

GCJ x86 and SH-4 Initiative

Overview

We have an existing product built on a java JDK 1.4 code base. We need a native compilation of this product targeted for Fedora Linux on x86 and ST Linux on SH-4. The project will be implemented in two iterations: Fedora Linux followed by ST Linux.

The existing Java product depends upon quite a few 3rd party libraries such as Jetty, log4j and Bouncy Castle. The application is also multi-threaded.

Goal

Our goal is to find a developer or team of developers that can support the process of compiling our existing java code base to the target platforms. The person/team will be responsible for modifying the backend GCJ/Classpath code to eliminate any existing issues (bugs) or issues identified during the porting process. Intimate knowledge of the GCJ/Classpath backend code and architecture is a must.

Technical Requirements

1. Must compile existing JDK 1.4 java code base.
2. Must compile 3rd party jar files containing .class files without source code.
3. Must support multi-threading.
4. Must support HTTP, HTTPS and TCP including full java.net functionality.
5. Must be optimized/tuned for disk IO, performance and memory consumption. Configuration and customization of the garbage collector may also be required.
6. Must consume < 16 MB RAM.
7. Need not support JNI.
8. Need not support AWT or Swing.

Timeframe

Iteration	Completion Date
Fedora/x86	8/15/06
ST/SH-4	9/15/06

Terms

The required work will be performed on a consulting basis and can be performed remotely. The person/team will need to interact with our development team to gain an understanding of our product and to suggest any changes to the product that might be required to enable this effort.

Interested parties should reply to gcj@swarmcast.com with a description of GCJ experience and country of residence (required). Specific terms will be provided for qualified candidates.

Inquiries from commercial entities are welcome.