

ClearCase

Quick Reference

Release 4.0 and later

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cleartool Subcommands

annotate	Annotates lines of a text file with time stamps
annotate [-all -rm] [-nco] [-out <i>pname</i>] [-short -long -fmt <i>format[,hdr-format[,elide-format]]</i>] [-rmfmt <i>rm-format</i>] [-header] [-nda-ta -force] <i>pname</i> ...	
apropos (UNIX ONLY)	Extracts reference page summaries, glossary definitions
apropos <i>topic</i> ...	
apropos -glossary [<i>topic-args</i>]	
catcr	Displays a config record
catcr [-recurse -flat -union -check [-union] -makefile] [-select <i>do-leaf-pattern</i>] [-ci] [-type { f d l } ...] [-element_only] [-view_only] [-critical_only] [-name <i>tail-pattern</i>] [-zero] [-wd] [-nxname] [-long -short] <i>do-pname</i> ...	
catcs	Displays a config spec
catcs [-tag <i>view-tag</i>]	
cd	Changes the current working directory
cd [<i>dir-pname</i>]	
chactivity	Changes a UCM activity
chactivity [-comment <i>comment</i> -cfile <i>pname</i> -cquery -cquery -ncoment] { [-headline <i>headline activity-selector</i> ...] [-fset <i>src-activity-selector</i> -tset <i>dest-activity-selector</i> <i>version-pname[,...]</i>] }	
chbl	Changes a UCM baseline
chbl [-comment <i>comment</i> -cfile <i>comment-file-pname</i> -cquery -cquery -ncoment] { [-incremental -full] [-level <i>promotion-level</i>] } <i>baseline-selector</i> ...	
checkin	Creates a permanent new version of an element
checkin ci [-comment <i>comment</i> -cfile <i>comment-file-pname</i> -cquery -cquery -ncoment] [-nwarn] [-cr] [-ptime] [-keep -rm] [-from <i>source-pname</i>] [-identical] { -cact <i>activity-selector</i> ... <i>pname</i> ... }	
checkout	Creates a view-private, modifiable copy of a version
checkout co [-reserved -unreserved [-nmaster]] [-out <i>dest-pname</i> -nda-ta] [-ptime] [-branch <i>branch-pname</i> -version] [-nwarn] [-comment <i>comment</i> -cfile <i>comment-file-pname</i> -cquery -cquery -ncoment] [-query -nquery] <i>pname</i> ...	
checkvob	Finds and fixes problems with VOBs, hyperlinks, or global types
checkvob [-view <i>view-tag</i>] [-log <i>log-dir-pname</i>] [-fix [-force] [-ignore]] [-data] [-protections] [-debis] [-setup] { -pool -source } [-derived] [-cleartext] { <i>vob-stg-pname</i> <i>pname-in-vob</i> } [-lock] <i>file-pname</i> ... }	
checkvob -links [-to -from] [-hltype <i>hltype-selector</i>] [-force] [-pname] <i>object-selector</i> ...	
checkvob -global [-log <i>log-pname</i>] [-fix [-force]] [-acquire] [-protections] [-lock -unlock] { <i>vob-selector</i> <i>global-type-selector</i> }	

chevent Modifies a comment string in an event record

chevent [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-app-end** | **-ins-ert** | **-rep-lace**] { **-eve-nt** [**-inv-ob** *vob-selector*] *event-ID* ... | [**-pna-me**] *pname* ... | *object-selector* ... }

chflevel Raises the feature level of a VOB

chflevel [**-f-orce**] **-auto**

chflevel **-rep-lica** *feature-level replica-selector*

chflevel [**-f-orce**] [**-ove-rride**] **-fam-ily** *feature-level vob-selector*

chfolder Modifies a UCM folder

chfolder [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] { [**-tit-le** *title*] [**-to** *to-folder-selector*] } *folder-selector* ...

chmaster Transfers mastership of VOB-database object

chmaster [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] { *master-replica-selector object-selector* ... | *master-replica-selector* [**-pna-me**] *branch-or-element-pname* ... | **-def-ault** [**-pna-me**] *branch-pname* ... | **-def-ault** *brtype-selector* ... | **-all** [**-force** *old-replica-selector*] [**-l-ong**] *master-replica-selector* }

chpool Changes the storage pool to which an element is assigned

chpool [**-f-orce**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] *pool-selector pname* ...

chproject Modifies a UCM project

chproject [**-c-omment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] { [**-tit-le** *title*] [**-amo-dcomp** *component-selector*[,...]] [**-to** *to-folder-selector*] [**-reb-ase-level** *promotion-level*] [**-policy** *policy-keyword*[,...]] [**-npolicy** *policy-keyword*[,...]] [**-crm-enable** *ClearQuest-user-database-name* | **-ncr-menable**] } *project-selector* ...

chstream Modifies a UCM stream

chstream [**-c-omment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-tit-le** *title*] *stream-selector* ...

chtype Changes an element's type/renames a branch

chtype [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-f-orce**] *type-selector* { [**-pna-me**] *pname* ... | *object-selector* ... }

chview Changes the properties of a view

chview { [**-cac-hesize** *size*] [**-sha-reable_dos** | **-nsh-areable_dos**] [**-reado-nly** | **-readw-rite**] } { **-cvi-ew** | *view-tag* }

cptype Makes a copy of a type object

cptype [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-rep-lace**] *existing-type-selector new-type-selector*

deliver Delivers changes in a UCM development stream to the project's integration stream

deliver [**-stream** *from-stream-selector*] **-graphical**

deliver [**-stream** *from-stream-selector*] [**-to** *integration-view-tag*]
 [**-pre-view** [**-long** | **-short**]]
 [**-activities** *activity-selector*[,...]] [**-complete**] [**-merge** | **-ok**]
 [**-query** | **-abort** | **-qal**] [**-serial**] [**-force**]

deliver [**-stream** *from-stream-selector*] { **-cancel** | **-status** [**-long**] }

deliver [**-stream** *from-stream-selector*]
 { **-resume** [**-complete**] | **-complete** }
 [**-merge** | **-ok**] [**-query** | **-abort** | **-qal**] [**-serial**] [**-force**]

describe Describes an object

describe **-graphical** { *object-selector* | *pname* } ...

describe [**-local**] [**-long** | **-short** | **-fmt** *format-string*]
 [**-label** { *label-type-selector* [,...] | **-all** }]
 [**-attr** { *attr-type-selector* [,...] | **-all** }]
 [**-hlink** { *hlink-type-selector* [,...] | **-all** }]
 { [**-view**] [**-version** *version-selector* | **-ancestor**]
 [**-hlink** { *hlink-type-selector* [,...] | **-all** }]
 [**-predecessor**] [**-pname**] *pname* ...
 | **-type** *type-selector* ...
 | **-cact** | *object-selector* ... }

diff Compares files or versions of an element

diff **-graphical** [**-tiny**] [**-hstack** | **-vstack**] [**-predecessor**]
 [**-options** *pass-through-opts*] *pname* ...

diff [**-serial_format** | **-diff_format** | **-columns** *n*]
 [**-options** *pass-through-opts*] [**-predecessor**] *pname* ...

