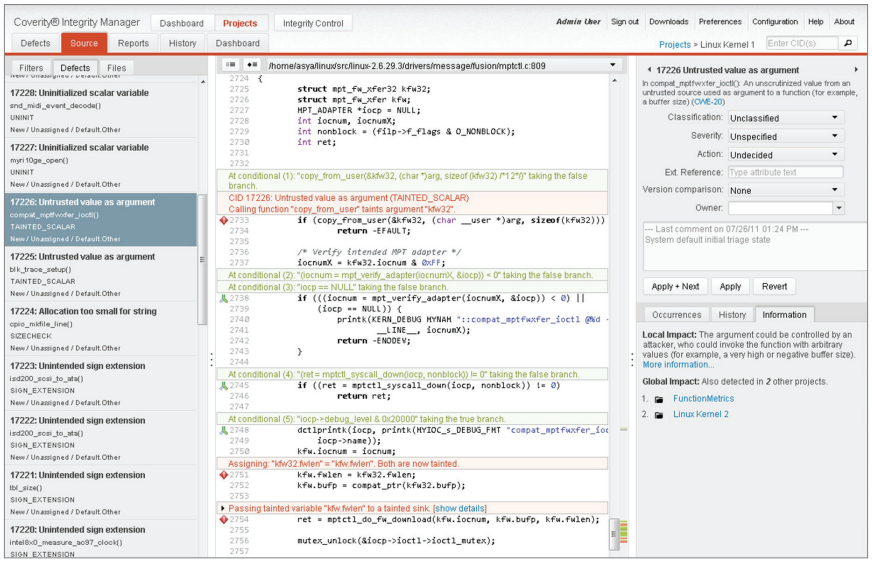
Coverity® Static Analysis

Coverity® Static Analysis (CSA) helps developers find hard-to-spot, yet potentially crash-causing defects early in the software development life-cycle, reducing the cost, time, and risk of software errors.



Understand the severity and impact of a defect on the projects and the products that share code to make better decisions on which defects to fix first.

- **Concurrency defects** such as deadlocks, race conditions and blocking misuse
- **Performance degradation** problems due to memory leaks, file handle leaks, custom memory and network resource leaks, database connection leaks
- **Crash causing errors** such as null pointer dereference, use-after-free, doublefree, improper memory allocation, and mismatched array new/delete
- **Incorrect Program Behavior** caused by dead code, uninitialized variables, invalid use of negative variables
- **Improper use of APIs** with C++ STL usage errors
- **Security vulnerabilities** due to buffer overflows, insufficient validation, etc.

Key Features

Best of Breed Analysis
Coverity Static Analysis leverages the most innovative, sophisticated and patented techniques to help you find defects in your code that are difficult, if not impossible, to find by other means. With the most accurate analysis engine on the market, Coverity Static Analysis provides the lowest false positive rate in the industry.

Integration with the Developer Workflow
Analyze, triage, and repair defects from the developer desktop for improved productivity. Out-of-the-box integration with Jenkins continuous integration server enables code to be automatically tested with every build. Easily integrates with the existing development environment.

Defect Management and Impact Management
Quickly identify the exact location where defects occur in the code across branches, streams, and projects for faster triage. View defects by severity level, understand business impact and link to the CWE for more information. Automatically assign defects to the responsible developer for faster resolution.

Performance and Scale
Coverity parallel analysis runs simultaneously on up to eight cores enabling complex code bases to be scanned on a regular basis, permitting teams to adopt Coverity development testing as part of the nightly build or continuous build process. Coverity is proven to scale to the largest code bases with no impact on the central build environment.

Extensible Platform
Integrate defects identified in Java code via FindBugs™ into a single workflow via Coverity Integrity Manager. View FindBugs defects, prioritized alongside Coverity defects, and manage them together in your existing workflow. CSA's extensible platform allows rapid integration of additional components of the development environment including source control and bug tracking systems.

Supported Environments

Coverity Static Analysis for C/C ++

Supported Platforms	Supported Compilers[1]	Supported IDEs	Minimum System Requirements[2]
• AIX • FreeBSD • HP-UX • Linux • Mac OS X • NetBSD • Solaris • Windows	• ARM • Cosmic C Cross Compilers • Freescale Code Warrior • GNU GCC, G++ • Green Hills • HP aCC • IAR • IBM, XLC • Intel C++ • Keil • QNX • Renesas • Sun (Oracle)CC and cc • Texas Instruments • Visual Studio • WindRiver • Xcode GCC and G++	• Eclipse v3.5, v3.6, v3.7 • WindRiver Workbench v3.2, v3.3 • Visual Studio versions 2005, 2008, and 2010	• 1 GHz CPU • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space

Coverity Static Analysis for C#

Supported Platforms	Supported IDEs	Minimum System Requirements
• Windows	• Visual Studio versions 2005, 2008, and 2010	• 1 GHz CPU • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space

Coverity Static Analysis for Java

Supported Platforms	Supported IDEs	System Requirements
• Linux • Mac OS X • NetBSD • Solaris • Windows	• Eclipse v3.5, v3.6, v3.7	• 1 GHz CPU • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space

Coverity Integrity Manager Browser Support

Browser	Minimum System Requirements
• Internet Explorer 7, 8 or 9 • Firefox 5 or later • Google Chrome 7 or later • Safari 5 5 or later	• Dual core Intel® x86 or A MD 3.0GHz processor 64-bit 2 GB of free RAM • Additional deployment scenarios are supported

[1] The list represents the most commonly used compilers that are supported.

[2] Parallel analysis will require additional CPU cores and a minimum of .5GB per additional worker

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