ClearCase

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Release 4.0 and later

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cleartool Subcommands

annotate — Annotates lines of a text file with time stamps

ann·otate [**–a·ll** | **–rm**] [**–nco**] [**–out** *pname*]
[**–s·hort** | **–l·ong** | **–fmt** *format*[**,***hdr-format*[**,***elide-format*]]]
[**–rmf·mt** *rm-format*] [**–nhe·ader**] [**–nda·ta** | **–f·orce**] *pname ...*

apropos (UNIX ONLY) — Extracts reference page summaries, glossary definitions

apr·opos *topic ...*

apr·opos –glo·ssary [*topic-args*]

catcr — Displays a config record

catcr [**–r·ecurse** | **–fla·t** | **–uni·on** | **–che·ck** [**–uni·on**] | **–mak·efile**]
[**–sel·ect** *do-leaf-pattern*] [**–ci**] [**–typ·e** { **f** | **d** | **l** } ...]
[**–ele·ment_only**] [**–vie·w_only**] [**–cri·tical_only**] [**–nam·e** *tail-pattern*]
[**–zer·o**] [**–wd**] [**–nxn·ame**] [**–l·ong** | **–s·hort**] *do-pname ...*

catcs — Displays a config spec

catcs [**–tag** *view-tag*]

cd — Changes the current working directory

cd [*dir-pname*]

chactivity — Changes a UCM activity

chact·ivity [**–c·omment** *comment* | **–cfi·le** *pname* | **–cq·uery** | **–cqe·ach**
| **–nc·omment**] { [**–hea·dline** *headline activity-selector ...*]
| [**–fcs·et** *src-activity-selector* **–tcs·et** *dest-activity-selector*
version-pname[**,...**]] }

chbl — Changes a UCM baseline

chbl [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] { [**–inc·remental** | **–fu·ll**]
[**–level** *promotion-level*] } *baseline-selector ...*

checkin — Creates a permanent new version of an element

checkin | **ci** [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] [**–nwa·rn**] [**–cr**] [**–pti·me**] [**–kee·p** | **–rm**]
[**–fro·m** *source-pname*] [**–ide·ntical**]
{ **–cact** | *activity-selector ...* | *pname ...* }

checkout — Creates a view-private, modifiable copy of a version

checkout | **co** [**–res·erved** | **–unr·eserved** [**–nma·ster**]]
[**–out** *dest-pname* | **–nda·ta**] [**–pti·me**]
[**–bra·nch** *branch-pname* | **–ver·sion**] [**–nwa·rn**]
[**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] [**–q·uery** | **–nq·uery**] *pname ...*

checkvob — Finds and fixes problems with VOBs, hyperlinks, or global types

checkvob [**–vie·w** *view-tag*] [**–log** *log-dir-pname*] [**–fix** [**–f·orce**]
[**–ign·ore**]] [**–dat·a**] [**–pro·tections**] [**–deb·ris**] [**–set·up**]
{ **–poo·l** [**–sou·rce**] [**–der·ived**] [**–cle·artext**]
{ *vob-stg-pname* | *pname-in-vob* } | [**–loc·k**] *file-pname ...* }

checkvob –hli·nks [**–to** | **–fro·m**] [**–hlt·ype** *hltype-selector*]
[**–f·orce**] [**–pna·me**] *object-selector ...*

checkvob –glo·bal [**–log** *log-pname*] [**–fix** [**–f·orce**]]
[**–acq·uire**] [**–pro·tections**] [**–loc·k** | **–unl·ock**]
{ *vob-selector* | *global-type-selector* }

chevent Modifies a comment string in an event record

chevent [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–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**·**uery** | **–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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] { *master-replica-selector object-selector ...* | *master-replica-selector* [**–pname**] *branch-or-element-pname ...* | **–def**·**ault** [**–pname**] *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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] *pool-selector pname ...*

chproject Modifies a UCM project

chproject [**–c**·**omment** *comment* | **–cfi**·**le** *pname* | **–cq**·**uery** | **–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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] [**–title** *title*] *stream-selector ...*

chtype Changes an element's type/renames a branch

chtype [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–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**] [**–readо**·**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**·**uery** | **–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 [**–str·eam** *from-stream-selector*] **–g·raphical**

