Apache Lucene

22nd Sept 2010: Harmony passes 100% of Lucene core tests with Lucene trunk.

Additionally all contrib modules and their tests pass, except the 'remote' contrib.

How to

- 1 Ruild Lucene
 - a. Checkout lucene trunk from subversion: svn co http://svn.apache.org/repos/asf/lucene/dev/trunk
 - b. Change to the lucene directory
 - c. Ensure JAVA_HOME points to harmony. Harmony needs to be at least r999725.
 - d. Compile lucene: ant -Dbuild.compiler=extJavac
 - 2. Run tests
 - e. ant test-core -Dbuild.compiler=extJavac

Contrib modules

All of the contrib modules except 'remote' are also functional. For example, to build the xml-query-parser:

1. Change to the contrib/xml-query-parser directory 2. Compile: ant -Dbuild.compiler=extJavac 3. Run tests: ant test -Dbuild.compiler=extJavac

Limitations

- 1. Lucene currently does not have Harmony-specific support for the unmap hack in MMapDirectory.
 - a. FSDirectory.open will return SimpleFSDirectory on Windows always, even 64-bit.
- 2. Because Harmony uses ICU for Unicode support, it implements a newer version of Unicode (5.2) than other Java implementations.
 - 1. If your index was built with another implementation, rebuild your index with Harmony to ensure queries will match.
 - 2. Alternatively, you can use Lucene's ICU analysis module (modules/analysis/icu) which does not rely on the JRE's Unicode support for text analysis.