

TracNav

- [JPFWiki - Welcome Page](#)

[Introduction...](#)

[Installing JPF...](#)

[User Guide...](#)

[Developer Guide...](#)

[Projects...](#)

- [Summer Projects](#)
- [External Projects](#)
- [Change\(B\)log](#)

[About...](#)

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

Latest JPF News

04/23/2012	JPF student proposals accepted for GSoC 2012 announced - Congratulations to the students
03/26/2012	GSoC Student Applications period is open until April 6. Please submit your proposal at JPF GSoC page
03/16/2012	JPF has been accepted as mentoring org. for GSoC 2012. Visit our ideas page
10/14/2011	A hands-on JPF tutorial will be held on Nov 7th at Lawrence, Kansas co-located with ASE 2011
05/26/2011	JPF Workshop is co-located with ASE 2011, Lawrence, Kansas - Submit papers on your work
03/25/2011	JPF student proposals accepted for GSoC 2011 announced - Congratulations to the students
03/18/2011	JPF has been accepted as mentoring org. for GSoC 2011. Visit our ideas page
11/30/2010	JPF version 6 released - update your jpf-core
09/20/2010	ASE 2010 Tutorial on Automated Component-Based Verification Slides
08/02/2010	summer project presentations set for 08/13/2010 - see summer summit event page
04/29/2010	Selected summer projects announced
02/14/2010	ISSTA 2010 Tutorial on Automated Testing with Java PathFinder announced

02/12/2010	Call for Google Summer of Code 2010 project proposals out - visit our Soc page
01/30/2010	JPF Google group replaces old mailing lists
01/12/2010	Fujitsu press announcement released about using and extending Symbolic PathFinder (projects/jpf-symbc) for comprehensive testing of Java web applications
09/02/2009	JPF server on 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?](#) -- how did we get here

• [Support](#) -- who supports this project

• [People?](#) -- who does or did contribute

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

• [Future Plans?](#) -- where do we want to go

Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. and its subsidiaries in the U.S. and other countries