deliver [**–str·eam** *from-stream-selector*] [**–to** *integration-view-tag*]
[**–pre·view** [**–l·ong** | **–s·hort**]]
[**–act·ivities** *activity-selector*[,...]] [**–com·plete**] [**–gm ·erge** | **–ok**]
[**–q·uery** | **–abo·rt** | **–qal·l**] [**–ser·ial**] [**–f·orce**]

deliver [**–str·eam** *from-stream-selector*] { **–can·cel** | **–sta·tus** [**–l·ong**] }

deliver [**–str·eam** *from-stream-selector*]
{ **–res·ume** [**–com·plete**] | **–com·plete** }
[**–gm ·erge** | **–ok**] [**–q·uery** | **–ab·ort** | **–qal·l**] [**–ser·ial**] [**–f·orce**]

describe Describes an object

des·cribe –g·raphical { *object-selector* | *pname* } ...

des·cribe [**–local**] [**–l·ong** | **–s·hort** | **–fmt** *format-string*]
[**–ala·bel** { *label-type-selector* [,...] | **–all** }]
[**–aat·tr** { *attr-type-selector* [,...] | **–all** }]
[**–ahl·ink** { *hlink-type-selector* [,...] | **–all** }]
{ [**–cvi·ew**] [**–ver·sion** *version-selector* | **–anc·estor**]
[**–ihl·ink** { *hlink-type-selector* [,...] | **–all** }]
[**–pre·decessor**] [**–pna·me**] *pname* ...
| **–typ·e** *type-selector* ...
| **–cact** | *object-selector* ... }

diff Compares files or versions of an element

diff –g·raphical [**–tin·y**] [**–hst·ack** | **–vst·ack**] [**–pre·decessor**]
[**–opt·ions** *pass-through-opts*] *pname* ...

diff [**–ser·ial_format** | **–dif·f_format** | **–col·umns** *n*]
[**–opt·ions** *pass-through-opts*] [**–pre·decessor**] *pname* ...

(UNIX ONLY) diff [**–tin·y** | **–win·dow**] [**–ser·ial_format** | **–dif·f_format**
| **–col·umns** *n*] [**–opt·ions** *pass-through-opts*] [**–pre·decessor**]
pname ...

diffbl Compares UCM baselines or streams

diffbl [**–act·ivities**] [**–ver·sions**] [**–fir·st_only**]
{ *baseline-selector1* | *stream-selector1* }
{ *baseline-selector2* | *stream-selector2* }

diffcr Compares configuration records

diffcr [**–r·ecurse** | **–fla·t**] [**–sel·ect** *do-leaf-pattern*] [**–ci**]
[**–typ·e** { **f** | **d** | **l** } ...] [**–ele·ment_only**] [**–vie·w_only**]
[**–cri·tical_only**] [**–nam·e** *tail-pattern*] [**–wd**] [**–nxn·ame**]
[**–l·ong** | **–s·hort**] *do-pname-1 do-pname-2*

dospace Reports on VOB disk space used for shared DOs

dospace [**–upd·ate**] [**–sin·ce** *date-time*] [**–bef·ore** *date-time*]
[**–ref·erences** {**0**,**1**,**n**}] [**–top** *number* | **–a·ll**] [**–siz·e** *size*]
[**–reg·ion** *network-region*] [**–poo·l** *pool-name*] *vob-tag ...*

dospace [**–upd·ate**] **–dum·p** [**–reg·ion** *network-region*] *vob-tag...*

dospace –gen·erate [**–scr·ub** *days*] [*vob-tag ...*]

edcs Edits a config spec

edcs [**–tag** *view-tag*] [*file*]

edcs [*file*]

endview Deactivates a view

endview [**–ser·ver**] *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...*] **–all** [**–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** | **l** } ...
–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** | **–abort** | **–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

h·elp [*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**] [**–nco** [**–f·orce**]] *pname link-pname*

ln [**–s·link**] [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] [**–nco** [**–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

lsact·ivity [**–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* | [**–ltl·evel** *promotion-level*] [**–gtl·evel** *promotion-level*]] [**–str·eam** *stream-selector* | **–com·ponent** *component-selector*]

