

RESORT Static Analysis Toolset

Based on RESORT's inter-procedural control & data flow analysis framework without executing the C, C++, Java, and SAP ABAP source code. RESORT's Code Checker detects all code defects and measures software metrics.

❑ IDE Plug-in

- Eclipse
Kepler/Europa
- Ultra Edit
- JDeveloper
- Visual Studio
- Rational Software Architect
- Any Frameworks



❑ CI-Server Plug-in

- Jenkins
- Hudson

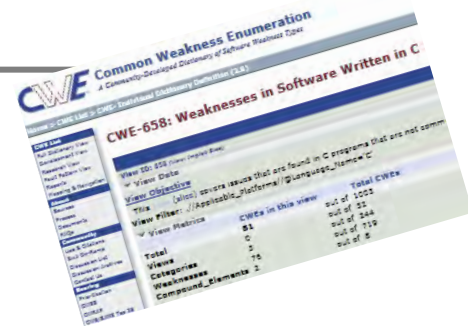


❑ RESORT Product Features

- **Source Code Analysis:** Works on source code only using "RESORT Code Analysis" technology without building (compile) step
- **Code Defect Detection:** identifies all defects of code quality, code vulnerability, run-time error, and embedded coding standards

Embedded Coding Standards

- MISRA-C2004, MISRA-C:2012, MISRA-C++:2008
- (Aerospace) JPL & BSSC Java/C
- (Railroad: EN50128) C/C++, (Healthcare) C++

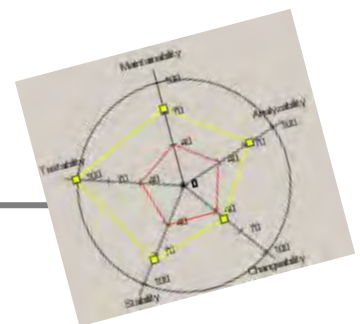


Run-time Error

- CWE-658(in C), CWE-659(in C++), CWE-660(in Java)

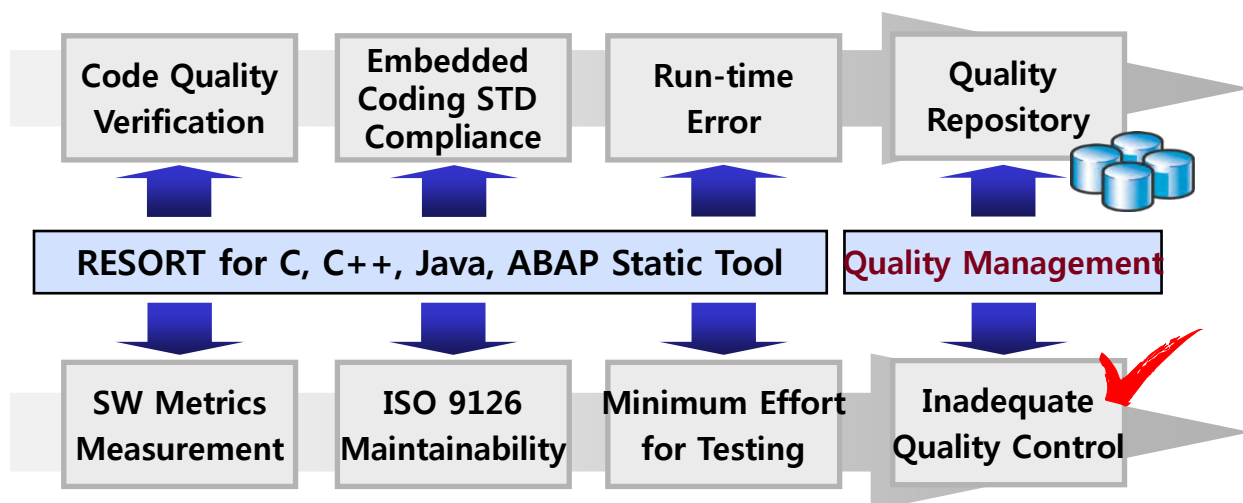
Security Vulnerability

- Juliet Test Suite C/C++, Java
- CERT C, CERT, C++, CERT Java
- CWE Top 25, OWASP Top 10



SW Metrics

- MISRA Software Metrics, HIS Source Code Metrics
- ISO 9126 Maintainability Quality Metrics



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RESORT Static Analysis Toolset

RESORT Code Analysis Technologies

- Intra-procedural Control & Data flow Analysis
- Automatic collection of library path for C/C++, reducing source analysis setting time
- **Total number of rules per each language: 500+**

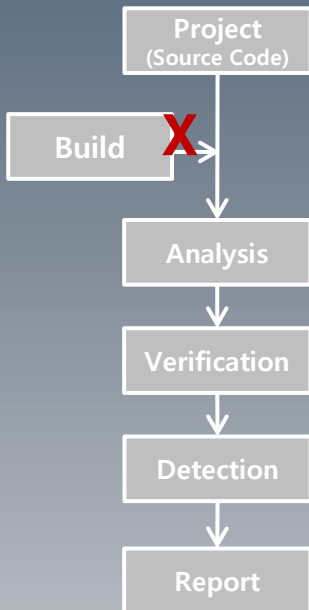
RESORT Platform and System Requirements

- Platform: Windows, Linux, UNIX, Solaris, AIX, Mac OS, etc.
- SW: SUN JDK 1.7.x or higher
- Source Control: SVN, CVS, ClearCase, Dimensions, etc

RESORT Quality Certifications

- MISRA C, MISRA C++ Copyright License (MIRA LIMITED: 2010)
- IEC 61508, EN 50128 (DNV GL Business Assurance: 2014)
- ISO 26262 (DNV GL Business Assurance: 2016 -to be scheduled)
- ABAP Patent: US, Austria, Japan, China

Using RESORT Toolset



Secure Vulnerabilities



		Defect	SW Metrics	Embedded Coding Standard	Run-time Error	Dynamic Run-time Error	Security Vulnerability
Verification							
Technology	Static Analysis		✓	✓			✓
	Semantic Analysis				✓		✓
	Math Analysis					✓	
RESORT Code Analysis			✓	✓	✓	✓ (to be)	✓
Tools	QA-C/C++		✓	✓			
	CodeSonar				✓		✓
	Coverity				✓		
	Fortify						✓
Coding Standards			• MISRA SW Metrics • HIS Source Code Metrics • ISO 9126 Quality	• MISRA-C:2004 (141Rule) • MISRA-C:2012 (159Rule) • MISRA-C++:2008 (228Rule)	• CWE-658 (C, 81Rule) • CWE-659 (C++, 85Rule) • CWE-660 (Java, 74Rule)	• DO-178B, Table A-5 • ISO 26262, Part6 Table9 • IEC 61508, Table B.8 • EN 50128, D69	• Juliet test suite C/C++ (118 CWE-ID), Java (112 CWE-ID) • CERT C, C++, Java • CWE,OWASP

