

# How to make X listen on port 6000

<http://gentoo.linuxhowtos.org/ntp/ntp.pdf>

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ntp is the Network Time Protocol suite.

## Installing ntpd

First, make sure ntp/ntpdate are installed. The package is by default installed on Mandrake Linux and Redhat. If you do not have ntp installed you will find packages on your distributions install-cd(s).

On Gentoo Linux, install by typing---

```
emerge ntp
```

## Configuration files for running ntp as daemon

ntpd manpage

### Client Setup

Now, edit the following files:

```
--- /etc/ntp.conf
```

The only important thing is that the line contains server some.thing.org.

Example:

```
---server ntp.uio.nodriftfile /etc/ntp/driftbroadcastdelay 0.008authenticate no---
```

Make sure you add ntpd as a boot (init) service.

Gentoo Linux: ``rc-update add ntpd default` , `/etc/init.d/ntpd start``

### (LAN) Server setup

To run a ntp server to sync the clocks on your lan, edit

```
--- /etc/ntp.conf
```

Example:

```
---server fartein.ifi.uio.no preferserver ntp.uio.noserver ntp.eunet.no
```

```
fudge 10.0.0.50 stratum 10
```

```
driftfile /etc/ntp/driftbroadcastdelay 0.008
```

```
authenticate no---
```

fudge tells the server to pass on the correct time to the given network interface. stratum is the level of time servers, 10 being the lowest. You only need a higher number if you will be acting as a public internet timeserver with fast bandwidth.

It makes sence to add a few servers. Select the best as prefer

Make sure you add ntpd as a boot (init) service.

Gentoo Linux: ``rc-update add ntpd default` , `/etc/init.d/ntpd start``

### Firewalls

ntp uses port 123, both UDP and TCP. Make sure this port is not blocked by a firewall.

If you are using iptables, you can open this port with

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```
--- $IPTABLES -A INPUT -j ACCEPT -p tcp --dport 123
```

## **Known valid and working ntp servers**

server	adress	Location	ntp	ipv6	viagenie	qc	cal	PV6	ONLY	clock	via	netserver
--------	--------	----------	-----	------	----------	----	-----	-----	------	-------	-----	-----------

far	tein	.ifi	.uio	.no	Norway	server	ntp	.uio	.no	Norway	server	server
-----	------	------	------	-----	--------	--------	-----	------	-----	--------	--------	--------

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## Server List

\* <http://www.eecis.udel.edu/~mills/ntp/servers.html>

## Setting the clock at boot or using cron

A good idea is not to run the ntpd daemon on clients as it uses about 1,7 MB memory, unless you are a server or have a box with a broken clock. Many boxes clocks do drift along on their own, a check every hour or day is generally a good idea.

### rdate

rdate is a simple 3 kB tool for syncing the system clock to a server. It's options are `-p` to print the date on the given server, `-s` to set the system clock according to it (must be done as root) and `-u` to use the UDP protocol. Example:

```
`rdate -p sntp.lth.se`
```

rdate manual page

### clockspeed

clockspeed is a very small tool for setting the clock and is, for clients, a much better alternative than installing the 4+ MB ntp package.

\* [clockspeed-0.62.tar.gz](#) 28K

## cron & ntp

You can simply add ntpdate as a cron job every now and then:

```
--- echo 'ntpdate -b server.dot.com' > /etc/cron.hourly/time.cron--- chmod a+x /etc/cron.hourly/time.cron
```

Most distributions come with a cron. dcron and Vixie cron are nice.

## Gentoo & ntp-client

You can set the clock using ntp at boot (without starting the daemon) on Gentoo Linux by editing:

```
--- /etc/conf.d/ntp-client
```

The file should contain:

```
---NTPDATE_CMD="ntpdate"NTPDATE_OPTS="-b your.server.here"---
```

Then add ntp-client to the services started at boot:

```
--- rc-update add ntp-client default
```

You can check what services are started at boot with `rc-status`.`

Page source:

\* [t2t:ntp.t2t.tar.bz2](#)

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```
var google_ad_client = "pub-4309123515655559";
var google_alternate_color = "CCCCCC"; var google_ad_width = 160; var google_ad_height
= 600; var google_ad_format = "160x600_as"; var google_ad_channel ="3097575257"; var
google_color_border = "000000"; var google_color_text = "000000"; var google_color_bg =
"CCCCCC"; var google_color_link = "0000FF"; var google_color_url = "008000";
```

other Ads

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[www.nachoben.com](http://www.nachoben.com)

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URLs to short

links like

<http://turl.org/2>

[turl.org](http://turl.org)

.

Reverse DNS lookup

Find out which hostname(s)

resolve to a

given IP or other hostnames for the server

[www.reversednslookup.org](http://www.reversednslookup.org)

## New Packages

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```
bodyloaded(); document.getElementById("fulltextsearch").onkeypress=chk;
```