

Project Suggestions

Here are some suggestions for some interesting ZooKeeper projects. For more information, please inquire on the http://hadoop.apache.org/zookeeper/mailling_lists.html#Developers. Also, please update and add to these lists.

1. [Modularize the Atomic Broadcast Protocol](#)
2. [Documentation Projects](#)
3. [Test Projects](#)
4. [Research Projects](#)
5. [Tool Investigations](#)
6. [Random Ideas](#)

Documentation Projects

Rough estimates are given in hours. These estimates assume an existing understanding of ZooKeeper.

Description	Estimate	Links
write java client API documentation	many	
write c client API documentation	many	
write server documentation	many	
write client documentation	many	
write recipe documentation	many	

Test Projects

Rough estimates are given in hours. These estimates assume an existing understanding of ZooKeeper.

Description	Estimate	Links
write Junit test cases that run the ZooKeeper examples	16	

Research Projects

Here are some research project ideas, engineering ideas for new participants, and areas where domain experts from other fields might add a lot of value by bringing their perspective into the ZooKeeper discussion.

1. [Partitioned ZooKeeper](#)

Tool Investigations

We are always looking for open source testing tools that add value to our development and build process. Here are some that need to be investigated.

Description	Links
evaluate concurrency test tools	PathFinder , ConTest , CheckUncontendedLock , MultithreadedTC
evaluate Fortify	Fortify Tools
evaluate NCSS, a source code metrics suite	JavaNCSS
evaluate Java !PathFinder, a software model checker	JavaPathFinder
evaluate SA4J, a structural dependency analysis	SA4J
evaluate JDepend, generates design quality metrics	JDepend
evaluate Dependency Finder, generates design quality metrics and dependency graphs	DepFind
evaluate Classycle, finds class and package cyclic dependencies	Classycle
evaluate XRadars, an extensible code report tool	XRadars
evaluate Crap4j, combines cyclomatic complexity and code coverage	Crap4j
evaluate Eclipse TPTP, a test and performance tools platform	TPTP
evaluate test automation frameworks	STAF

Random Ideas

Description	Estimate	Links
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