STRAW Release 1.0 Installation instructions

Preliminaries
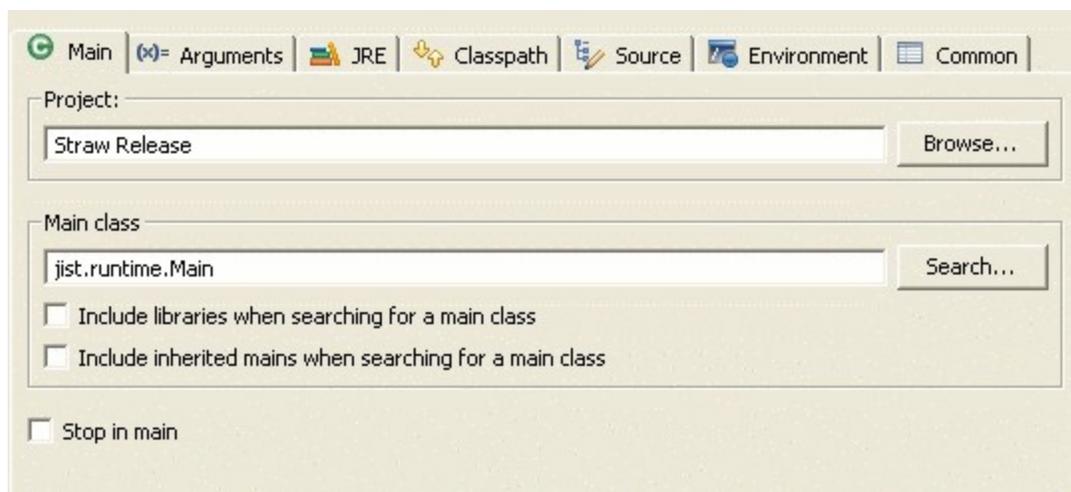1) It is highly recommended that you download and install the Eclipse IDE at www.eclipse.org.
2) Download the JiST/SWANS code from http://jist.ece.cornell.edu.
3) Download the STRAW package.
4) Download TMRS from http://www.sumitbirla.com/software/bin/tmrs-0.2.0.tar.gz. This software is necessary to convert the US Census Bureau's TIGER maps into a format that is simpler to parse and much more compact. This happens to be the only format STRAW currently supports.

STRAW Installation
1) In the JiST `src` directory, unpack `straw.tar.gz`.
2) Apply the four patches: `Rewriter.patch` in `/jist/runtime Constants.patch` in `/jist/swans`, and `Location.patch` and `Util.patch` in `jist/swans/misc`.
    1. **Eclipse IDE**: Right-click each patch's associated .java file and select "Apply Patch..." Select the appropriate .patch file, use the default settings and click Finish. Repeat for each patch.
    2. **Command line**: run `patch [filename].java [filename].patch` for each pair.
3) Download and convert USCB TIGER files from http://www.census.gov/geo/www/tiger/index.html using TMRS, or download pre-parsed files located on our resources page.
4) If you download the Suffolk county map files and place the `suffolk` directory in your `src` directory, you can run JiST/SWANS with the sample configuration and driver files. Otherwise, edit the `segmentFile`, `streetFile` and `shapeFile` properties of the `StreetMobilityDemo.xml` file to correspond to the locations of your map files. When ready, run:

```
jist driver.GenericDriver StreetMobilityDemo.xml
```

Alternatively, you can run use the Eclipse IDE and its powerful tools to run and debug your code for JiST/SWANS. Below are the important configurations for doing so. Note that you will want to change the Project field to contain your local version of JiST/SWANS with STRAW.

Name: | Streets Boston AODV clean

⊕ Main | (x)= Arguments | 📙 JRE | 🔧 Classpath | 📝 Source | 🔳 Environment | ▤ Common

Program arguments:

```
driver.GenericDriver StreetMobilityDemo.xml
```

Variables...

VM arguments:

```
-server -Xmx500000000
```

Variables...

Working directory:

```
${workspace_loc:Straw Release/src}
```

☐ Use default working directory

Workspace... | File System... | Variables...