Rational® ClearCase®

Quick Reference

Version 2002.05.00 and later

800-025070-000

cleartool Subcommands

annotate — Annotates lines of text file / time stamps, user names, and so on

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) — Displays command summary information

apr·opos *topic ...*

apr·opos –glo·ssary [*topic-args*]

catcr — Displays configuration record created by **clearmake**, **omake** (Windows only), or **clearaudit**

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**] **[–fol·low]** [**–l·ong** | **–s·hort**] *do-pname* ...

catcr –**scr·ipts_only** [–**rec·urse**] [–**l·ong** | –**s·hort**] *do-pname* ...

catcs — Displays the config spec of a view

catcs [**–tag** *view-tag*]

cd — Changes the current working directory

cd [*dir-pname*]

chactivity — Changes an 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 baseline

chbl [**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] { [[**–inc·remental** | **–fu·ll**] [–**nre·curse**]]
[**–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 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 inconsistencies between VOB database and storage pools, problems with hyperlinks, and problems with 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 the 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**]
–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* ...
| [**–pname**] *master-replica-selector branch-or-element-pname* ... |
–str·eam [–**ove·rride**] *master-replica-selector stream-selector* ...
| **–def·ault** [**–pname**] *branch-pname* ...
| **–def·ault** *brtype-selector* ...
| **–all** [**–obsolete_replica** *old-replica-selector*] [**–l·ong**] [**–vie·w** *view-tag*
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**] { [**–amo·dcomp** *component-selector*[,...]]
[–**dmo·dcomp** *component-selector*[,...]]
[**–to** *to-folder-selector*] [**–reb·ase-level** *promotion-level*]
[**–pol·icy** *policy-keyword*[,...]] [**–npo·licy** *policy-keyword*[,...]]
[**–spolicy** *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**] [**–tar·get** *stream-selector* | **–nta·rget**] [–**gen·erate**]
[**–pol·icy** *policy-keyword*[,...]] [**–npo·licy** *policy-keyword*[,...]]
[–**rec·ommended** { *baseline-selector*[,...] | –**def·ault** }
| –**nre·commended**] *stream-selector ...*

chtype Changes the type of an element or renames a branch

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

chview Changes 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 an existing 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 source stream to the target stream within or across projects

deliver –g·raphical [**–str·eam** *stream-selector*] [–**to** *target-view-tag*] [–**tar·get** *stream-selector*] [–**q·uery** | –**qal·l**]

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

deliver –pre·view [**–s·hort** | **–l·ong**] [**–str·eam** *stream-selector*] [**–to** *target-view-tag*] [**–tar·get** *stream-selector*] [**–act·ivities** *activity-selector* ... | **–bas·elines** *baseline-selector* ...]

deliver [**–str·eam** *stream-selector*] [–**to** *target-view-tag*] [**–tar·get** *stream-selector*] [**–act·ivities** *activity-selector* ... | **–bas·elines** *baseline-selector* ...] [**–com·plete**] [**–gm ·erge** | **–ok**] [**–q·uery** | **–abo·rt** | **–qal·l**] [**–ser·ial**] [**–f·orce**]

deliver { **–res·ume** | **–com·plete** } [**–str·eam** *stream-selector*] [**–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 versions of a text-file element or a directory

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

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

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

diffbl Compares the contents of baselines or streams

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

diffbl –pre·decessor [**–act·ivities**] [**–ver·sions**] *baseline-selector*

diffbl –g·raphical *baseline-selector1 baseline-selector2*

diffbl –g·raphical –pre·decessor *baseline-selector*

diffcr Compares configuration records created by **clearmake**, **omake**, or **clearaudit**

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**] [**–fol·low**] [**–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 the config spec of a view

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	Uses a pattern, query, or expression to search for objects

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** | **l** } ...
–fol·low
–nxn·ame
–ele·ment *query*
–bra·nch *query*
–ver·sion *query*
–kin·d { *object_selector* | **all** }

action-options (at least one required, multiple allowed):
–pri·nt
–exe·c *command-invocation*
–ok *command-invocation* ...

findmerge	Finds versions requiring merge or 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 specified version of a file element into 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**] [**–reset**]

getlog	Displays UNIX log files or Windows log entries

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*] { **–a·ll** | *log-name ...* }

getlog –inq·uire [**–hos·t** *hostname*]

help	Displays help on command usage

h·elp [*command-name*]

command-name **–h·elp**

hostinfo	Displays configuration data for one or more hosts

hostinfo [**–l·ong**] [**–pro·perties** [**–ful·l**]] [*hostname ...*]

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 target-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 objects, elements loaded into a snapshot view, and view-private objects in a directory

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*]]
[–**obs·olete**] [**–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 baseline

lsbl [**–s·hort** | **–l·ong** | **–fmt** *format-string*] [**–tre·e**]
[**–lev·el** *promotion-level* | [**–ltl·evel** *promotion-level*]
[**–gtl·evel** *promotion-level*]]
[**–com·ponent** *component-selector*] [–**obs·olete**]
[**–str·eam** *stream-selector* | **–cvi·ew**]

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

lscheckout Lists checkouts of an element

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* ...]

