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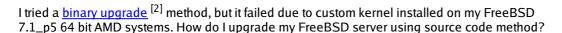
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### **Upgrade FreeBSD 7.x to 7.2 Stable Release**

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The procedure for doing a source code based update is described below:

### Step # 1: Get updated source code

**WARNING!** These examples may crash your computer if not executed properly. Make a backup of your system, Sql and configuration before you do this.

You need to use <u>cvsup command</u> [3] to get latest source code.

- # cp /usr/share/examples/cvsup/standard-supfile /root/supfile # vi /root/supfile
- Set host as follows:

host=cvsup1.us.FreeBSD.org

CVSup servers for <u>FreeBSD are running</u> [4] at the various sites around the world. Finally, update cvs tag to 7.2:

release=cvs tag=RELENG\_7\_2

Save and close the file. Get updated source tree, enter:

# cd /usr/src
# csup /root/supfile

Open /usr/src/UPDATING and read important information regarding upgrade procedure including known issues, bugs and workaround.

# vi /usr/src/UPDATING

#### Step # 2: Build new compiler and related tools

First compiles the new compiler and a few related tools, then uses the new compiler to compile the rest of the system.

- # cd /usr/src/
  # make buildworld
- Step # 3: Build and install new kernel

Now, you have latest compiler and other tools, just build kernel:

# make buildkernel
# make installkernel

You can also specify kernel custom name using KERNCONF. If your kernel config file name is onetouch, enter:

- # make buildkernel KERNCONF=onetouch
- # make installkernel KERNCONF=onetouch

Finally, you need to reboot system and boot into a single user mode using boot -s from the loader prompt:

```
# shutdown -r now
```

#### Step # 4: Install the base system 7.2

First, mount the system:

```
# mount -a -t ufs
```

To install some system configuration files that are required by the new base system, enter:

```
# mergemaster -p
```

Accept the changes as promoted as per your configuration. Finally, install the base system:

```
# cd /usr/src
# make installworld
```

Finally, merge your 7.2 configuration files, enter:

```
# mergemaster -i
```

Now, you have FreeBSD 7.2 new kernel and base system installed. Just reboot the server:

```
# shutdown -r now
```

Make sure everything is working:

## **Update FreeBSD Applications**

Now you are running new FreeBSD 7.2 stable environment. All you have to do is upgrade installed <u>ports tree using portsnap</u> [6], enter:

```
# portsnap fetch update
```

List outdated applications, enter:

```
# pkg_version -vl '<'
```

Finally, check all ports, update as necessary (portmaster is not part of base system, you need to grab it from /usr/ports-mgmt/portmaster):

```
# portmaster -a
```

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- [2] binary upgrade: http://www.cyberciti.biz/tips/freebsd-72-review-improved-virtualization.html#binaryUpgrade
- [3] cvsup command: http://www.cyberciti.biz/faq/freebsd-cvsup-update-system-applications/
- [4] FreeBSD are running: http://www.freebsd.org/doc/handbook/cvsup.html
- [5] sockstat -6: http://www.cyberciti.biz/tips/freebsd-lists-open-internet-unix-domain-sockets.html
- [6] ports tree using portsnap: http://www.cyberciti.biz/tips/howto-keep-freebsd-system-upto-date.html

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