(UNIX ONLY) **diff** [**-tiny** | **-window**] [**-serial_format** | **-diff_format**
 | **-columns** *n*] [**-options** *pass-through-opts*] [**-predecessor**]
pname ...

diffbl Compares UCM baselines or streams

diffbl [**-activities**] [**-versions**] [**-first_only**]
 { *baseline-selector1* | *stream-selector1* }
 { *baseline-selector2* | *stream-selector2* }

diffcr Compares configuration records

diffcr [**-recurse** | **-flat**] [**-select** *do-leaf-pattern*] [**-ci**]
 [**-type** { **f** | **d** | **l** } ...] [**-element_only**] [**-view_only**]
 [**-critical_only**] [**-name** *tail-pattern*] [**-wd**] [**-nxname**]
 [**-long** | **-short**] *do-pname-1 do-pname-2*

dospace Reports on VOB disk space used for shared DOs

dospace [**-update**] [**-since** *date-time*] [**-before** *date-time*]
 [**-references** { **0,1,n** }] [**-top** *number* | **-all**] [**-size** *size*]
 [**-region** *network-region*] [**-pool** *pool-name*] *vob-tag* ...

dospace [**-update**] **-dump** [**-region** *network-region*] *vob-tag*...

dospace **-generate** [**-scrub** *days*] [*vob-tag* ...]

edcs Edits a config spec

edcs [**-tag** *view-tag*] [*file*]

edcs [*file*]

endview Deactivates a view

endview [**-server**] *view-tag*

file Displays the element type ClearCase would use for a file

file [**-invob** *pname*] [**-all**] *pname...*

find Selects objects from a directory hierarchy

find *pname ... selection-options action-options*

find [*pname...*] **-a ll** [**-vis ible** | **-nvi sible**] *selection-options action-options*

find **-avo bs** [**-vis ible** | **-nvi sible**] *selection-options action-options*

selection-options:

- nam e** *pattern*
- dep th** | **-nr ecurse** | **-d irectory**
- cvi ew**
- use r** *login-name*
- gro up** *group-name*
- typ e** { **f** | **d** | **I** } ...
- fol low**
- nxn ame**
- ele ment** *query*
- bra nch** *query*
- ver sion** *query*

action-options (at least one required, multiple allowed):

- pri nt**
- exe c** *command-invocation*
- ok** *command-invocation ...*

findmerge Finds files requiring a merge and performs merge

findm erge { *pname ...* | [*pname ...*] **-a ll** | **-avo bs** | *activity-selector ...*
-fcs ets }
{ **-fta g** *view-tag* | **-fve rsion** *version-selector* | **-fla test** }
[**-dep th** | **-nr ecurse** | **-d irectory**] [**-fol low**] [**-vis ible**]
[**-use r** *login-name*] [**-gro up** *group-name*] [**-typ e** { **f** | **d** | **fd** }]
[**-nam e** *pattern*] [**-ele ment** *query*]
[**-nze ro**] [**-nba ck**] [**-why not**] [**-log** *pname*]
[**-c omment** *comment* | **-cfi le** *comment-file-pname* | **-cq uery**
| **-cqe ach** | **-nc omment**]
[**-unr eserved**] [**-q uery** | **-ab ort** | **-qal l**] [**-ser ial**]
{ **-pri nt** [**-l ong** | **-s hort** | **-nxn ame**]
| **-mer ge** | **-okm erge** | **-g raphical** | **-gm erge** | **-okg merge**
| **-exe c** *command-invocation*
| **-ok** *command-invocation*
| **-co**
} ...

get Copies a version of a file element to a snapshot view

get **-to** *dest-pname pname*

getcache Displays cache information

getcache **-vie w** [**-a ll** | **-s hort**] [**-reset**] { **-cvi ew** | *view-tag* }

getcache **-vie w** **-hos t**

getcache **-vie w** **-sit e**

getcache **-mvfs** [**-s hort**]

getlog Displays log files

getlog **-g**raphical [**-hos**t *hostname* | **-cvi**ew | **-tag** *view-tag* | **-vob** *pname-in-vob*]

getlog [**-las**t [*#_lines*] | **-fu**ll | **-sin**ce *date-time* | **-aro**und *date-time* [*#_minutes*]] [**-hos**t *hostname* | **-cvi**ew | **-tag** *view-tag* | **-vob** *pname-in-vob*] { **-inq**uire | **-a**ll | *log-name ...* }

getlog **-inq**uire

help Displays help on **cleartool** command usage

help [*command-name*]

command-name **-h**elp

hostinfo Displays configuration data for ClearCase hosts

hostinfo [**-l**ong] [**-pro**PERTIES [**-ful**l]] [*hostname ...*]

hyperhelp (UNIX ONLY) Displays a help file

hyperhelp [*helpfile*] [**-display**]

hyperhelp **-version**

ln Creates a VOB hard link or VOB symbolic link

ln [**-s**link] [**-c**omment *comment* | **-cfi**le *comment-file-pname* | **-cq**uery | **-cqe**ach | **-nc**omment] [**-nc**o [**-f**orce]] *pname link-pname*

ln [**-s**link] [**-c**omment *comment* | **-cfi**le *comment-file-pname* | **-cq**uery | **-cqe**ach | **-nc**omment] [**-nc**o [**-f**orce]] *pname* [*pname ...*] *target-dir-pname*

lock Locks an object

lock [**-rep**lace] [**-nus**ers *login-name[,...]* | **-obs**olete] [**-c**omment *comment* | **-cfi**le *comment-file-pname* | **-cq**uery | **-cqe**ach | **-nc**omment] { [**-pna**me] *pname ...* | *object-selector ...* }

ls Lists VOB-resident and view-private objects

ls [**-r**ecurse | **-d**irectory] [**-l**ong | **-s**hort] [**-vob**_only | **-vie**w_only] [**-nxn**ame] [**-vis**ible] [*pname ...*]

lsactivity Lists information about UCM activities

lsactivity [**-s**hort | **-l**ong | **-fmt** *format-string* | **-anc**estor [**-fmt** *format-string*] [**-dep**th *depth*]] [**-inv**ob *vob-selector* | **-in** *stream-selector-name* | **-cac**t | [**-cac**t] **-vie**w *view-tag* | **-cvi**ew | *activity-selector ...*]

lsbl Lists information about a UCM baseline

lsbl [**-s**hort | **-l**ong | **-fmt** *format-string*] [**-tre**e] [**-lev**el *promotion-level*] [**-l**tl-**lev**el *promotion-level*] [**-gtl**-**lev**el *promotion-level*]] [**-str**eam *stream-selector* | **-com**ponent *component-selector*]

lsbl [**-s**hort | **-l**ong | **-fmt** *format-string*] [**-tre**e] [*baseline-selector ...*]

lsccheckout Lists element checkouts

(WINDOWS ONLY) **lsc**heckout **-g**raphical *pname*

lscheckout | **lsc**o [**-l**ong | **-s**hort | **-fmt** *format-string*] [**-cvi**ew] [**-brt**ype *branch-type-selector*] [**-me** | **-use**r *login-name*] [**-r**ecurse | **-d**irectory | **-a**ll | **-avo**bs] [**-are**plicas] [*pname ...*]

lsclients Lists clients for a license or registry server host

lsclients **-hos**t *hostname* [**-typ**e { **regi**stry | **lic**ense | **a**ll }] [**-s**hort | **-l**ong]

lscomp	Lists information for a UCM component
lscomp [-s hort -l ong -fmt <i>format-string</i> -tre e] [-inv ob <i>vob-selector</i> <i>component-selector</i> ...]	
lsdo	Lists derived objects
lsdo [-r ecurse] [-me] [-l ong -s hort -fmt <i>format-string</i>] [-zer o] [-sti me -sna me] [-nsh areable dos] [<i>pname</i> ...]	
lsfolder	Lists information about UCM folders
lsfolder [-s hort -l ong -fmt <i>format-string</i> -tre e [-fmt <i>format-string</i>] [-dep th <i>depth</i>] -anc estor [-fmt <i>format-string</i>] [-dep th <i>depth</i>]] [-inv ob <i>vob-selector</i> -in <i>folder-selector</i> -vie w <i>view-tag</i> -cvi ew <i>folder-selector</i> ...]	
lshistory	Lists the history of an element or other object
lshistory -g raphical [-nop references [[-min or] [-nco] [-sin ce <i>date-time</i>] [-use r <i>login-name</i>] [-bra nch <i>branch-type-selector</i>]]] [[-r ecurse -d irectory -a ll -avo bs] [-pna me] <i>pname</i> ... <i>object-selector</i> ...]	
lshistory [-l ong -s hort -fmt <i>format-string</i>] [-eve ntid] [-min or] [-nco] [-las t [<i>num-events</i>]] [-sin ce <i>date-time</i>] [-me -use r <i>login-name</i>] [-bra nch <i>branch-type-selector</i>] [[-r ecurse -d irectory -a ll -avo bs -local] [-pna me] <i>pname</i> ... <i>object-selector</i> ...]	
lslock	Lists locks
lslock [-local] [-l ong -s hort -fmt <i>format-string</i>] [-obs olete] [[-a ll] [-pna me] <i>pname</i> ... <i>object-selector</i> ...]	
lspool	Lists storage pools
lspool [-l ong -s hort -fmt <i>format-string</i>] [-obs olete] [-inv ob <i>vob-selector</i> <i>pool-selector</i> ...]	
lsprivate	Lists view-private objects
lsprivate [-tag <i>view-tag</i>] [-inv ob <i>vob-selector</i>] [-l ong -s hort] [-siz e] [-age] [-co] [-do] [-oth er]	
lsproject	Lists information about a UCM project
lsproject [-s hort -l ong -fmt <i>format-string</i> -tre e [-fmt <i>format-string</i>] [-dep th <i>depth</i>] -anc estor [-fmt <i>format-string</i>] [-dep th <i>depth</i>]] [-inv ob <i>vob-selector</i> -in <i>folder-selector</i> -vie w <i>view-tag</i> -cvi ew <i>project-selector</i> ...]	
lsregion	Lists ClearCase network regions
lsregion [-s hort -l ong] [<i>'region-tag-pattern'</i> ...]	
lsreplica	Lists VOB replicas
lsreplica [-l ong -s hort -fmt <i>format</i>] [-sib lings [-sib lings] -invob <i>vob-selector</i> <i>replica-selector</i> ...]	
lsstorage (WINDOWS ONLY)	Lists file-system locations for creating view and VOB storage directories
lsstorage [-s hort -l ong] [-vie w -vob] [-reg ion <i>network-region</i>] [-hos t <i>hostname</i>] [<i>storage-global-pname</i>]	

