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Install Oracle JRE

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Quick Install

To run Oracle Java in your experiment after accepting the license, edit `setup.sh` to include

```
if [[ $(arch) != arm* ]]; then
    wget --no-cookies --no-check-certificate --header "Cookie: gpw_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://
download.oracle.com/otn-pub/java/jdk/7u55-b13/jre-7u55-linux-x64.tar.gz"
    mkdir -p /usr/portage/distfiles/
    chown root:portage /usr/portage/distfiles/
    chmod 775 /usr/portage/distfiles/
    mv jre-7u55-linux-x64.tar.gz /usr/portage/distfiles/
    echo "=dev-java/oracle-jre-bin-1.7.0.55 Oracle-BCLA-JavaSE" >> /etc/portage/package.license
    emerge oracle-jre-bin
    java-config --set-system-vm oracle-jre-bin-1.7
fi
```

Manual Download and Installation

Oracle JDK is fetch restricted in the package manager, which means it requires a manual download. This tutorial shows you how to install Oracle JRE in `setup.sh`. As of the writing of this article, the current JRE version is 1.7.0.55. If you run the command `emerge -a oracle-jre-bin` on Gentoo, the package manager asks you to accept the license and download the tarball to a folder:

```
[ebuild  N F  ] dev-java/oracle-jre-bin-1.7.0.55  USE="-X -alsa -fontconfig -jce -nsplugin -pax_kernel"

Fetch instructions for dev-java/oracle-jre-bin-1.7.0.55:
 * Please download 'jre-7u55-linux-x64.tar.gz' from:
 * 'http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261.html'
 * and move it to '/usr/portage/distfiles'

The following license changes are necessary to proceed:
 (see "package.license" in the portage(5) man page for more details)
# required by dev-java/oracle-jre-bin (argument)
=dev-java/oracle-jre-bin-1.7.0.55 Oracle-BCLA-JavaSE

Use --autounmask-write to write changes to config files (honoring
CONFIG_PROTECT). Carefully examine the list of proposed changes,
paying special attention to mask or keyword changes that may expose
experimental or unstable packages.
```

To obtain the Linux JRE tarball and include it with your experiment package:

1. navigate to the Java Downloads page
2. search for 'jre-7u55-linux-x64.tar.gz'
3. select the 'Accept License Agreement' radio option
4. download 'jre-7u55-linux-x64.tar.gz' into your experiment package folder

To accept the Oracle license in the package manager, add the following line to your `setup.sh` :

```
echo "=dev-java/oracle-jre-bin-1.7.0.55 Oracle-BCLA-JavaSE" >> /etc/portage/package.license
```

Note that the JRE is already installed on ARM boards. In summary, the installation procedure with jre-7u55-linux-x64.tar.gz placed in the benchmark package is

```
if [[ $(arch) != arm* ]]; then
    mkdir -p /usr/portage/distfiles/
    cp jre-7u55-linux-x64.tar.gz /usr/portage/distfiles/
    echo "=dev-java/oracle-jre-bin-1.7.0.55 Oracle-BCLA-JavaSE" >> /etc/portage/package.license
    emerge oracle-jre-bin
    java-config --set-system-vm oracle-jre-bin-1.7
fi
```

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