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

lscheckout Lists element checkouts

(WINDOWS ONLY) lsc·heckout –g·raphical *pname*

lsc·heckout | **lsco** [**–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** { **registry** | **license** | **all** }] [**–s·hort** | **–l·ong**]

lscomp Lists information for a UCM component

lscomp [**–s**hort | **–l**ong | **–fmt** *format-string* | **–tre**e]
[**–inv**ob *vob-selector* | *component-selector ...*]

lsdo Lists derived objects

lsdo [**–r**ecurse] [**–me**] [**–l**ong | **–s**hort | **–fmt** *format-string*] [**–zer**o]
[**–sti**me | **–sna**me] [**–nsh**areable_dos] [*pname ...*]

lsfolder Lists information about UCM folders

lsfolder [**–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** *folder-selector*
| **–vie**w *view-tag* | **–cvi**ew | *folder-selector ...*]

lshistory Lists the history of an element or other object

lshistory **–g**raphical [**–nop**references [[**–min**or] [**–nco**]
[**–sin**ce *date-time*] [**–use**r *login-name*]
[**–bra**nch *branch-type-selector*]]]
[[**–r**ecurse | **–d**irectory | **–a**ll | **–avo**bs]
[**–pna**me] *pname ...* | *object-selector ...*]

lshistory [**–l**ong | **–s**hort | **–fmt** *format-string*] [**–eve**ntid]
[**–min**or] [**–nco**] [**–las**t [*num-events*]]
[**–sin**ce *date-time*] [**–me** | **–use**r *login-name*]
[**–bra**nch *branch-type-selector*]
[[**–r**ecurse | **–d**irectory | **–a**ll | **–avo**bs | **–local**]
[**–pna**me] *pname ...* | *object-selector ...*]

lslock Lists locks

lslock [**–local**] [**–l**ong | **–s**hort | **–fmt** *format-string*] [**–obs**olete]
[[**–a**ll] [**–pna**me] *pname ...* | *object-selector ...*]

lspool Lists storage pools

lspool [**–l**ong | **–s**hort | **–fmt** *format-string*] [**–obs**olete]
[**–inv**ob *vob-selector* | *pool-selector ...*]

lsprivate Lists view-private objects

lsprivate [**–tag** *view-tag*] [**–inv**ob *vob-selector*] [**–l**ong | **–s**hort]
[**–siz**e] [**–age**] [**–co**] [**–do**] [**–oth**er]

lsproject Lists information about a UCM project

lsproject [**–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** *folder-selector*
| **–vie**w *view-tag* | **–cvi**ew | *project-selector* **...**]

lsregion Lists ClearCase network regions

lsregion [**–s**hort | **–l**ong] ['*region-tag-pattern*' *...*]

lsreplica Lists VOB replicas

lsreplica [**–l**ong | **–s**hort | **–fmt** *format*]
[**–sib**lings | [**–sib**lings] **–invob** *vob-selector* | *replica-selector ...*]

lsstorage (WINDOWS ONLY) Lists file-system locations for creating view and VOB storage directories

lsstorage [**–s**hort | **–l**ong] [**–vie**w | **–vob**]
[**–reg**ion *network-region*] [**–hos**t *hostname*] [*storage-global-pname*]

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* ...
| **–uui·d** *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* ... | **–uui·d** *vob-uuid*]

lsvtree Lists the version tree of an element

lsvtree –g·raphical [**–a·ll**] [**–nme·rge**] [**–nco**] *pname* ...

(UNIX ONLY) lsvtree –g·raphical [**–a·ll**] [**–nme·rge**] [**–nco**]
[**–opt·ions** *pass-through-opts*] *pname* ...

lsvtree [**–nr·ecurse**] [**–s·hort**] [**–a·ll**] [**–mer·ge**] [**–nco**] [**–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* | **–cfi·le** *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* | **–cfi·le** *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* | **–cfi·le** *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**·**uery** | **–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**·**uery** | **–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**·**uery** | **–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* }

mkattype Creates an attribute type object

mkattype [**–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**·**uery**
| **–cqe**·**ach** | **–nc**·**omment**] *attribute-type-selector* ...

mkbl Creates a UCM baseline

mkbl [**–c**·**omment** *comment* | **–cfi**· **le** *pname* | **–cq**· **uery**| **–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**· **uery**| **–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**·**uery**
| **–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**·**uery** |
–cqe·**ach** | **–nc**·**omment**] *branch-type-selector* ...

