

**CS 683 Emerging Technologies
Fall Semester, 2004
Doc 28 Hibernate & Glorp Install
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Installing Hibernate

Download Page: <http://www.hibernate.org/6.html>

Click on the **Download from SourceForge** link on that page

Download hibernate-2.1.6 and hibernate-extensions-2.1.2

Uncompress the files, no compilation is needed

To run Hibernate you need a

- database,
- jdbc drivers
- set your class path

Database

You can use any database you wish

Free databases:

- PostgreSQL, <http://www.postgresql.org/>
- MySQL, <http://dev.mysql.com/>

JDBC Drivers

MySQL <http://dev.mysql.com/downloads/connector/j/3.0.html>
MySQL Connector/J

PostgreSQL <http://jdbc.postgresql.org/>

Setting Your Classpath

The following jar files need to be in your classpath

- Jdbc driver jar
- hibernate-2.1/hibernate2.jar
- hibernate-2.1/lib/*.jar (all 30 jar files)

Optional jar files

- hibernate-extensions-2.1.2/hibern8ide/hibern8ide.jar
- hibernate-extensions-2.1.2/lib/*.jar (5 jar files)
- hibernate-extensions-2.1.2/tools/hibernate-tools.jar
- hibernate-extensions-2.1.2/tools/lib/*.jar (2 jar files)

The following files need to be edited and placed in a directory that is in your classpath

- hibernate-2.1/etc/hibernate.properties
- hibernate-2.1/etc/log4j.properties

Running Hibernate

It is a bit difficult to run Hibernate by hand due to the jar files

Ant

For those that know Ant for an example see

- [hibernate-2.1/build.xml](#)

Eclipse

No plugins are needed to run Hibernate programs

Useful Free Eclipse plugins

- XMLBuddy <http://xmlbuddy.com/>
 - Helps edit mapping xml file
- Hiberclipse, <http://hiberclipse.sourceforge.net/>
 - Generates mapping files from database info
 - Generates tables from mapping files
 - Runs class2hbm, hbm2java, ddl2hbm
- Hibernate Synchronizer, <http://www.binamics.com/hibernatesync/>
 - Similar to Hiberclipse
 - Code generation more sophisticated

Problem with Properties Files

On my machine not being loaded

```
public class Main {
    public static void main(String[] args) throws Exception {
        loadProperties();
        etc.
    }

    public static void loadProperties() throws IOException {
        Properties all = new Properties(System.getProperties());
        all.load(propertyStream("hibernate.properties"));
        all.load(propertyStream("log4j.properties"));
        System.setProperties(all);
    }
}
```

Glorp

Latest Version

Go to the CINCOM public repository, load in this order:

- GlorpVWPort package
- Glorp bundle
- GlorpTest bundle

Preview version

The VisualWorks installation contains a earlier version

Load in the following order:

- VISUALWORKS/preview/GlorpVWPort.pcl
- VISUALWORKS/preview/Glorp.pcl
- VISUALWORKS/preview/GlorpTest.pcl

PostgreSQL connection is already in VW image

MySQL connection is available from CINCOM store, but not highly reliable