

# How to make X listen on port 6000

<http://gentoo.linuxhowtos.org/Misc/morespeedup.pdf>

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## Speeding up the boot process (next generation)

The idea is to preload the useful files into kernel buffer cache before they are needed. Since I/O can happen parallel to the other CPU intensive tasks during bootup, this leads to faster bootup and faster startup time for your chosen applications. Other projects use static lists to preload the files.

This tutorial uses an automated process of generating the "useful" prefetch database.

This is `/etc/init.d/my-readahead`.

Code:

```
#!/sbin/runscript
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# $Header: $

depend() {
    before syslog-ng
}

start() {
    ebegin "Starting readahead ROYALE"
    cat /etc/conf.d/* > /dev/null 2>&1 &
    cat /usr/lib/gconv/gconv-modules.cache > /dev/null 2>&1 &
    cat /usr/share/icons/gnome/icon-theme.cache > /dev/null 2>&1
    &
    cat /usr/share/icons/hicolor/icon-theme.cache > /dev/null 2>&1
    &
    cat `cat /etc/conf.d/sofile-list.load` > /dev/null 2>&1 &
    if [ -f /forcesampler ];then
        /usr/sbin/sample-init-process /etc/conf.d/sofile-list.load &
        rm -f /forcesampler
    fi
    eend 0
}

stop() {
    eend 0
}
```

The executable shell script `/usr/sbin/sample-init-process`:

Code:

```
#!/bin/bash
final_db="$1"

# total number of lists to keep in /etc/conf.d/
total_to_keep=4

# total number of samples to make in /forcesampler boot.
# It will take twice this amount of seconds to finish sampling.
total_samples_per_boot=200

# touch empty file if not there
[ ! -f "$final_db" ] && touch "$final_db"

let i=0
while [ "$i" -ne "$total_to_keep" ] ; do
    if [ ! -f "$final_db$i" ] ; then
        break;
    else
        j=$((i+1))
        if [ "$j" = "$total_to_keep" ] ;then
            i=0
        fi
    fi
done
```

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And then do this:

Code:

```
chmod +x /usr/sbin/sample-init-process
rc-update add my-readahead default
touch /forcesampler
```

What you have done is asked my-readahead to create a sampler process which samples what files (fonts, binaries, libraries, configs) are in use, every second. It collects 200 samples (will be busy for at least 10 minutes after boot) and keeps updating the database with a list of useful files.

Once you boot after this the first time, you will probably see a slow down because its collecting samples for use on the next and subsequent boots. Use your system as you normally would. Open firefox, gaim, OO or whatever. Once the sampler script has finished ('ps -aef|grep sample-init-process' will tell you if its running), reboot. Now this and all subsequent boots will be much faster.

If it takes too long for the sample-init-process to finish, reduce the total\_samples\_per\_boot variable in the sampler script to 100 and try again by touching /forcesampler.

In future, whenever you feel like updating the prefetch database, just 'touch /forcesampler' and database will be updated on next reboot.

based on <http://forums.gentoo.org/viewtopic-t-478491.html>, some script modifications done.  
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