

# Parasoft Jtest



EVERYTHING YOU NEED TO TEST YOUR JAVA APPLICATION

## TRY IT

<https://software.parasoft.com/jtest>

## SAVE TIME AND INNOVATE MORE

- Accelerate agile development with a comprehensive, automated testing strategy
- Automate static analysis and unit testing as part of your continuous testing strategy, to provide a constant safety net for the development process
- Shift-left the identification of problems relating to non-functional business requirements such as performance and security
- Seamlessly integrate with Parasoft's entire automated testing tool suite, to address quality across your entire ecosystem

## Accelerate the delivery of reliable and secure Java applications.

Parasoft Jtest enables you to accelerate Java software development while minimizing risks introduced into the code, by providing comprehensive analysis, guidance, and tools to get the job done.

Parasoft Jtest is an integrated development testing solution for Java that enables developers to quickly analyze their code for critical defects or security vulnerabilities and efficiently perform unit testing with the powerful Unit Test Assistant.

Jtest helps organizations reduce risk, cut costs, increase productivity, and achieve industry compliance goals by automating a critical set of software testing needs.

When used alongside Parasoft DTP for its additional analytics and reports, Jtest can collect and merge coverage data by leveraging tools such as Parasoft SOAtest, enabling end-to-end functional and load testing for today's complex distributed applications and transactions.

### REDUCE TEST CASE CREATION IN HALF

Use the Unit Test Assistant to drastically speed the time it takes to create and maintain JUnit test cases.

### IMPROVE CODE QUALITY AND SECURITY

Shift-left the prevention of security and quality defects with deep code analysis, enabling early-stage detection of defects such as resource leaks and security vulnerabilities.

### AUTOMATE CODE ANALYSIS FOR COMPLIANCE

Configure checks for over 1000 built-in static analysis rules for Java, including OWASP, CWE-SANS, PCI DSS, and other security standards.

### IMPROVE CODE COVERAGE & TEST TRACEABILITY

Access on-demand code coverage assessments with test case traceability and track progress toward quality and schedule targets.

“ Parasoft Jtest takes testing to a whole new level, well beyond any other testing solution. With high rates of code change, we can't avoid problems from occurring, but we can now identify and address them as soon as they occur, which is when it's fastest, easiest, and cheapest to fix them. ”



## STATIC ANALYSIS & STATIC APPLICATION SECURITY TESTING

Parasoft Jtest quickly goes beyond open-source to fully audit your code, finding issues ranging from defect-causing API misuse, to serious security flaws.

### ELIMINATE DEFECTS

Quickly find and fix code defects with complete path analysis for accurate violation detection

### CUSTOMIZE

Create custom pattern-based rules specific to your development environment and practices

### MEASURE AND MANAGE

Leverage Parasoft DTP for centralized reporting, giving the team immediate visibility and feedback.

### INTEGRATE WITH WORKFLOWS

Seamlessly integrate with existing continuous integration infrastructure, leveraging team-based configurations and workflows.

## JTEST'S UNIT TEST ASSISTANT FOR JUNIT

Jtest's Unit Test Assistant removes the tedious and mundane tasks of creating unit tests, freeing the developer to focus on the business logic of those tests and ultimately creating more meaningful, maintainable test suites. It facilitates creating, assessing, and enhancing JUnit tests for POJO and Spring framework classes, reducing the time and learning curve required to create and maintain tests, and helping you identify and fix testability problems before you check code into the Continuous Integration workflow.

The Unit Test Assistant guides you through the entire process of creating, isolating (with PowerMock & Mockito support), and assessing unit tests. By analyzing code, it helps you create valuable tests from scratch, as well as modify the existing tests to ensure their quality and compliance with unit testing standards. With the Unit Test Assistant's test parameterization, recommendations, and hints, you can develop your expertise in creating, extending, and customizing high coverage unit tests.

## COVERAGE ANALYSIS AND TEST TRACEABILITY

Use Parasoft Jtest and its integration with Parasoft DTP to get broader visibility into what you're testing, how well you're testing it, and how to customize test plans based on priorities.

### TRACEABILITY OF TEST TO CODE

Get comprehensive coverage analysis from up and down the testing pyramid. No matter what types of testing you're doing (unit testing, functional testing, or manual testing), Parasoft can combine and merge together each of the techniques to give you a complete view of how well you're testing the codebase. With granular coverage analysis, Parasoft retains traceability from an individual test to the underlying code that it's testing and exercising.

### TRACEABILITY OF TEST TO REQUIREMENT

With Parasoft, you can associate tests with requirements and user stories from your original system of record (e.g. Jira). The ability to link back to the original requirements/issue management system allows you to easily verify which capabilities have been tested and start to understand the impact of test failures across documented user stories and reported defects. Leverage this visibility for product releases to quickly make objective and informed business decisions.

### SUPPORTED OPERATING SYSTEMS

Windows  
Linux  
Mac

### SUPPORTED IDES

Eclipse  
IntelliJ IDEA  
NetBeans

### BUILD SYSTEMS

Ant  
Maven  
Gradle

### CONTINUOUS INTEGRATION

Bamboo  
Jenkins  
Team City  
[+ others](#)

### SOURCE CONTROL

AccuRev SCM Borland StarTeam CVS  
Git  
IBM Rational ClearCase  
IBM Rational Synergy  
Mercurial  
Microsoft Team Foundation Server  
Perforce SCM  
Serena Dimensions  
Subversion (SVN)  
[+ a source control API, which allows teams to integrate with other source control systems](#)