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

lsclients Displays the client host list for a ClearCase license or registry server host

lsclients –hos·t *hostname* [**–typ·e** { **registry** | **license** | **all** }]
[**–s·hort** | **–l·ong**]

lscomp Lists information about a component

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

lsdo Lists derived objects created by **clearmake**, **omake**, or **clearaudit** (dynamic views only)

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 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* ...] [–**obs·olete**]

lshistory Lists event records for VOB-database objects

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

lsh·istory [**–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 on objects

lslock [**–kind** *object-selector-kind*] [**–fmt** *format-string*]
[[**–a·ll**] [**–pna·me**] *pname* ... | *object-selector* ...]

lsmaster Lists objects mastered by a replica

lsmaster [**–l·ong** | **–s·hort** | **–fmt** *format-string*] [**–vie·w** *view-tag*]
[**–inr·eplicas** { **–all** | *replica-name*[,...] }] *master-replica-selector* ...

lspool Lists VOB storage pools

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

lsprivate Lists objects in a dynamic view's private storage area

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

lsproject Lists information about a 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*]] [**–obs·olete**]
[**–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

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

lssite Lists site-wide default properties

lssite [**–inq·uire** | *setting-name*]

lsstgloc Lists view and VOB server storage locations

lsstgloc [**–vie·w** | **–vob**] [**–s·hort** | **–l·ong**] [**–reg·ion** *network-region*]
[**–hos·t** *hostname*] [*stgloc-name* | **'***stgloc-name-pattern***'** ...
| **–sto·rage** *stgloc-pname*]

lsstream Lists information about one or more 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*]] [–**obs·olete**]
[**–inv·ob** *vob-selector* | **–in** *project-selector*
| **–vie·w** *view-tag* | **–cvi·ew** | *stream-selector* ...]

lstype Lists a VOB's type objects

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

(WINDOWS ONLY) lstype –**g·raphical** [**–kin·d** *type-kind*]
[**–inv·ob** *vob-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*
| –**fam·ily** *vob-family-uuid*]

lsvtree Lists version tree of an element

(WINDOWS ONLY) 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 an online reference page

(UNIX ONLY) man [**–g·raphical**] [*command_name*]

(WINDOWS ONLY) man [*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 an activity

mkact·ivity [**–c·omment** *comment* **| –cfi·le** *pname* **| –cq | –cqe**
| –nc·omment] [**–hea·dline** *headline*] [**–in** *stream-selector*] [**–nse·t**]
[**–f·orce**] [*activity-selector ...*]

mkattr Attaches attributes to objects

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 or updates 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 baseline or set of baselines

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**]
–com·ponent *component-selector*
{ [–**ade·pends_on** *depend-component-selector*[**,**...]]
[–**dde·pends_on** *depend-component-selector*[**,**...]] }
[**–nla·bel** | **–inc·remental** | **–fu·ll**] [**–nac·t**]
baseline-root-name

mkbl [**–c·omment** *comment* | **–cfi· le** *pname* | **–cq· uery**| **–nc·omment**]
–imp·ort [**–com·ponent** *component-selector*[**,**...]] *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 or updates 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 component object

mkcomp [–**c·omment** *comment* | –**cfi·le** *pname* | –**cq·uery** | –**nc·omment**]
{ –**roo·t** *root-dir-pname* | –**nro·ot** } *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 or updates 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 project

mkfolder [**–c·omment** *comment* | **–cfi·le** *pname* | **–cq·uery** | **–cqe ach**
| **–nc omment**] **–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**] [**–acq·uire**]
[**–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 or updates 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 version labels to versions of elements

mklabel [**–rep·lace**] [**–r·ecurse**] [**–fol·low**] [**–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 or updates 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 a VOB storage pool or modifies its scrubbing parameters

(UNIX ONLY) **mkpool –sou·rce** [**–ln** *pname*] [**–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* ...

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

(WINDOWS ONLY) **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* ...

