

## Using RCS

This short tutorial shows you how to use of RCS to keep track of changes in configuration files. To get RCS and its related tools, install rcs.

Note: Similarities between CVS and RCS will cause any \$Header:

```
r/www/www.gentoo.org/raw_cvs/gentoo/xml/htdocs/news/en/gwn/20040216-newsletter.xml,v
Code 2004/02/17 01:53:48 carlos Exp $ or $Id: 20040216-newsletter.xml,v 1.1 2004/02/17
01:53:48 carlos Exp $ tags to be rewritten when you put files under revision control.
# cd /etc
# mkdir RCS
// Put make.conf under revision control
# ci -i make.conf
RCS/make.conf,v >-- make.conf
enter description, terminated with single '.' or end of file:
NOTE: This is NOT the log message!
>> make.conf - custom settings for portage
>> .
initial revision: 1.1
done
// The file is now in RCS, so put it back in /etc for reading
# co make.conf
```

Notice that make.conf is now under revision control and is read-only. To edit the file, you need to perform the following steps:

### Code Listing 2: Editing a file under revision control

```
// Checkout the file with locking enabled
# co -l make.conf
RCS/make.conf,v --> make.conf
revision 1.1 (locked)
done
// Edit the file
# ${EDITOR} make.conf
// Check the file back in and unlock it.
# ci -u make.conf
RCS/make.conf,v >-- make.conf
new revision: 1.2; previous revision: 1.1
enter log message, terminated with single '.' or end of file:
>> changed DISTDIR to use a drive with more space
>> . done
```

This can be a tedious process so it's better to put all the commands in a script to do it automatically.

### Code Listing 3: Example script for revision control

```
#!/bin/sh
# Script to edit files under revision control
```

```
[ [ -f "RCS/$1,v" ] ] && co -l $1  
${EDITOR} $1  
[ [ -f "RCS/$1,v" ] ] && ci -u $1
```

For more information on using RCS see man 1 rcsintro.

From <http://www.gentoo.org/news/en/gwn/20040216-newsletter.xml>