

Wikiprint Book

Title: JPF Projects

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Table of Contents

TracNav	3
Introduction...	3
Installing JPF...	3
User Guide...	3
Developer Guide...	3
Projects	3
About...	3
JPF Projects	4

TracNav

- [JPFWiki](#) - Welcome Page

[Introduction...](#)

[Installing JPF...](#)

[User Guide...](#)

[Developer Guide...](#)

[Projects](#)

- [jpf-core](#)
 - [jpf-actor](#)
 - [jpf.awt](#)
 - [jpf.awt-shell](#)
 - [jpf-concurrent](#)
 - [jpf-cv](#)
 - [jpf-delayed](#)
 - [jpf-guided-test](#)
 - [jpf-mango](#)
 - [jpf-racefinder](#)
 - [jpf-rtembed](#)
 - [jpf-statechart](#)
 - [net-iocache](#)
 - [jpf-aprop](#)
 - [jpf-numeric](#)
 - [jpf-symbc](#)
 - [jpf-concolic](#)
 - [jpf-symbc-load?](#)
 - [jpf-extended-test-gen](#)
 - [jpf-parallel-spf?](#)
 - [eclipse-jpf](#)
 - [netbeans-jpf](#)
 - [jpf-inspector](#)
 - [jpf-shell](#)
 - [jpf-template](#)
 - [jpf-trace-server](#)
 - [standard NB example](#)
- [Summer Projects](#)
 - [External Projects](#)
 - [Change\(B\)log](#)

[About...](#)

- [Events](#)
- [Presentations](#)
- [Papers](#)
- [FAQ](#)
- [History?](#)
- [Support](#)
- [People?](#)
- [Playground](#)
- [Table of Context](#)

JPF Projects

JPF is divided into separate [runtime modules](#), each one being maintained as its own project. The *jpf-core* component is always required, but all other ones are optional. If you are familiar with JPF, those are the *extensions*, implementing different execution modes, special properties or alternative library models.

Each component project has its own repository, and project pages can include binary snapshots as attached files.

Here is the list of components that are available from this server, each with more details about purpose, installation and use. If you don't find an extension that was in the JPF v4 distribution (SourceForge), don't worry - we are in the process of porting them.

- [jpf-core](#) - the VM and core mechanisms used by all other projects - explicit state model checking for Java bytecode
- [jpf-actor](#) - Tool and framework for systematic testing of actor programs (e.g. Scala)
- [jpf-aprop](#) - Java annotation based properties and their corresponding checkers
- [jpf-awt](#) - JPF specific library implementations for `java.awt` and `javax.swing`
- [jpf-awt-shell](#) - specialized JPF shell for model checking `java.awt` and `javax.swing` applications
- [jpf-concurrent](#) - optimized `java.util.concurrent` library implementation for JPF
- [jpf-delayed](#) - postpones non-deterministic choice of values until they are used
- [jpf-guided-test](#) - Framework for guiding the search using heuristics and static analysis
- [jpf-mango](#) - specification and proof artifact generation
- [jpf-numeric](#) - an alternative bytecode set for inspection of numeric programs
- [jpf-statechart](#) - UML statechart modeling
- [net-iocache](#) - I/O cache extension to handle network communication
- [jpf-rtembed](#) - verification of Java programs for real-time and embedded platforms (e.g. RTSJ and SCJ)
- [jpf-symbc](#) - Symbolic PathFinder - symbolic execution for Java bytecode
- [jpf-concolic](#) - concolic (mixed concrete/symbolic) execution for Java bytecode
- [jpf-symbc-load?](#) - Symbolic Load Test Generation
- [jpf-extended-test-gen](#) - Using JPF and SPF for generating tests with respect to MC/DC coverage
- [jpf-parallel-spf?](#) - Generic framework for parallelizing SPF (needs jpf-extended-test-gen, jpf-symbc, jpf-core)
- [eclipse-jpf](#) - JPF launcher plugin for Eclipse IDE
- [jpf-shell](#) - the generic user interface support for JPF
- [netbeans-jpf](#) - JPF launcher plugin for NetBeans IDE
- [jpf-inspector](#) - a tool for inspection and control of JPF execution
- [jpf-trace-server](#) - enables storing, querying and analysis of the execution trace