mkcomp Creates a UCM component object

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

mkdir Creates a directory element

mkdir [**–nco**] [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname*
| **–cq**·**uery** | **–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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] *element-pname* ...

mkeltype Creates an element type object

mkeltype [**–rep**·**lace**] [**–glo**·**bal** [**–acq**·**uire**] | **–ord**·**inary**]
–sup·**ertype** *elem-type-selector* [**–man**·**ager** *mgr-name*]
[**–pti**·**me**] [**–att**·**ype** *attr-type-selector*[,...]]
[**–mer**·**getype** { **auto** | **user** | **never** }]
[**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery**
| **–cqe**·**ach** | **–nc**·**omment**] *element-type-selector* ...

mkfolder Creates a folder for a UCM project

mkfolder [**–c**·**omment** *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*]
[**–fpn**·**ame**] [**–tpn**·**ame**] [**–c**·**omment** *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 [**–rep**·**lace**] [**–glo**·**bal** [**–acq**·**uire**] | **–ord**·**inary**]
[**–att**·**ype** *attr-type-selector*[,...]] [**–sha**·**red**]
[**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery**
| **–cqe**·**ach** | **–nc**·**omment**] *hlink-type-selector* ...

mklabel Attaches a label to a version

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

mklabel [**–rep**·**lace**] [**–c**·**omment** *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 [**–rep**·**lace**] [**–glo**·**bal** [**–acq**·**uire**] | **–ord**·**inary**] [**–pbr**·**anch**]
[**–sha**·**red**] [**–c**·**omment** *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** [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname*
| **–cq**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] *pool-selector* ...

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

mkproject Creates a UCM project

mkproject [**–c**·**omment** *comment* | **–cfi**·**le** *pname* | **–cq**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] [**–tit**·**le** *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* [**–tco**·**mment** *tag-comment*] [**–rep**·**lace**]

mkstream Creates a stream for a UCM project

mkstream [**–c** *comment* | **–cfile** *pname* | **–cq** | **–cqe** | **–nc**] [**–tit**·**le** *title*] [**–int**·**egration**] [**–bas**·**eline** *baseline-selector*[,...]] **–in** *project-selector* [*stream-selector...*]

mktag Creates a view tag or VOB tag

mktag –vie·**w –tag** *view-tag* [**–tco**·**mment** *tag-comment*] [**–rep**·**lace** | **–reg**·**ion** *network-region*] [**–nst**·**art**] [**–hos**·**t** *hostname* **–hpa**·**th** *local-pname* **–gpa**·**th** *global-pname*] *view-storage-dir-pname*

(UNIX ONLY) mktag –vie·**w –tag** *view-tag* [**–tco**·**mment** *tag-comment*] [**–rep**·**lace** | **–reg**·**ion** *network-region*] [**–nst**·**art**] [**–nca**·**exported**] [**–hos**·**t** *hostname* **–hpa**·**th** *local-pname* **–gpa**·**th** *global-pname*] *view-storage-dir-pname*

mktag –vob –tag *vob-tag* [**–tco**·**mment** *tag-comment*] [**–rep**·**lace** | **–reg**·**ion** *network-region*] [**–opt**·**ions** *mount-options*] [**–pub**·**lic**] [**–pas**·**sword** *tag-registry-password*] [**–hos**·**t** *hostname* **–hpa**·**th** *local-pname* **–gpa**·**th** *global-pname*] *vob-storage-dir-pname*

(UNIX ONLY) mktag –vob –tag *vob-tag* [**–tco**·**mment** *tag-comment*] [**–rep**·**lace** | **–reg**·**ion** *network-region*] [**–opt**·**ions** *mount-options*] [**–pub**·**lic**] [**–pas**·**sword** *tag-registry-password*] [**–nca**·**exported**] [**–hos**·**t** *hostname* **–hpa**·**th** *local-pname* **–gpa**·**th** *global-pname*] *vob-storage-dir-pname*

mktrigger Attaches a trigger to an element

mktrigger [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] [**–r**·**ecurse**] [**–nin**·**herit** | **–nat**·**tach**] [**–f**·**orce**] *trigger-type-selector pname ...*

mktrtype Creates a trigger type object

mktrtype –ele·ment [**–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·uery** |
–cqe·ach | **–nc·omment**] *type-selector* ...