lsstream Lists information about UCM streams

lsstream [**-s hort** | **-l ong** | **-fmt** *format-string*]
[**-tre e** [**-fmt** *format-string*] [**-dep th** *depth*]]
[**-anc estor** [**-fmt** *format-string*] [**-dep th** *depth*]]
[**-inv ob** *vob-selector* | **-in** *project-selector*]
[**-vie w** *view-tag* | **-cvi ew** | *stream-selector ...*]

lstype Lists type objects

lstype [**-local**] [**-l ong** | **-s hort** | **-fmt** *format-string*] [**-obs olete**]
{ **-kin d** *type-kind* [**-inv ob** *vob-selector*] | *type-selector ...* }

lsview Lists view registry entries

lsview [**-s hort** | **-l ong**] [**-hos t** *hostname*]
[**-pro perties** [**-ful l**] | **-age**] [**-reg ion** *network-region*]
[**-cview** | *view-tag ...* | **-sto rage** *view-storage-dir-pname ...*]
[**-uid** *view-uuid*]

lsvob Lists VOB registry entries

lsvob **-g raphical** [**-reg ion** *network-region*]
lsvob [**-s hort** | **-l ong**] [**-hos t** *hostname*] [**-reg ion** *network-region*]
[*vob-tag ...* | **-sto rage** *vob-storage-dir-pname ...* | **-uid** *vob-uuid*]

lstree Lists the version tree of an element

lstree **-g raphical** [**-a ll**] [**-nme rge**] [**-nc o**] *pname ...*

(UNIX ONLY) **lstree** **-g raphical** [**-a ll**] [**-nme rge**] [**-nc o**]
[**-opt ions** *pass-through-opts*] *pname ...*

lstree [**-nr ecurse**] [**-s hort**] [**-a ll**] [**-mer ge**] [**-nc o**] [**-obs olete**]
[**-bra nch** *branch-pname*] *pname ...*

man Displays a ClearCase reference page

man [*command_name*]

(UNIX ONLY) **man** [**-g raphical**] [*command_name*]

merge Merges versions of an element

(UNIX ONLY) **merge** { **-out** *output-pname* | **-to** *contrib-&-result-pname* }
[**-g raphical** [**-tin y**]]
[[**-tin y** | **-win dow**] [**-ser ial_format** | **-dif f_format** | **-col umns** *n*]]
[**-bas e** *pname* | **-ins ert** | **-del ete**] [**-nda ta** | **-nar rows**] [**-rep lace**]
[**-q uery** | **-abo rt** | **-qal l**]
[**-c omment** *comment* | **-cfile** *comment-file-pname* | **-cq uery**]
[**-cqe ach** | **-nc omment**] [**-opt ions** *pass-through-options*]
{ **-ver sion** *contrib-version-selector ...* | *contrib-pname ...* }

(WINDOWS ONLY) **merge** { **-out** *output-pname* | **-to** *contrib-&-result-pname* }
[**-g raphical** [**-tin y**]] [**-ser ial_format** | **-dif f_format** | **-col umns** *n*]]
[**-bas e** *pname* | **-ins ert** | **-del ete**] [**-nda ta** | **-nar rows**] [**-rep lace**]
[**-q uery** | **-abo rt** | **-qal l**]
[**-c omment** *comment* | **-cfile** *comment-file-pname* | **-cq uery**]
[**-cqe ach** | **-nc omment**] [**-opt ions** *pass-through-options*]
{ **-ver sion** *contrib-version-selector ...* | *contrib-pname ...* }

mkactivity Creates a UCM activity

mkact ivity [**-c omment** *comment* | **-cfile** *pname* | **-cq** | **-cqe**]
[**-nc omment**] [**-hea dline** *headline*] [**-in** *stream-selector*] [**-nset**]
[**-force**] [*activity-selector ...*]

mkattr Attaches an attribute to an object

mkattr [**-rep-lace**] [**-r-ecurse**] [**-ver-sion** *version-selector*]
 [**-pna-me**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname*]
 [**-cq-uey** | **-cqe-ach** | **-nc-omment**]
 { *attribute-type-selector value* | **-def-ault** *attribute-type-selector* } *pname ...*

mkattr [**-rep-lace**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname*]
 [**-cq-uey** | **-cqe-ach** | **-nc-omment**]
 { *attribute-type-selector value* | **-def-ault** *attribute-type-selector* }
object-selector ...

mkattr [**-rep-lace**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname*]
 [**-cq-uey** | **-cqe-ach** | **-nc-omment**]
 [**-sel-ect** *do-leaf-pattern*] [**-ci**] [**-typ-e** { **f** | **d** } ...]
 [**-nam-e** *tail-pattern*] **-con-fig** *do-pname*
 { *attribute-type-selector value* | **-def-ault** *attribute-type-selector* }

mkatype Creates an attribute type object

mkatype [**-rep-lace**] [**-glo-bal** [**-acq-uire**] | **-ord-inary**]
 [**-vpe-lement** | **-vpb-ranch** | **-vpv-ersion**] [**-sha-red**]
 [**-vty-pe** { **integer** | **real** | **time** | **string** | **opaque** }]
 [[**-gt** *low-val* | **-ge** *low-val*] [**-lt** *high-val* | **-le** *high-val*]
 | **-enu-m** *value[,...]*]
 [**-def-ault** *default-val*]
 [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** |
 | **-cqe-ach** | **-nc-omment**] *attribute-type-selector ...*

mkbl Creates a UCM baseline

mkbl [**-c-omment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-nc-omment**]
 [**-vie-w** *view-tag*] [**-com-ponent** *component-selector[,...]*] | **-all**
 | **-act-ivities** *activity-selector[,...]*] [**-ide-ntical**]
 [**-nlabel** | **-inc-remental** | **-fu-ll**] *baseline-root-name*

mkbl [**-c-omment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-nc-omment**]
-imp-ort *label-type-selector ...*

mkbranch Creates a new branch in an element's version tree

mkbranch [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**]
 [**-cqe-ach** | **-nc-omment**] [**-nwa-rn**]
 [**-nco**] [**-ver-sion** *version-selector*] *branch-type-selector pname ...*

mkbrtype Creates a branch type object

mkbrtype [**-rep-lace**] [**-glo-bal** [**-acq-uire**] | **-ord-inary**] [**-pbr-anch**]
 [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** |
-cqe-ach | **-nc-omment**] *branch-type-selector ...*

mkcomp Creates a UCM component object

mkcomp [**-c-omment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-nc-omment**]
-root *dir-pname component-selector*

mkdir Creates a directory element

mkdir [**-nco**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname*]
 [**-cq-uey** | **-cqe-ach** | **-nc-omment**] *dir-pname ...*

mkelem Creates a file or directory element

mkelem [**-elt-ype** *element-type-name*] [**-nco** | **-ci** [**-pti-me**]] [**-master**]
 [**-nwa-rn**] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname*]
 [**-cq-uey** | **-cqe-ach** | **-nc-omment**] *element-pname ...*

mkeltype Creates an element type object

mkeltype [**-replace**] [**-global** [**-acquire**] | **-ordinary**]
-supertype *elem-type-selector* [**-manager** *mgr-name*]
[**-ptime**] [**-att**ype *attr-type-selector*[,...]]
[**-mer**getype { **auto** | **user** | **never** }]
[**-comment** *comment* | **-cfi**le *comment-file-pname* | **-cq**uery
| **-cqe**ach | **-nc**omment] *element-type-selector* ...

