

Here is how to update LINUX server tzdata by hand.

On my servers I ran:

```
ergo:~ # zdump -v /etc/localtime | grep 2007
```

If it says April 1st as the date of change the system has not been upgraded.
This system has not been upgraded:

```
/etc/localtime Sun Apr 1 07:59:59 2007 UTC = Sun Apr 1 01:59:59 2007 CST isdst=0 gmtoff=-21600
/etc/localtime Sun Apr 1 08:00:00 2007 UTC = Sun Apr 1 03:00:00 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Oct 28 06:59:59 2007 UTC = Sun Oct 28 01:59:59 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Oct 28 07:00:00 2007 UTC = Sun Oct 28 01:00:00 2007 CST isdst=0 gmtoff=-21600
```

It should say something like:

```
/etc/localtime Sun Mar 11 07:59:59 2007 UTC = Sun Mar 11 01:59:59 2007 CST isdst=0 gmtoff=-21600
/etc/localtime Sun Mar 11 08:00:00 2007 UTC = Sun Mar 11 03:00:00 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Nov 4 06:59:59 2007 UTC = Sun Nov 4 01:59:59 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Nov 4 07:00:00 2007 UTC = Sun Nov 4 01:00:00 2007 CST isdst=0 gmtoff=-21600
```

To upgrade your older systems by hand you can compile the tzdata files from the source.
Go to <http://www.twinsun.com/tz/tz-link.htm> and download tzdata2007p.tar.gz.

```
ergo:~ # mkdir /tmp/tz
ergo:~ # cd /tmp/tz
ergo:~ # wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
```

specifically:

```
ergo:~ # wget 'ftp://elsie.nci.nih.gov/pub/tzcode2007c.tar.gz'
ergo:~ # wget 'ftp://elsie.nci.nih.gov/pub/tzdata2007c.tar.gz'
```

Un-tar these files into the /tmp/tz directory:

```
ergo:~ # gzip -dc tzcode*.tar.gz | tar xvf -
ergo:~ # gzip -dc tzdata*.tar.gz | tar xvf -
```

Now compile the timezone data files. Execute:

```
ergo:~ # zic -d /tmp/tz/zoneinfo northamerica
```

Then copy the CST6CDT file to /usr/share/zoneinfo/ directory and
America/Chicago file into /usr/share/zoneinfo/America directory.

```
ergo:~ # cp /tmp/tz/zoneinfo/CST6CDT /usr/share/zoneinfo/
ergo:~ # cp /tmp/tz/zoneinfo/America/Chicago /usr/share/zoneinfo/America
```

Test to confirm these files are good:

```
ergo:~ # zdump -v /usr/share/zoneinfo/CST6CDT | grep 2007
/usr/share/zoneinfo/CST6CDT Sun Mar 11 07:59:59 2007 UTC = Sun Mar 11 01:59:59 2007 CST isdst=0 gmtoff=-21600
/usr/share/zoneinfo/CST6CDT Sun Mar 11 08:00:00 2007 UTC = Sun Mar 11 03:00:00 2007 CDT isdst=1 gmtoff=-18000
/usr/share/zoneinfo/CST6CDT Sun Nov 4 06:59:59 2007 UTC = Sun Nov 4 01:59:59 2007 CDT isdst=1 gmtoff=-18000
/usr/share/zoneinfo/CST6CDT Sun Nov 4 07:00:00 2007 UTC = Sun Nov 4 01:00:00 2007 CST isdst=0 gmtoff=-21600
```

```
ergo:~ # zdump -v /usr/share/zoneinfo/America/Chicago | grep 2007
/usr/share/zoneinfo/America/Chicago Sun Mar 11 07:59:59 2007 UTC = Sun Mar 11 01:59:59 2007 CST isdst=0 gmtoff=-21600
/usr/share/zoneinfo/America/Chicago Sun Mar 11 08:00:00 2007 UTC = Sun Mar 11 03:00:00 2007 CDT isdst=1 gmtoff=-18000
/usr/share/zoneinfo/America/Chicago Sun Nov 4 06:59:59 2007 UTC = Sun Nov 4 01:59:59 2007 CDT isdst=1 gmtoff=-18000
/usr/share/zoneinfo/America/Chicago Sun Nov 4 07:00:00 2007 UTC = Sun Nov 4 01:00:00 2007 CST isdst=0 gmtoff=-21600
```

Last, link the localtime file:

```
ergo:~ # ln -fs /usr/share/zoneinfo/CST6CDT /etc/localtime
ergo:~ # zdump -v /etc/localtime | grep 2007
```

expected output should look like this:

```
/etc/localtime Sun Mar 11 07:59:59 2007 UTC = Sun Mar 11 01:59:59 2007 CST isdst=0 gmtoff=-21600
/etc/localtime Sun Mar 11 08:00:00 2007 UTC = Sun Mar 11 03:00:00 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Nov 4 06:59:59 2007 UTC = Sun Nov 4 01:59:59 2007 CDT isdst=1 gmtoff=-18000
/etc/localtime Sun Nov 4 07:00:00 2007 UTC = Sun Nov 4 01:00:00 2007 CST isdst=0 gmtoff=-21600
```

This is sufficient to correct the DST event for system time. JAVA and other library patches may also need attention.