

Wikiprint Book

Title: Welcome to the Java™Pathfinder Wiki

Subject: Java Path Finder - start

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Welcome to the Java™Pathfinder Wiki

TracNav

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Latest News:

09/04/2009 - new JPF distribution structure goes live (core and extensions become their own projects)

08/29/2009 - JPF finally got its own server with Trac Wiki and Mercurial repositories

07/22/2009 - JPF won the 2009 "Outstanding Technology Development Award" of the Federal Laboratory Consortium (FLC), Far West Division

This is the main page for Java™ Pathfinder, or "JPF" as we call it from here. JPF is an extensible software model checking framework for Java™ bytecode programs. The system was developed at the [NASA Ames Research Center](#), open sourced in 2005, and is freely available on [Sourceforge](#) under the [NOSA 1.3](#) license.

The JPFWiki is our primary source of documentation. It is divided into the following sections:

[What is JPF?](#) -- a brief introduction into model checking and JPF

- [SW model checking by example](#)
- [What are JPF's special features?](#)

[How to obtain and install JPF](#) -- everything to get it running on your machine

- [System requirements](#)
- repository access from [shell](#), [Eclipse?](#) or [NetBeans?](#)
- installing the [Eclipse?](#) or [NetBeans?](#) plugins

[How to use JPF](#) -- essentially the user manual for JPF

- [JPF application types](#) and [runtime components](#)
- [running](#) and [configuring](#) JPF
- [understanding JPF output](#)
- [using the Verify API](#)

[Developer guide](#) -- what's under the hood

- [the toplevel design](#)
- key mechanisms like [ChoiceGenerators](#) and [partial order reduction](#)
- [extension mechanisms?](#) like [Listeners](#), [Search Strategies?](#), [Model Java Interface \(MJI\)](#), [Bytecode Factories](#), [Property checks?](#), [Publishers?](#)
- [running JPF from within your application](#)
- [directory structure?](#) and [coding conventions](#)
- [writing JPF tests](#)

• [Extension projects?](#) -- descriptions and links to JPF extension projects

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[Organization](#) -- how are artifacts and work organized

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• [News?](#) -- what's going on right now

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