mkfolder Creates a folder for a UCM project

mkfolder [**-comment** *comment* | **-cfi**le *pname* | **-cq**uery | **-cqe**ach
| **-nc**omment] [**-title** *title*] **-in** *parent-folder-selector* [*folder-selector* ...]

mkhlink Attaches a hyperlink to an object

mkhlink [**-uni**dir] [**-tte**xt *to-text*] [**-fte**xt *from-text*]
[**-fp**name] [**-tp**name] [**-comment** *comment*
| **-cfi**le *comment-file-pname* | **-cq**uery | **-cqe**ach | **-nc**omment]
hlink-type-selector *from-obj-selector* [*to-obj-selector*]

mkhltype Creates a hyperlink type object

mkhltype [**-replace**] [**-global** [**-acquire**] | **-ordinary**]
[**-att**ype *attr-type-selector*[,...]] [**-sha**red]
[**-comment** *comment* | **-cfi**le *comment-file-pname* | **-cq**uery
| **-cqe**ach | **-nc**omment] *hlink-type-selector* ...

mklabel Attaches a label to a version

mklabel [**-replace**] [**-r**ecurse] [**-ver**sion *version-selector*]
[**-comment** *comment* | **-cfi**le *comment-file-pname* | **-cq**uery
| **-cqe**ach | **-nc**omment] *label-type-selector* *pname* ...

mklabel [**-replace**] [**-comment** *comment* | **-cfi**le *comment-file-pname*
| **-cq**uery | **-cqe**ach | **-nc**omment]
[**-sel**ect *do-leaf-pattern*] [**-ci**] [**-typ**e { **f** | **d** } ...]
[**-nam**e *tail-pattern*] **-con**fig *do-pname* *label-type-selector*

mklbtype Creates a label type object

mklbtype [**-replace**] [**-global** [**-acquire**] | **-ordinary**] [**-pbr**anch]
[**-sha**red] [**-comment** *comment* | **-cfi**le *comment-file-pname*
| **-cq**uery | **-cqe**ach | **-nc**omment] *label-type-selector* ...

mkpool Creates storage pools or changes scrubbing parameters

mkpool **-sou**rce [**-comment** *comment* | **-cfi**le *comment-file-pname*
| **-cq**uery | **-cqe**ach | **-nc**omment] *pool-selector* ...

(UNIX ONLY) **mkpool** **-sou**rce [**-ln** *pname*] [**-comment** *comment* | **-cfi**le
comment-file-pname | **-cq**uery | **-cqe**ach | **-nc**omment]
pool-selector ...

mkpool { **-der**ived | **-cle**artext }
[**-siz**e *max-kbytes* *reclaim-kbytes* [**-age** *hours*] [**-ale**rt *command*]]
[**-comment** *comment* | **-cfi**le *comment-file-pname* | **-cq**uery
| **-cqe**ach | **-nc**omment] *pool-selector* ...

(UNIX ONLY) **mkpool** { **-der**ived | **-cle**artext } [**-ln** *pname*]
[**-siz**e *max-kbytes* *reclaim-kbytes* [**-age** *hours*] [**-ale**rt *command*]]
[**-comment** *comment* | **-cfi**le *comment-file-pname* | **-cq**uery
| **-cqe**ach | **-nc**omment] *pool-selector* ...

mkpool **-upd**ate [**-siz**e *max-kbytes* *reclaim-kbytes*] [**-age** *hours*]
[**-ale**rt *command*] [**-comment** *comment* | **-cfi**le *comment-file-pname*
| **-cq**uery | **-cqe**ach | **-nc**omment] *pool-selector* ...

mkproject Creates a UCM project

mkproject [**-comment** *comment* | **-cfile** *pname* | **-cquery** | **-cqe-ach** | **-nc-omment**] [**-title** *title*] [**-mod-comp** *component-selector*[,...]] **-in** *folder-selector* [**-crm-enable** *ClearQuest-user-database-name*] [*project-selector* ...]

mkregion Registers a new ClearCase network region

mkregion **-tag** *region-tag* [**-comment** *tag-comment*] [**-replace**]

mkstream Creates a stream for a UCM project

mkstream [**-c** *comment* | **-cfile** *pname* | **-cq** | **-cqe** | **-nc**] [**-title** *title*] [**-integration**] [**-baseline** *baseline-selector*[,...]] **-in** *project-selector* [*stream-selector*...]

mktag Creates a view tag or VOB tag

mktag **-view** **-tag** *view-tag* [**-comment** *tag-comment*] [**-replace** | **-region** *network-region*] [**-nstart**] [**-host** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*] *view-storage-dir-pname*

(UNIX ONLY) mktag **-view** **-tag** *view-tag* [**-comment** *tag-comment*] [**-replace** | **-region** *network-region*] [**-nstart**] [**-nca-exported**] [**-host** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*] *view-storage-dir-pname*

mktag **-vob** **-tag** *vob-tag* [**-comment** *tag-comment*] [**-replace** | **-region** *network-region*] [**-options** *mount-options*] [**-public**] [**-password** *tag-registry-password*] [**-host** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*] *vob-storage-dir-pname*

(UNIX ONLY) mktag **-vob** **-tag** *vob-tag* [**-comment** *tag-comment*] [**-replace** | **-region** *network-region*] [**-options** *mount-options*] [**-public**] [**-password** *tag-registry-password*] [**-nca-exported**] [**-host** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*] *vob-storage-dir-pname*

mktrigger Attaches a trigger to an element

mktrigger [**-comment** *comment* | **-cfile** *comment-file-pname* | **-cquery** | **-cqe-ach** | **-nc-omment**] [**-recurse**] [**-inherit** | **-attach**] [**-force**] *trigger-type-selector* *pname* ...

mktrtype Creates a trigger type object

mktrtype **-element** [**-a-ll**] [**-rep-lace**]
{ **-pre-op** | **-pos-top** } *opkind*[,...] [**-nus-ers** *login-name*[,...]]
{ **-exe-c** *command*
| **-execu-nix** *command*
| **-execw-in** *command*
| **-mkl-abel** *label-type-selector*
| **-mka-ttr** *attribute-type-selector=value*
| **-mkh-link** *hlink-type-selector,to=pname*
| **-mkh-link** *hlink-type-selector,from=pname* } ...
[*restriction-list*]
[**-pri-nt**]
[**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** |
-cqe-ach | **-nc-omment**] *type-selector* ...

mktrtype **-type** [**-rep-lace**] { **-pre-op** | **-pos-top** } *opkind*[,...]
[**-nus-ers** *login-name*[,...]]
{ **-exe-c** *command*
| **-execu-nix** *command*
| **-execw-in** *command*
| **-mkl-abel** *label-type-selector*
| **-mka-ttr** *attribute-type-selector=value*
| **-mkh-link** *hlink-type-selector,to=pname*
| **-mkh-link** *hlink-type-selector,from=pname* } ...
inclusion-list [**-pri-nt**]
[**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** |
-cqe-ach | **-nc-omment**] *type-selector* ...

inclusion-list contains one or more of:

-att-ype *attr-type-selector*[,...]
-brt-ype *branch-type-selector*[,...]
-elt-ype *elem-type-selector*[,...]
-hlt-ype *hlink-type-selector*[,...]
-lbt-ype *label-type-selector*[,...]
-trt-ype *trigger-type-selector*[,...]

restriction-list contains one or more of:

-att-ype { *attr-type-selector*[,...] | **-a-ll** }
-brt-ype { *branch-type-selector*[,...] | **-a-ll** }
-elt-ype { *elem-type-selector*[,...] | **-a-ll** }
-hlt-ype { *hlink-type-selector*[,...] | **-a-ll** }
-lbt-ype { *label-type-selector*[,...] | **-a-ll** }
-trt-ype { *trigger-type-selector*[,...] | **-a-ll** }

mount Activates a VOB

mount [**-opt-ions** *mount-options*] *vob-tag*

(WINDOWS ONLY) **mount** [**-per-sistent**] [**-opt-ions** *mount-options*] *vob-tag*

mount **-a-ll**

(WINDOWS ONLY) **mount** [**-per-sistent**] **-a-ll**

mv Moves or renames an element or VOB link

mv | **move** [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] *pname target-pname*

mv | **move** [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] *pname* [*pname ...*] *target-dir-pname*

omake (WINDOWS ONLY) ClearCase build utility. See *Building Software with omake*

protect Changes the permissions or ownership of an object

protect [**-cho-wn** *login-name*] [**-chg-rp** *group-name*]
 [**-chm-od** *permissions*] [**-c-omment** *comment*]
 | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**]
 { [**-fil-e** | **-d-irectory**] [**-r-ecurse**]
 [**-pna-me**] *pname ...* | *object-selector ...* }

protectvob Changes the owner or groups of a VOB

protectvob [**-f-orce**] [**-cho-wn** *user*] [**-chg-rp** *group*]
 [**-add_group** *group[,...]*] [**-del-ete_group** *group[,...]*]
vob-storage-pname ...

pwd Prints the working directory

pwd

pwv Prints the working view

pwv [**-s-hort**] [**-wdv-iew** | **-set-view** | **-root**]

quit Ends the interactive **cleartool** session

q-uit

rebase Changes the configuration of a UCM stream

rebase [**-vie-w** *rebase-view-tag*] **-gr-aphical**

rebase [[**-vie-w** *rebase-view-tag*] [**-pre-view** [**-l-ong** | **-s-hort**]]
 { **-rec-ommended** | **-bas-eline** *baseline-selector[, ...]* | **-dba-seline**
baseline-selector[,...] } [**-com-plete**] [**-gm-erge** | **-ok**]
 [**-q-uey** | **-abo-rt** | **-qal-l**] [**-ser-ial**] [**-f-orce**]

rebase [**-vie-w** *rebase-view-tag*] { **-can-cel** | **-sta-tus** [**-l-ong**] }

rebase [**-vie-w** *rebase-view-tag*] { **-res-ume** [**-com-plete**] | **-com-plete**
 [**-gm-erge** | **-ok**] [**-q-uey** | **-abo-rt** | **-qal-l**] [**-ser-ial**] [**-f-orce**]

recoverview Recovers a view database

recoverview [**-f-orce**] { **-vob** *vob-identifier* | **-dir** *dir-identifier* }
 { **-tag** *view-tag* | *view-storage-dir-pname* }

recoverview **-syn-chronize** [**-vob** *pname-in-vob*]
 { **-tag** *view-tag* | *view-storage-dir-pname* }

reformatview Updates the format of a view database

reformatview [**-dum-p** | **-loa-d**] { **-tag** *view-tag* | *view-storage-dir-pname* }

reformatvob Updates the format of a VOB database

reformatvob [**-dum-p** | **-loa-d**] [**-rm**] [**-f-orce**]
 [**-hos-t** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*]
vob-storage-dir-pname

(UNIX ONLY) **reformatvob** [**-dum-p** | **-loa-d**] [**-rm**] [**-f-orce**]
 [**-to** *dumpfile-dir-pname*] [**-hos-t** *hostname* **-hpa-th** *local-pname*
-gpa-th *global-pname*] *vob-storage-dir-pname*

register Creates an entry in the VOB or view registry

reg-ister **-vob** [**-ucm-project**] [**-rep-lace**]
 [**-hos-t** *hostname* **-hpa-th** *local-pname* **-gpa-th** *global-pname*]
vob-storage-dir-pname

reg-ister **-vie-w** [**-rep-lace**] [**-hos-t** *hostname* **-hpa-th** *local-pname*
-gpa-th *global-pname*] *view-storage-dir-pname*

(WINDOWS ONLY) **reg-ister** **-vobsto-rage** [**-reg-ion** *network-region*]
storage-global-pname

(WINDOWS ONLY) **reg-ister** **-viewsto-rage** [**-reg-ion** *network-region*]
storage-global-pname

relocate Moves elements and directory trees from one VOB to another

relocate [**-force**] [**-qal-l**] [**-log** *log-pname*] [**-update**]
pname [*pname ...*] *target-dir-pname*

rename Renames a ClearCase object

rename [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] { *old-object-selector new-object-selector*
| **-generate** *old-object-selector* }

reqmaster Sets access controls for mastership requests or requests mastership of a branch

reqmaster **-acl** [**-edit** | **-set** *pname* | **-get**] *vob-selector*

reqmaster [**-comment** *comment* | **-cq-uey** | **-nc-omment**]
{ { **-enable** | **-dis-able** } *vob-selector*
| { **-den-y** | **-allow** } **-inst-ances** *branch-type-selector ...*
| { **-den-y** | **-allow** } *branch-pname ...* }

reqmaster [**-comment** *comment* | **-cq-uey** | **-nc-omment**]
[**-lis-t**] *branch-pname ...*

reserve Converts a checkout's status to **reserved**

res-erve [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] [**-cact**] *pname ...*

rmactivity Removes a UCM activity

rmact-ivity [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-nc-omment**] [**-f-orce**] *activity-selector ...*

rmattr Removes an attribute from an object

rmattr [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**]
{ [**-ver-sion** *version-selector*] [**-pna-me**]
attribute-type-selector pname ...
| *attribute-type-selector object-selector ...* }

rmb1 Removes a UCM baseline

rmb1 [**-comment** *comment* | **-cfi-le** *pname* | **-cq-uey** | **-cqe-ach**
| **-nc-omment**] [**-f-orce**] *baseline-selector ...*

rmbranch Removes a branch from an element's version tree

rmbranch [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] [**-f-orce**] *pname ...*

rmcomp Removes a UCM component

rmcomp [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] [**-f-orce**] *component-selector ...*

rmdo Removes a derived object from a VOB

rmdo *do-pname ...*

rmdo { **-a-ll** | **-zer-o** } [*pname ...*]

rmelem Removes an element from a VOB

rmelem [**-force**] [**-comment** *comment* | **-cfi-le** *comment-file-pname*
| **-cq-uey** | **-cqe-ach** | **-nc-omment**] *pname ...*

rmfolder Removes a UCM folder

rmfolder [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] [**-f-orce**] *folder-selector ...*

rmhlink Removes a hyperlink from an object

rmhlink [**-comment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] *hlink-selector ...*

rmlabel Removes a label from a version
rmlabel [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-ver-sion** *version-selector*] *label-type-selector pname ...*

rmmerge Removes a merge arrow from versions
rmmerge [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] *from-pname to-pname*

rmname Removes the name of an element or VOB symbolic link from a directory
rm-name [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-nco** [**-f-orce**]] *pname ...*

rmpool Removes a storage pool from a VOB
rmpool [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] *pool-selector ...*

rmproject Removes a UCM project
rmproject [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-nc-omment**] [**-f-orce**] *project-selector ...*

rmregion Unregisters a ClearCase network region
rmregion **-tag** *region-tag* [**-rma-ll** [**-pas-sword** *tag-registry-password*]]

rmstream Removes a UCM stream
rmstream [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-f-orce**] *stream-selector ...*

rmtag Removes a VOB- or view-tag from the tag registry
rmtag **-vie-w** [**-reg-ion** *network-region* | **-a-ll**] *view-tag ...*
rmtag **-vob** [**-reg-ion** *network-region* | **-a-ll**] [**-pas-sword** *tag-registry-password*] *vob-tag ...*

rmtrigger Removes a trigger from an element
rmtrigger [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] [**-nin-herit** | **-nat-tach**] [**-r-ecurse**] *trigger-type-selector pname ...*

rmtree Removes a type object from a VOB
rmtree [**-ign-ore**] [**-rma-ll** [**-f-orce**]] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] *type-selector ...*

