TracNav

- JPFWiki - Welcome Page

  Introduction...

  Installing JPF...

  User Guide...

  Developer Guide...

  Modules...

  - Summer Projects
  - External Projects
  - Change(B)log

About...

  - Events
  - Presentations
  - Papers
  - FAQ
  - History?
  - Support
  - Playground
  - Table of Context

Latest JPF News

<table>
<thead>
<tr>
<th>Date</th>
<th>News</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/01/2017</td>
<td>JPF Workshop 2017 will be co-located with ASE 2017 in Champaign, IL. Please consider submitting a paper.</td>
</tr>
<tr>
<td>02/27/2017</td>
<td>JPF got accepted for GSoC 2017. Please visit our ideas page, and let us know if you have a topic in mind.</td>
</tr>
<tr>
<td>19/01/2017</td>
<td>The JPF team is applying to the GSoC program for 2017. To learn more, please visit the JPF/GSoC page.</td>
</tr>
<tr>
<td>06/01/2016</td>
<td>JPF Workshop 2016 will be co-located with FSE 2016 in Seattle, WA, on November 18, 2016. Please consider submitting a paper.</td>
</tr>
<tr>
<td>04/22/2016</td>
<td>JPF student proposals accepted for GSoC 2016 announced - Congratulations to the students!</td>
</tr>
<tr>
<td>02/29/2016</td>
<td>JPF got accepted for GSoC 2016. Please visit our ideas page, and let us know if you would like to propose a project.</td>
</tr>
<tr>
<td>17/08/2015</td>
<td>JPF Workshop 2015 Accepted Papers are announced. Please visit ASE 2015 for registration, date and venue information.</td>
</tr>
<tr>
<td>10/03/2014</td>
<td>JPF Workshop 2014 Accepted Papers. Please visit SOAR Lab for registration, date and venue information.</td>
</tr>
<tr>
<td>10/01/2013</td>
<td>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.</td>
</tr>
<tr>
<td>06/20/2013</td>
<td>JPF Workshop 2013 will be co-located with ASE 2013 Please submit papers.</td>
</tr>
<tr>
<td>05/27/2013</td>
<td>JPF student proposals accepted for GSoC 2013 announced - Congratulations to the students!</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