# Table of Contents

- TracNav
  - Introduction... 3
  - Installing JPF... 3
  - User Guide... 3
  - Developer Guide... 3
  - Modules... 3
  - About... 3
- Latest JPF News 3
- Welcome to the JPF Wiki 4
JPF Workshop 2017 will be co-located with ASE 2017 in Champaign, IL. Please consider submitting a paper.

JPF got accepted for GSoC 2017. Please visit our ideas page, and let us know if you have a topic in mind.

The JPF team is applying to the GSoC program for 2017. To learn more, please visit the JPF/GSoC page.

JPF Workshop 2016 will be co-located with FSE 2016 in Seattle, WA, on November 18, 2016. Please consider submitting a paper.

JPF student proposals accepted for GSoC 2016 announced - Congratulations to the students!

JPF got accepted for GSoC 2016. Please visit our ideas page, and let us know if you would like to propose a project.

JPF Workshop 2015 Accepted Papers are announced. Please visit ASE 2015 for registration, date and venue information.

JPF Workshop 2014 Accepted Papers. Please visit SOAR Lab for registration, date and venue information.

JPF Workshop 2013 Accepted Papers. Please note JPF Workshop 2013 website is down due to the shutdown, please visit ASE 2013 for registration, date and venue information.

JPF Workshop 2013 will be co-located with ASE 2013 Please submit papers.

JPF student proposals accepted for GSoC 2013 announced - Congratulations to the students!
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/08/2013</td>
<td>The show is on - JPF got accepted for GSoC 2013. Please visit the GSoC project ideas page or let us know about your own project suggestions.</td>
</tr>
<tr>
<td>06/07/2012</td>
<td>JPF Workshop 2012 is co-located with FSE 2012, November 11 and 12. We solicit submissions for the JPF Workshop 2012.</td>
</tr>
<tr>
<td>04/23/2012</td>
<td>JPF student proposals accepted for GSoC 2012 announced - Congratulations to the students!</td>
</tr>
<tr>
<td>03/26/2012</td>
<td>GSoC Student Applications period is open until April 6. Please submit your proposal at JPF GSoC page.</td>
</tr>
<tr>
<td>03/16/2012</td>
<td>JPF has been accepted as mentoring org. for GSoC 2012. Visit our ideas page.</td>
</tr>
<tr>
<td>10/14/2011</td>
<td>A hands-on JPF tutorial will be held on Nov 7th at Lawrence, Kansas co-located with ASE 2011.</td>
</tr>
<tr>
<td>05/26/2011</td>
<td>JPF Workshop is co-located with ASE 2011, Lawrence, Kansas - Submit papers on your work.</td>
</tr>
<tr>
<td>03/25/2011</td>
<td>JPF student proposals accepted for GSoC 2011 announced - Congratulations to the students!</td>
</tr>
<tr>
<td>03/18/2011</td>
<td>JPF has been accepted as mentoring org. for GSoC 2011. Visit our ideas page.</td>
</tr>
<tr>
<td>08/02/2010</td>
<td>summer project presentations set for 08/13/2010 - see summer summit event page.</td>
</tr>
<tr>
<td>04/29/2010</td>
<td>Selected summer projects announced</td>
</tr>
<tr>
<td>02/14/2010</td>
<td>ISSTA 2010 Tutorial on Automated Testing with Java PathFinder announced.</td>
</tr>
<tr>
<td>02/12/2010</td>
<td>Call for Google Summer of Code 2010 project proposals out - visit our SoC page.</td>
</tr>
<tr>
<td>01/30/2010</td>
<td>JPF Google group replaces old mailing lists.</td>
</tr>
<tr>
<td>01/12/2010</td>
<td>Fujitsu press announcement released about using and extending Symbolic PathFinder (projects/jpf-symbc) for comprehensive testing of Java web applications.</td>
</tr>
<tr>
<td>09/02/2009</td>
<td>JPF server on <a href="http://babelfish.arc.nasa.gov/trac/id">http://babelfish.arc.nasa.gov/trac/id</a> goes live, featuring the JPFWiki and separate Mercurial repositories for JPF core and extension projects.</td>
</tr>
<tr>
<td>07/22/2009</td>
<td>JPF wins the 2009 &quot;Outstanding Technology Development Award&quot; of the Federal Laboratory Consortium (FLC), Far West Division.</td>
</tr>
</tbody>
</table>

**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 apart 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