rmver Removes a version from an element's version tree
rmver [**-f-orce**] [**-xbr-anch**] [**-xla-bel**] [**-xat-tr**] [**-xhl-ink**] [**-dat-a**] [**-ver-sion** *version-selector* | **-vra-nge** *low-version high-version*] [**-c-omment** *comment* | **-cfi-le** *comment-file-pname* | **-cq-uey** | **-cqe-ach** | **-nc-omment**] *pname ...*

rmview Removes a view storage directory
rmview [**-f-orce**] { **-tag** *view-tag* | *view-storage-dir-pname* }
rmview [**-f-orce**] { **-tag** *view-tag* | *view-storage-dir-pname* | *snapshot-view-pname* }

rmview [**-f-orce**] [**-vob** *vob-selector* | **-avo-bs** | **-a-ll**] **-uiid** *view-uuid*

rmvob Removes a VOB storage directory
rmvob [**-f-orce**] *vob-storage-dir-pname ...*

schedule Schedules jobs to be run one or more times

schedule [**-force**] [**-host hostname**] **-get**
 [**-schedule** | **-job job-id-or-name** | **-tasks** | **-acl**]

schedule [**-force**] [**-host hostname**] **-edit** [**-schedule** | **-acl**]

schedule [**-force**] [**-host hostname**] **-set**
 [**-schedule** | **-acl**] *defn-file-pname*

schedule [**-force**] [**-host hostname**]
 [**-delete** | **-run** | **-wait** | **-status**] *job-id-or-name*

setactivity Specifies the current UCM activity for your view

setactivity [**-comment comment** | **-cfi-file pname** | **-cq-ury**
 | **-nc-omment**] [**-view-w view-tag**] { **-none** | *activity-selector* }

setcache Sets cache sizes

setcache -view-w { **-default** | **-cac-hesize size** } { **-cvi-ew** | *view-tag* }

setcache -view-w -host-t { **-default** | **-cac-hesize size** }

setcache -view-w -site { **-default** | **-cac-hesize size** }
 [**-password registry-password**]

setcache -mvfs { **-reg-dnc cnt** | **-noe-ntdnc cnt** | **-dir-dnc cnt**
 | **-vob-free cnt** | **-cvp-free cnt** | **-rpc-handles cnt** } ...

setcs Sets the config spec of a view

setcs [**-tag view-tag**] { **-current** | **-default** | *pname* | **-stream** }

setplevel Changes the list of promotion levels in a UCM project VOB

setplevel [**-comment comment** | **-cfi-file comment-file-pname** | **-cq-ury**
 | **-nc-omment**] [**-inv-ob vob-selector**]
-default default-promotion-level promotion-level ...

setsite Sets or unsets site-wide properties in the ClearCase site config registry

setsite [**-password registry-password**] *property-name=value ...*

setsite [**-password registry-password**] *property-name= ...*

setview (UNIX ONLY) Creates a process that is set to a dynamic view

setview [**-log-in**] [**-exec cmd-invocation**] *view-tag*

shell Creates a subprocess to run a shell or other program

shell | **!** [*command* [*arg ...*]]

space Reports on VOB disk space usage

space { **-view-w** | **-vob** } [**-all**] [**-update**] [**-region network-region**]
 { **-host hostname** | *tag ...* }

space -directory pname ...

space { **-view-w** | **-vob** } **-generate** [**-scrub days**] [*tag ...*]

startview Starts or connects to a **view_server** process

startview *view-tag ...*

umount Deactivates a VOB

umount { *vob-tag* | **-all** }

uncheckout Cancels a checkout of an element

uncheckout | **unco** [**-keep** | **-rm**] [**-cact**] *pname ...*

unlock Unlocks an object

unlock [**-comment comment** | **-cfi-file comment-file-pname** | **-cq-ury**
 | **-cqe-ach** | **-nc-omment**] { [**-pname**] *pname ...* | *object-selector ...* }

unregister Removes a VOB or view from the object registry

unreg-ister -vob { **-uid** *uuid* | *vob-storage-dir-pname* }

unreg-ister -view { **-uid** *uuid* | *view-storage-dir-pname* }

(WINDOWS ONLY) **unreg-ister -vobsto-orage** [**-reg-ion** *network-region*]
storage-global-pname

(WINDOWS ONLY) **unreg-ister -viewsto-orage** [**-reg-ion** *network-region*]
storage-global-pname

unreserve Changes the status of a checkout to **unreserved**

unres-erve [**-vie-w** *view-storage-dir-pname*] [**-cact**]

[**-c-omment** *comment* | **-cfile** *comment-file-pname* | **-cq-uey**
| **-cqe-ach** | **-nc-omment**] *pname* ...

update Updates a snapshot view

update -g-raphical [*pname* ...]

update [**-print**] [**-f-orce**] [**-ove-rwrite** | **-nov-erwrite** | **-ren-ame**]
[**-cti-me** | **-pti-me**] [**-log** *pname*] [*pname* ...]

update -add-_loadrules [**-print**] [**-f-orce**]

[**-ove-rwrite** | **-nov-erwrite** | **-ren-ame**] [**-cti-me** | **-pti-me**]
[**-log** *pname*] *pname* [*pname* ...]

winkin Winks in a derived object

winkin [**-pri-nt**] [**-nov-erwrite**] [**-sib-lings** [**-adi-rs**]]

[**-out** *pname*] *do-pname* ...

winkin [**-pri-nt**] [**-nov-erwrite**] [**-r-ecurse** [**-adi-rs**]] [**-sel-ect**
do-leaf-pattern] [**-ci**] *do-pname* ...

Non-Command Reference Pages

Following are summaries of some reference pages that provide miscellaneous information about ClearCase.

comments Event records and comments

env_ccase ClearCase environment variables

errorlogs_ccase ClearCase error log files

events_ccase ClearCase operations and event records

fmt_ccase Format strings for **cleartool** command output

pathnames_ccase Pathname resolution and extended namespace

permissions Access permissions for **cleartool** commands

profile_ccase **cleartool** user profile

query_language ClearCase query language syntax and usage

type_object Prototype for data items stored in a VOB

version_selector ClearCase version selector syntax

wildcards_ccase Pattern-matching characters for pathnames

Date-Time Specification

The *date-time* argument is specified as:

date.time | *date* | *time* | **now**

where:

date := *day-of-week* | *long-date*

time := *h[h]:m[m][:s[s]][UTC [[+ | -]h[h][:m[m]]]]]*

day-of-week := **today** | **yesterday** | **Sunday** | ... | **Saturday** | **Sun** | ... | **Sat**

long-date := *d[d]-month[-[yy]yy]*

month := **January** | ... | **December** | **Jan** | ... | **Dec**

Specify *time* in 24-hour format, relative to the local time zone. If you omit the time, the default value is **00:00:00**. If you omit *date*, the default is **today**. If you omit the century, year, or a specific date, the most recent one is used. Specify **UTC** if you want ClearCase to resolve the time to the same moment in time regardless of time zone. Use the plus (+) or minus (-) operator to specify a positive or negative offset to the UTC time. If you specify **UTC** without hour or minute offsets, Greenwich Mean Time (GMT) is used. (Dates before January 1, 1970 Universal Coordinated Time (UTC) are invalid.)

Object Selectors

Object selectors specify non-file-system VOB objects (VOBs, types, pools, hyperlinks, replicas) with a single string of the form:

[*prefix*:]*name*[@*vob-selector*]

where:

<i>prefix</i>	Kind of object; optional if the context of the command implies the kind of object.
<i>name</i>	Name of the object.
@ <i>vob-selector</i>	VOB specifier; default value is usually the VOB containing the current working directory. Specify <i>vob-selector</i> in the form [vob:] <i>pname-in-vob</i> , where <i>pname-in-vob</i> can be <ul style="list-style-type: none"> • The VOB-tag (whether or not the VOB is mounted) • The pathname of any file-system object within the VOB (if the VOB is mounted)

ClearCase Query Language

A query reports names of elements, branches, versions, and/or VOB links. See the **query_language** reference page.

