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Latest News:

09/02/2009 - JPF server <http://babelfish.arc.nasa.gov/trac/jpf> goes live, featuring the JPFWiki and separate Mercurial repositories for JPF core and extension projects

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 what sets it part from normal testing

- [software model checking examples](#) (as one possible JPF application)

[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](#)

- [configuring](#) and [running](#) 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](#)
- [Projects](#) -- descriptions of available JPF projects and repositories
- [Related Research and publications](#)
- [About](#) -- how are artifacts and work organized
 - [About this Wiki](#)
 - [About the Development Process?](#)
 - [About the source repositories?](#)
 - [How to contribute](#)
 - [How to get a JPF contributor account](#)
- [FAQ](#) -- answers to all your questions (eventually)
- [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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