from file to function level: File Diagram, Call Graph, Variable Reference Graph, Control Flow Graph, Data Flow Graph
- (Java) Supporting 100+ software metrics such as size, structure and OO metrics: OO Metrics, Package Metrics, Halstead Metrics, Quality Metrics(ISO 9126 maintainability), System Metrics
- (C/C++) Supporting 100+ software metrics such as size and structure metrics: Procedure Metrics, Halstead Metrics, Quality Metrics(ISO 9126 maintainability)





RESORT - Web Quality Management Tool

□RESORT

Ouality

Management

Products

• RESORT for QM

□Integrated Reporting Statistics

Web Reports

Code

Quality Management Tool synthetically manages and controls the results of software metrics measurement and code defect detection per project. The tool provides quality analysis services for quality assurance or control by monitoring defect assessments and trend comparisons.

□ RESORT Dashboard Types

- Code Quality Management: defect density analysis (per week/month)
- Code Quality Evaluation: compliance ration(%) per defect severity
- Detailed review per file: defect severity and code bug
- Reports per #Defect/KLOC/File



□ Platform and System Requirements

• Platform: Windows, Linux, UNIX, Solaris, AIX, Mac OS, etc.

• SW: SUN JDK 1.5.x or higher

• Memory: 4GB higher

☐ License and IDEs

- Floating License(Concurrent-user): PC Desktop/IDE Plug-in
- Server License(Node-locked): Server Machine/CLI
- IDE Plug-in: (Floating) Eclipse, UltraEdit, IBM RSA, MS Visual Studio, Oracle JDeveloper, (Server) Hudson/Jenkins

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