

Wikiprint Book

Title: Welcome to the JPF Wiki

Subject: Java Path Finder - WikiStart

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Latest News:

09/05/2009 - extension and core split into separate repositories/projects (all on the JPF server)

09/02/2009 - JPF server goes live

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

Welcome to the JPF Wiki

This is the main page for Java™ Pathfinder, or "**JPF**" as we call it from here. JPF is a highly customizable execution environment for verification of Java™ bytecode programs. The system was developed at the [NASA Ames Research Center](#), open sourced in 2005, and is freely available from this server under the [NOSA 1.3](#) license.

The JPFWiki is our primary source of documentation. It is divided into the following sections (which you will always see in the TOC menu to the right):

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

- [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 \(MJJ\)](#), [Bytecode Factories](#), [Property checks?](#), [Publishers?](#)
- [running JPF from within your application](#)
- [directory structure?](#) and [coding conventions](#)
- [writing JPF tests](#)
- [Projects](#) -- descriptions of available JPF projects and repositories
- [Related Research and publications](#)
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 - [About this Wiki](#)
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 - [How to get a JPF contributor account](#)
- [History and credentials?](#) -- how did we get here
- [News?](#) -- what's going on right now
- [Future Plans?](#) -- where do we want to go

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