Query in Version-Selector

A version-selector query must be enclosed in braces {...}. It matches the most recent version on the specified branch. If no branch is specified, it matches a most recent version on any branch.

cleartool subcommand with cleartool describe -version \ -version option	'/main/{atype(QAlvl)}' util.c
config spec rule	.../rel2.1/{QAlvl==5}

Query in find and findmerge subcommands

find: - element , - branch , and - version options	cleartool find -avobs -version 'QAlvl==5' -print cleartool find . -ver \ 'created_by(ann) && htype(spec,<-)' -ok \ 'cleartool mklable -nc SPEC \ \$CLEARCASE_XPN'
findmerge: - element option	cleartool findmerge /vobs/src \ -element 'created_by(drp)' -merge

Query Primitives

Attribute with specified value on object	<i>attr-type compare-op value</i> <i>compare-op: == != < <= > >=</i>
Attribute with specified value on object or subobject	attr_sub(attr-type,compare-op,value)
Attribute on object	atype(attr-type)
Attribute on object or subobject	atype_sub(attr-type)
Object associated with branch of particular type	brtype(branch-type)
User who created object	created_by(login-name)
Creation time	created_since(date-time)

Element of particular type	eltype (<i>element-type</i>)
Has hyperlink of particular type	hltpe (<i>hlink-type</i>) hltpe (<i>hlink-type</i> , →) hltpe (<i>hlink-type</i> , ←)
Has particular version label	lbtype (<i>label-type</i>)
Version label on object or subobject	lbtype_sub (<i>label-type</i>)
Selects elements with merge arrow	merge (<i>from-location</i> , <i>to-location</i>)
Selects elements assigned to pool	pool (<i>pool-name</i>)
Selects elements with particular attached triggers	trtype (<i>trigger-type</i>)
Selects versions	version (<i>version-selector</i>)

Logical Operators

() ! < <= > >= = != &&	
Higher precedence	Lower precedence

Formatting Command Output with -fmt

A number of **cleartool** subcommands that list information take the **-fmt** option. See the **fmt_ccase** reference page for detailed information on **-fmt** option syntax.

Conversion Specification Syntax

`%[min][.max][MODIFIER [, ...]]keyletter`

Keyletters and Modifiers

%a	Attributes (comma-separated list of <i>attr=value</i> pairs)
%Sa	Value only (instead of <i>attr=value</i>)
%Na	Space-separated list (no commas or parentheses)
%[<i>attribute</i>]a	Display this attribute only
%c	Comment string from object's event record
%Nc	Comment string without trailing <NL>
%d	Date/time
%Nd	Date and time in numeric format
%Sd	Date only
%Vd	Day of week, date, and time
%Ad	Age in days
%MAd	Age in months
%BAd	Age as a bar graph (longer bar = more recent)
%OAd	Age as a bar graph (longer bar = older)
%e	Event kind (create version, destroy element, and so on)
%f	Information on checked-out version
%Rf	Checkout status (reserved or unreserved)
%Tf	View-tag of the view holding the checked-out element)
%[<i>text</i>]f	Text (displays <i>text</i> as a prefix to the version-id)
%h	Name of host at which the event originated
%i	Indent level (modifier: [<i>indent-level</i>])
%l ("el")	Labels (parenthesized, comma-separated list)
%Cl	Field width spec = maximum number of labels to display
%NI	Space-separated list (no commas or parentheses)
%m	Object kind (element, branch, version, and so on)
%Km	Object selector kind (for example, brtype or lbtype)

%n	Name of object
%Dn	Database identifier (DBID)
%En	Element name
%Ln	Leaf name
%On	Object identifier (OID)
%Sn	Short name
%Vn	Version-ID
%Xn	Extended name
%PVn	Predecessor's version-ID
%PSn	Predecessor's short name
 %[p]p	Value of property specified by <i>p</i> (see <i>Property Values</i>)
%o	Operation kind (checkin , mkelem , and so on)
 %[c]t	Starting column number
 %[c]Nt	At overflow, print newline then resume at starting column
 %[c]St	At overflow, print one space then next value
 %[c]Tt	At overflow, print a tab then next value
%u	User name
%Fu	User's full name
%Gu	User's group name
%Lu	<i>user-ID.group-ID</i>
%%	Percent sign

Property Values

ClearCase Variants:	
 %[name]p	Same as %n , including variants
 %[object_kind]p	Kind of object
 %[locked]	Lock status of the object
 %[version_predecessor]p	Version-ID of the predecessor version
 %[type]p	Name of version or element's type
 %[triggers]p	Trigger types attached to element
 %[triggers]Np	Suppresses parentheses and commas
 %[pool]p	Name of pool
 %[pool]Cp	Name of cleartext pool
 %[pool]Dp	Name of derived object pool
 %[pool]Sp	Name of source pool
 %[DO_kind]p	Kind of derived object
 %[DO_ref_count]p	Reference count for derived object
 %[slink_text]p	Target of symbolic link
 %[slink_text]Tp	Target of symbolic link after traversal
 %[type_scope]p	Object type's scope
 %[type_constraint]p	Constraint on type object
 %[trigger_kind]p	Kind of trigger type
 %[msdostext_mode]p	State of MS-DOS text mode setting
 %[group]p	Group name
 (WINDOWS ONLY) %[owner]p	Owner
 (UNIX ONLY) %[owner]Fp	Owner; optional F lists full name
UCM Variants:	
 %[mod_comps]p	Modifiable components
 %[def_rebase_level]p	Required promotion level
 %[rec_bls]p	Recommended baselines
 %[activities]p	Activities associated with stream
 %[project]p	The project the stream is part of
 %[found_bls]p	Foundation baselines
 %[views]p	Views attached to the stream
MultiSite Variants:	
 %[master]p	Name of mastering replica
 %[master]Op	OID of mastering replica
 %[reqmaster]p	Request for mastership status
 %[type_mastership]p	Kind of mastership of the type
 %[vob_replication]p	Replication status of VOB
 %[replica_name]p	Replica name of the VOB
 %[replica_host]p	Name of replica host

Escape Sequences

<code>\t</code>	tab
<code>\n</code>	newline
<code>\nnn</code>	octal character code
<code>'</code>	single-quote
<code>\\</code>	backslash

Field-Width Specifier Rules

A single number is interpreted as a minimum width (for example, `%8En`)

To supply only a maximum width, precede the number with a decimal point (`%10En`) or with a zero and decimal point (`%0.10En`).

To specify a constant display width, set the minimum and maximum widths to the same value (`%20.20c`).

Values shorter than the specified minimum width are right justified. A negative minimum width value (`%-20.20c`) left justifies short values.

Values longer than the specified maximum width are truncated from the right. A negative maximum width value (`%15.-15Sn`) truncates long values from the left.

A maximum width specifier has special meaning when used with `%CI`. For example, `%5CI` prints a version's first five labels only, followed by ...

Building Software with `clearmake`

The `clearmake` build tool is described in the `clearmake` reference page and the manual *Building Software with ClearCase*.

`clearmake` Command-Line Syntax

```
clearmake [-f makefile] ... [-ukinservwdpqUNR]
          [-J num] [-B file] [-C mode] [-V | -M] [-O | -T | -F]
          [-A BOS-file] ... [macro=value] ... [target-name] ...
```

`clearmake` {`-version` | `-VerAll`}

NOTE: The `-J` and `-B` options are available only on UNIX.

