CVS QUICK REFERENCE CARD

Overview

CVS is a version control system aimed at keeping an history and managing multiple people working at the same time on a same source hierarchy. CVS keeps a single copy of the master sources, called the *repository*. Each person works on one's own copy of the repository, called the *sandbox*. CVS allows one to control the changes between its sandbox and the global repository.

Synopsis

 $\verb"cvs" [cvsopt] \ cmd \ [cmdopt] \ files...$

cvsopt.... options controlling the overall CVS program cmd.... particular action to perform on the repository cmdopt..... options controlling the specific command files..... files to act on, or specific arguments to cmd. If you do not specify any files, CVS will normally recurse into subdirectories and apply the command to each CVS files encountered. Warning: the same option can mean different things depending on whether it is in the cvsopt or cvscmd group.

$Overall\ CVS\ options$

This list describes all possible *cvsopt* available

This list describes an possible <i>cosopt</i> available.
-b bindir use bindir as location of RCS files
same as the RCSBIN environment variable
-d cvsdir use cvsdir as location of repository
same as the CVSROOT environment variable
-e editor use editor to enter log information
same as the CVSEDITOR or EDITOR variable
-fdo not read the /.cvsrc startup file
-Hdisplay a summary of all commands available
-Н cmd display usage information about cmd
-1 do not log the command in history
-q be quiet, suppress informational messages
-Q be really quiet, output only serious problems
-n do not change any files, only simulate
-rmake new working file read-only
same as if CVSREAD variable is set
-ttrace program execution, useful with $-n$ to explore
-vdisplay version and copyright information
-wmake new working file read-write (default)
-xencrypt communication between client & server

-z $n \dots$ use n as compression level for transferring files

CVS command summary

This list summarizes all possible cmd available. Only cmd ticked with \triangleright are detailed here.

▷ add add new files or directories admin.....control/administrate the repository ▷ checkout get a new sandbox from the repository ▷ commit.....apply changes, additions, deletions ▷ diff...show differences between sandbox & repository export prepare copies for off-site shipment ▶ history show report on commands executed ▷ import.....incorporate a set of off-site updates init.....initialize a new repository ▷ log......show stored log information rdiff.....prepare a collection of diffs as patch file release cancel a checkout, abandoning changes ▷ remove.....remove files from the source tree rtag.....specify a symbolic tag for a revision ▷ status show current status of files ▷ tag.....specify a symbolic tag from a sandbox ▷ update.....get the changes from the repository

Common command options

This list describes all possible cmdopt available, common for all cmd, except history. Not all commands support all options, only when it makes sense. The \circ symbol specifies a sticky option (CVS remembers the option on subsequent commands).

option on subsequent commands).

o -Ddate.... the most recent revision no later than date

1 month ago, 6/29/97 08:20:00 PST,
yesterday, last Friday, 18:30 GMT...

-f..... use file even if it does not match tag or date
o-kb... set the file as binary (do not expand keywords)
o-kv.... retain keyword information
-1..... disable recursion in sub-directories
-n.... do not run program associated with cmd
-P... remove empty directories after checkout/update
-p... pipe files from the repository to standard output
o-r tag..... use the revision tag instead of head
use HEAD for the latest version available
or BASE for the file you last checked out

Checkout

cvs co [-ANPRcflnps] [-rrev|-Ddate] [-ddir] [-jrev1 [-jrev2]] [-kopt] module...

Obtain a new sandbox by getting files from *module* into the directory CVS creates. cvs co in an already checked out module is identical to cvs upd -d.

Commit

 $\verb"cvs ci [-nRlf] [-m', msg', -Ffile] [-rrev] files...$

Incorporate changes made locally in the sandbox back into the repository.

 -R force recursion when scanning for files

 -1 disable recursion in sub-directories

 -f force commit even if no change has been made

 -Ffile use content of file as log message

 -mmsg specify msg as log message

 -rev commit to specific revision rev

Update

cvs upd [-APdflRp] [-rtag|-D date] [-jrev] [-Iign] [-kopt] [-Wspec] files...

Update the sandbox with external changes made to the repository.

The cvs upd prints a status flag for each file:

U.......brought up to date with the repository

A......added locally but not yet commited

R.....removed locally but not yet commited

M.....modified locally or merged with the repository

C.....conflicting merge that needs manual resolution

a backup copy is made under .#file.version

?..ignored local file which does not exist in repository

Remove. cvs remove [-flR] files... Remove files or directories from repository. -f.....delete the file before removing it Addcvs add [-kkflaq] [-m', msq'] files... Add new files or directories to repository. -kkflaq.....use kflaq for RCS -m', msq'......use msq as the creation log**Differences** cvs diff [-lNR] [-rr1 [-rr2] | -Dd2 [-Dd1]] files...Show differences between sandbox and repository. -Dd1....d1 diff working file against date d1-Dd1 -Dd2 diff date d1 against date d2-rr1....diff working file against revision r1-rr1 -rr2...........diff revision r1 against revision r2-N include added/removed files Loqcvs log [-lRhtNb] [-rr1[;r2]] [-dd1[d2]] [-sstates][-wlogins] files... Show log information stored for some files. -R..... print name of RCS file only -h.....print header only -t.....print header and description only -N.....do not list tags -b list default branch revisions only -rrevs specify set of revisions to list -d dates specify set of dates to list -sstates specify set of states to list -wlogins...list only revisions checked in by users logins *Import* cvs import [-d] [-bbranch] [-Ifile...] rep vendor release Incorporate a new hierarchy of sources under CVS. rep......directory path, eventually creates it vendor.....tag used for the entire branch release tag used for the imported files -d....use file's last modification time for check-in time -bbranch....specify a branch branch other than 1.1.1

-Iname ignore file name for import

History cvs hist [-Tcoealw] [-mmodule] [opts] files... Show a report on CVS commands that you or others have executed on a particular file or directory in the source repository. Warning: uses options in ways conflicting with common meaning. -T report on all tags -c report on each commit -o report on checked-out modules -e report on everything -a....report data for all users -1 report on last modification only -w....report on the current directory only -mmod report on module mod -xtype... extract record type, a list of several letters: O checked-out A first added W deleted during an updated T rtagged M modified U copied from repository F released G merged with success C merged with conflict R removed -bstr up to module/file/path matching str -D*date*.....report since *date* -prep report for repository rep -uuser.....report for user user Status cvs status [-1RqQ] [-v] files... Display a brief report on the current status of files: latest version, version in working directory, whether the working version has been edited and, optionally, symbolic tags in the RCS file. -v display also RCS file symbolic tags cvs tag [-lRqQ] [-Fbd] [[-rtag | -Ddate] [-f]] tag files... Specify a symbolic tag for files in the repository. By default tag the revision that were last synchronized with

your working directory. Applied immediately to the

-r -D.....used to rename an already-existing tag

-f used with -r & -D, force the tag

-F move the tag if it already exists

-b.....apply the tag as a new branch

-d..... delete the tag instead of adding it

repository.

Keywords

Embedded strings \$keyword:...\$ in text files are updated with the current keyword value from CVS whenever you obtain a new revision.

Administrative files

Environment variables

Here is a list of environment variables that CVS uses. CVSROOT......pathname to the repository root CVSREAD....if set, co and upd will make files read-only CVSEDITOR.....program to use for commit log message EDITOR.....used if CVSEDITOR is not set

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