mktrtype –typ·e [**–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·uery** |
–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*[,...] | **–all** }
–brt·ype { *branch-type-selector*[,...] | **–all** }
–elt·ype { *elem-type-selector*[,...] | **–all** }
–hlt·ype { *hlink-type-selector*[,...] | **–all** }
–lbt·ype { *label-type-selector*[,...] | **–all** }
–trt·ype { *trigger-type-selector*[,...] | **–all** }

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·uery**
| **–cqe·ach** | **–nc·omment**] *pname target-pname*

mv | **move** [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–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·uery** | **–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·uery** | **–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·uery** | **–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 [**–f·orce**] [**–qal·l**] [**–log** *log-pname*] [**–upd·ate**] *pname* [*pname* ...] *target-dir-pname*

rename Renames a ClearCase object

rename [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] { *old-object-selector new-object-selector* | **–gen·erate** *old-object-selector* }

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

reqmaster –acl [**–edi·t** | **–set** *pname* | **–get**] *vob-selector*

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

reqmaster [**–c·omment** *comment* | **–cq·uery** | **–nc·omment**] [**–lis·t**] *branch-pname ...*

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

res·erve [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] [**–cact**] *pname ...*

rmactivity Removes a UCM activity

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

rmattr Removes an attribute from an object

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

rmbl Removes a UCM baseline

rmbl [**–c·omment** *comment* | **–cfi·le** *pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] [**–f·orce**] *baseline-selector ...*

rmbranch Removes a branch from an element's version tree

rmbranch [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] [**–f·orce**] *pname ...*

rmcomp Removes a UCM component

rmcomp [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–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 [**–f·orce**] [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] *pname ...*

rmfolder Removes a UCM folder

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

rmhlink Removes a hyperlink from an object

rmhlink [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–cqe·ach** | **–nc·omment**] *hlink-selector ...*

rmlabel Removes a label from a version

rmlabel [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–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**·**uery** | **–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**·**uery** | **–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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] *pool-selector ...*

rmproject Removes a UCM project

rmproject [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–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**·**uery** | **–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**·**uery** | **–cqe**·**ach** | **–nc**·**omment**] [**–nin**·**herit** | **–nat**·**tach**] [**–r**·**ecurse**] *trigger-type-selector pname ...*

rmtype Removes a type object from a VOB

rmtype [**–ign**·**ore**] [**–rma**·**ll** [**–f**·**orce**]] [**–c**·**omment** *comment* | **–cfi**·**le** *comment-file-pname* | **–cq**·**uery** | **–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**·**uery** | **–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**] **–uui**·**d** *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

sched·ule [**–f·orce**] [**–hos·t** *hostname*] **–get**
[**–sch·edule** | **–job** *job-id-or-name* | **–tas·ks** | **–acl**]

sched·ule [**–f·orce**] [**–hos·t** *hostname*] **–edi·t** [**–sch·edule** | **–acl**]

sched·ule [**–f·orce**] [**–hos·t** *hostname*] **–set**
[**–sch·edule** | **–acl**] *defn-file-pname*

sched·ule [**–f·orce**] [**–hos·t** *hostname*]
[**–del·ete** | **–run**| **–wai·t** | **–sta·tus**] *job-id-or-name*

setactivity Specifies the current UCM activity for your view

setact·ivity [**–c·omment** *comment* | **–cfi·le** *pname* | **–cq·uery**
| **–nc·omment**] [**–vie·w** *view-tag*] { **–none** | *activity-selector* }

setcache Sets cache sizes

setcache –vie·w { **–def·ault** | **–cac·hesize** *size* } { **–cvi·ew** | *view-tag* }

setcache –vie·w –hos·t { **–def·ault** | **–cac·hesize** *size* }

setcache –vie·w –sit·e { **–def·ault** | **–cac·hesize** *size* }
[**–pas·sword** *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*] { **–cur·rent** | **–def·ault** | *pname* | **–stre·am** }

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

setplevel [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–nc·omment**] [**–inv·ob** *vob-selector*]
–def·ault *default-promotion-level promotion-level ...*

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

setsite [**–pas·sword** *registry-password*] *property-name***=***value ...*

setsite [**–pas·sword** *registry-password*] *property-name***=** ...