Command-Line Options

<code>-f makefile</code>	Specifies the makefile
<code>-u</code>	Unconditionally rebuilds all targets on command line
<code>-k</code>	Quits failed entry; continues on targets that don't depend on it
<code>-i</code>	Ignores error codes returned by commands
<code>-n</code>	No execution; lists scripts for targets that need rebuilding
<code>-s</code>	Silent mode; command lines are not displayed before execution
<code>-e</code>	Environment variables override macros in makefile
<code>-r</code>	Ignores built-in rules
<code>-v</code>	Verbose mode
<code>-w</code>	Prints working directory before and after execution of makefile
<code>-d</code>	Debug mode
<code>-p</code>	Lists all target descriptions and all macro definitions
<code>-q</code>	Evaluates targets, but do not run build scripts
<code>-U</code>	Unconditional build for goal targets, but not subtargets
<code>-N</code>	Disables default BOS file processing
<code>-R</code>	Examines sibling DOs when determining whether target is up to date
<code>-J num</code>	(UNIX ONLY) Sets maximum concurrency level
<code>-B file</code>	(UNIX ONLY) Specifies build hosts file

-C mode	Compatibility mode
-V	Disables winks from other views
-M	Checks makefile dependencies only
-O	Compares only names and versions
-T	Disables configuration lookup; rebuild using time stamps
-F	Like -T , but also suppresses CR creation
-A BOS-file	Adds to or replaces (combine with -N) default BOS files
-version	Prints version information about the clearmake executable
-VerAll	Prints version and library information about clearmake

Environment Variables

MAKEFLAGS	clearmake command options (no arguments)
CCASE_ABE_PN	(UNIX ONLY) Path for audited build executor
CCASE_AUDIT_TMPDIR	Temporary workspace
CCASE_BLD_HOSTS	(UNIX ONLY) Build hosts for parallel build
CCASE_BLD_NOWAIT	Turns off sleep-check cycle during a build
CCASE_BLD_UMASK	(UNIX ONLY) umask for newly created DOs
CCASE_BLD_VOBS	VOBs to be checked for locks during a build
CCASE_CONC	(UNIX ONLY) Concurrency level; overridden by -J
CCASE_DNVW_RETRY	Minutes to wait before retrying to contact an inaccessible view
CCASE_HOST_TYPE	(UNIX ONLY) Determines build hosts file used: .bldhost.\$CLEARCASE_BLD_HOST_TYPE
CCASE_MAKE_CFG_DIR	Full path of the clearmake config directory
CCASE_MAKE_COMPAT	Compatibility mode
CCASE_OPTS_SPECS	List of BOS files
CCASE_SHELL_FLAGS	Options passed to build script subshell
CCASE_SHELL_REQUIRED	Execute build scripts in program specified by SHELL macro
CCASE_VERBOSITY	0=default 1= -v 2= -d
CMAKE_PNAME_SEP	(WINDOWS ONLY) Separator for pathnames constructed by clearmake

Macros

\$*	Inference rule only; file name (no suffix) of inferred dependency
\$@	Full target name of current target
\$<	Inference rule only; file name of implicit dependency
\$?	Explicit makefile rule only; out-of-date dependencies list
\$%	Library target only; target object module in library
MAKE	Name of the make processor
MAKEFILE	Top-level makefile only; current or most recently parsed makefile
VPATH	List of directory search paths for targets

Build Options Specification (BOS) Files

macro assignment	<code>macro_name = string</code> <code>target-list := macro_name = string</code> <code>macro_name :sh= shell-command</code>
include file facility	<code>include BOS-file</code> <code>sinclude BOS-file</code>
special targets	<code>.DEPENDENCY_IGNORED_FOR_REUSE</code> <code>.INCREMENTAL_REPOSITORY_SIBLING</code> <code>.INCREMENTAL_TARGET</code> <code>.NO_CMP_NON_MF_DEPS</code> <code>.NO_CMP_SCRIPT</code> <code>.NO_CONFIG_REC</code> <code>.NO_DO_FOR_SIBLING</code> <code>.NO_WINK_IN</code> <code>.NOTPARALLEL (UNIX ONLY)</code> <code>.SIBLING_IGNORED_FOR_REUSE</code> <code>.SIBLINGS_AFFECT_REUSE</code>

Building Software with `omake`

The `omake` build tool, which is available only on Windows, is described in the `omake` reference page and the *ClearCase OMAKE Manual*.

`omake` Command-Line Syntax

```
omake [-f makefile ...] [-b builtins-file ...] [-akinservdphzADGM]  
[-x file] [-OLWT] [-EN | -EP | -EO] [-#1] [-#2] [-#4] [-#8]  
[macro=value] ... [target_name] ...
```

Command-Line Options

<code>-f makefile</code>	Specifies makefile
<code>-b file</code>	Specifies built-ins initialization file
<code>-a</code>	Unconditionally rebuilds all targets on command line
<code>-k</code>	Quits failed entry; continues on targets that don't depend on it
<code>-i</code>	Ignores error codes returned by commands
<code>-n</code>	No execution; lists scripts for targets that need rebuilding
<code>-s</code>	Silent mode; command lines are not displayed before execution
<code>-e</code>	Environment variables override macros in makefile
<code>-r</code>	Ignores built-in rules
<code>-v</code>	Verbose
<code>-d</code>	Debug
<code>-p</code>	Lists all target descriptions and all macro definitions
<code>-h</code>	Displays command-line syntax
<code>-z</code>	Does not examine MFLAGS macro for options
<code>-A</code>	Uses automatic dependencies
<code>-D</code>	Keeps directory in memory
<code>-G</code>	Restricts dependency checking to makefile dependencies
<code>-M</code>	Makes the makefile before reading it
<code>-x file</code>	Redirects error messages to <code>file</code>
<code>-O</code>	Compares only names and versions
<code>-L</code>	Disables configuration lookup and CR creation
<code>-W</code>	Disables winkin from other views
<code>-T</code>	Examines sibling DOs when determining whether target is up to date
<code>-EN</code>	Emulates NMAKE

-EP	Emulates PolyMake
-EO	No emulation
-#1	Read-time debugging mode
-#2	Warns about undefined macros
-#4	Warns about unrecognized makefile lines
-#8	Does not delete generated response and batch files

Dot Directives

.CASE_MACRO	Makes macro names case-sensitive
.CASE_TARGET	Makes target names case-sensitive
.DEBUG	Selects debugging options
.DEBUG_GRAPHICS	Uses line drawing characters during debugging
.DEBUG_PRINT	Prints a makefile summary to screen
.DEBUG_RUN	Displays run-time trace
.DEPENDENCY_IGNORED_FOR_REUSE	Ignores specified files when determining whether target is up to date
.ENV_OVERRIDE	EVs override makefile macros
.ENVMACROS	Makes macro definition of each EV
.INCLUDE	Includes specified files at this point in makefile
.INCREMENTAL_REPOSITORY_SIBLING	Specified files may contain incomplete config information, and should prevent omake from winking in the primary target
.INCREMENTAL_TARGET	Merges CRs incrementally for the listed targets
.KEEPDIR	Keeps directory in memory
.KEEPWORKING	Keeps working even if errors occur
.MACRO_CHAR	Sets the macro reference character
.MAKE_MAKEFILE	Makes each makefile before reading it
.MS_NMAKE	Emulates Microsoft NMAKE
.NOCMP_SCRIPT	Does not compare build scripts during configuration lookup
.NODO_FOR_SIBLING	Disables creation of a DO for any specified file if that file is created as a sibling DO
.NOWINK_IN	Restricts config lookup to current view
.OMAKE	Emulates omake
.POLY_MAKE	Emulates PolyMake
.REGEX_CHAR	Sets the regular expression escape character
.REGEX_WILD	Sets the regular expression wildcard character
.REJECT_RULES	Rejects inference rules
.RESPONSE.XXX	Controls response files
.RULE_CHAR	Sets inference rule character
.SHELL	Names the shell program and selects it
.SIBLING_IGNORED_FOR_REUSE	Ignores specified files when determining whether a target object is up to date
.SIBLINGS_AFFECT_REUSE	Examines sibling DOs when determining whether a target object in a VOB is up to date
.SUFFIXES	Selects and orders inference rules

Target Attributes

target [...] [*attribute* ...] : [*sources* ...]

attribute [...] : [*target* ...]

.ALWAYS	Always rebuilds named target
.CHAIN	Chains inference rules
.IGNORE	Ignores non-zero return status
.INFER	Forces inference rule check
.MAKE	Overrides -n , -q , and -t command-line options
.NOCMP_NON_MF_DEPS	For each specified target, dependencies not explicitly declared in the makefile are not used in configuration lookup
.NOCONFIG_REC	Uses time stamps for build avoidance and do not create CRs or DOs
.NODEFAULT	Target is not the default target
.PRECIOUS	Specifies that non-zero return status targets are not to be deleted
.RULE	Specifies that dependency line is an inference rule
.SILENT	Does not display executing shell lines

Getting Online Help

cleartool man <i>command</i>	Displays the reference page for <i>command</i>
<i>command</i> -help	Displays the syntax of <i>command</i>

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