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

setview [**–log·in**] [**–exe·c** *cmd-invocation*] *view-tag*

shell Creates a subprocess to run a shell or other program

sh·ell | **!** [*command* [*arg ...*]]

space Reports on VOB disk space usage

space { **–vie·w** | **–vob** } [**–a·ll**] [**–upd·ate**] [**–reg·ion** *network-region*]
{ **–host** *hostname* | *tag ...* }

space –dir·ectory *pname ...*

space { **–vie·w** | **–vob** } **–gen·erate** [**–scr·ub** *days*] [*tag ...*]

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

startview *view-tag ...*

umount Deactivates a VOB

umount { *vob-tag* | **–a·ll** }

uncheckout Cancels a checkout of an element

uncheck·out | **unco** [**–kee·p** | **–rm**] [**–cact**] *pname ...*

unlock Unlocks an object

unlock [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] { [**–pna·me**] *pname ...* | *object-selector ...* }

unregister Removes a VOB or view from the object registry

unreg·ister –vob { **–uui·d** *uuid* | *vob-storage-dir-pname* }

unreg·ister –view { **–uui·d** *uuid* | *view-storage-dir-pname* }

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

(WINDOWS ONLY) unreg·ister –viewsto·rage [**–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* | **–cfi·le** *comment-file-pname* | **–cq·uery** | **–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:

prefix	Kind of object; optional if the context of the command implies the kind of object.
name	Name of the object.
@vob-selector	VOB specifier; default value is usually the VOB containing the current working directory. Specify *vob-selector* in the form [**vob:**]*pname-in-vob*, where *pname-in-vob* can be • 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 **–version** option	**cleartool describe –version** \ **'/main/{attype(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) && hltype(spec,<–)' –ok** \ **'cleartool mklabel –nc SPEC** \ **$CLEARCASE_XPN'**
findmerge: **–element** option	**cleartool findmerge /vobs/src** \ **–element 'created_by(drp)' –merge**

Query Primitives

Attribute with specified value on object	*attr-type compare-op value* *compare-op*: **== != < <= > >=**
Attribute with specified value on object or subobject	**attr_sub(***attr-type***,***compare-op***,***value***)**
Attribute on object	**attype(***attr-type***)**
Attribute on object or subobject	**attype_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(***element-type***)**
Has hyperlink of particular type	**hltype(***hlink-type***)** **hltype(***hlink-type***, –>)** **hltype(***hlink-type***, <–)**
Has particular version label	**lbtype(***label-type***)**
Version label on object or subobject	**lbtype_sub(***label-type***)**
Selects elements with merge arrow	**merge(***from-location***,***to-location***)**
Selects elements assigned to pool	**pool(***pool-name***)**
Selects elements with particular attached triggers	**trtype(***trigger-type***)**
Selects versions	**version(***version-selector***)**

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 *attr***=***value* pairs)
%Sa	Value only (instead of *attr***=***value*)
%Na	Space-separated list (no commas or parentheses)
%[*attype***]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)
%[*text***]f**	Text (displays *text* as a prefix to the version-id)
%h	Name of host at which the event originated
%i	Indent level (modifier: **[***indent-level***]**)
%l ("el")	Labels (parenthesized, comma-separated list)
%Cl	Field width spec = maximum number of labels to display
%Nl	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 *p* (see *Property Values*)
%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	*user-ID.group-ID*
%%	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

\t	tab
\n	newline
nnn	octal character code
\’	single-quote
\\	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 **%Cl**. For example, **%.5Cl** 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

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

–C *mode*	Compatibility mode
–V	Disables winkins 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	*macro_name* **=** *string* *target-list* **:=** *macro_name* **=** *string* *macro_name* **:sh=** *shell-command*
include file facility	**include** *BOS-file* **sinclude** *BOS-file*
special targets	**.DEPENDENCY_IGNORED_FOR_REUSE** **.INCREMENTAL_REPOSITORY_SIBLING** **.INCREMENTAL_TARGET** **.NO_CMP_NON_MF_DEPS** **.NO_CMP_SCRIPT** **.NO_CONFIG_REC** **.NO_DO_FOR_SIBLING** **.NO_WINK_IN** **.NOTPARALLEL (UNIX ONLY)** **.SIBLING_IGNORED_FOR_REUSE** **.SIBLINGS_AFFECT_REUSE**

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

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

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