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 project

mkproject [**–c·omment** *comment* | **–cfi·le** *pname* | **–cq·uery** | **–cqe·ach**
| **–nc·omment**] [**–mod·comp** *component-selector*[,...]]
–in *folder-selector* [–**pol·icy** *policy-keyword*[,...]]
[–**npo·licy** *policy-keyword*[,...]] [–**spo·licy** *policy-keyword*[,...]]
[**–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**]

mkstgloc Creates a server storage location for views or VOBs

mkstgloc { **–vie·w** | **–vob** } [**–f·orce**] [**–c·omment** *comment*]
[**–reg·ion** *network-region*]
[**–hos·t** *hostname* **–hpa·th** *host-storage-pname* **–gpa·th** *global-storage-pname*
| **–ngp·ath** [**–hos·t** *hostname* **–hpa·th** *host-storage-pname*]]
stgloc-name stgloc-pname

mkstream Creates a stream for a project

mkstream –int·egration –in *project-selector*
[**–c·omment** *comment* | –**cfi·le** *pname* | –**cq·uery** | –**cqe·ach**
| –**nc·omment**] [–**bas·eline** *baseline-selector*[**,**...]]
[–**pol·icy** *policy-keyword*[**,**...]] [–**npo·licy** *policy-keyword*[**,**...]]
[–**tar·get** *stream-selector*] [*stream-selector*...]

mkstream {–**in** *project-selector* | *stream-selector* }
[**–c·omment** *comment* | –**cfi·le** *pname* | –**cq·uery** | –**cqe·ach**
| –**nc·omment**] [–**bas·eline** *baseline-selector*[**,**...]]
[–**pol·icy** *policy-keyword*[**,**...]] [–**npo·licy** *policy-keyword*[**,**...]]
[*stream-selector*...]

mktag Creates a tag for a view or VOB

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

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

mktag –vie·w –tag *snapshot-view-tag* [**–tco·mment** *tag-comment*]
[**–rep·lace** | **–reg·ion** *network-region*] [**–nst·art**]
[**–hos·t** *hostname* **–gpa·th** *global-storage-pname*
| **–ngpath** [**–host** *hostname*]] *snapshot-view-storage-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* **–gpa·th** *global-storage-pname*
| **–ngp·ath** [**–hos·t** *hostname*]] *vob-storage-pname*

(WINDOWS 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*] ·
[**–hos·t** *hostname* **–gpa·th** *global-storage-pname*
| **–ngp·ath** [**–hos·t** *hostname*]] *vob-storage-pname*

mktrigger Attaches a trigger to an element or UCM object

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* | *ucm-object-selector* } ...

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* ...

mktrtype –ucm·object [**–a·ll**] [**–rep·lace**]
{ **–pre·op** | **–pos·top** } *opkind*[,...] [**–nus·ers** *login-name*[,...]]
{ **–exe·c** *command*
| **–execu·nix** *command*
| **–execw·in** *command*
| **–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* ...

A *restriction-list* for an element trigger type 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** }

An *inclusion-list* for a type trigger type 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*[,...]

A *restriction-list* for a UCM trigger type contains one or more of:

–com·ponent *component-selector*[,...] (*Default:* All components)
–pro·ject *project-selector*[,...] (*Default:* All projects)
–str·eam *stream-selector*[,...] (*Default:* All streams)

mkview Creates and registers a view

(UNIX ONLY) **mkview –tag** *dynamic-view-tag* [**–tco·mment** *tag-comment*]
[**–tmo·de** { **insert_cr** | **transparent** | **strip_cr** }]
[**–reg·ion** *network-region*] [**–ln** *remote-storage-dir-pname*]
[**–nca·exported**] [**–cac·hesize** *size*]
[**–sha·reable_dos** | **–nsh·areable_dos**] [**–str·eam** *stream-selector*]
{ **–stg·loc** { *view-stgloc-name* | **–aut·o** }
| [**–hos·t** *hostname* **–hpa·th** *host-storage-pname*
–gpa·th *global-storage-pname*] *dynamic-view-storage-pname* }

(WINDOWS ONLY) **mkview –tag** *dynamic-view-tag*
[**–tco·mment** *tag-comment*]
[**–tmo·de** { **insert_cr** | **transparent** | **strip_cr** }]
[**–reg·ion** *network-region*] [**–cac·hesize** *size*]
[**–sha·reable_dos** | **–nsh·areable_dos**] [**–str·eam** *stream-selector*]
{ **–stg·loc** { *view-stgloc-name* | **–aut·o** } | [**–hos·t** *hostname*
–hpa·th *host-storage-pname* **–gpa·th** *global-storage-pname*]
dynamic-view-storage-pname }

mkview –sna·pshot [**–tag** *snapshot-view-tag*] [**–tco·mment** *tag-comment*]
[**–tmo·de** { **insert_cr** | **transparent** | **strip_cr** }]
[**–cac·hesize** *size*] [**–pti·me**] [**–str·eam** *stream-selector*]
[**–stg·loc** *view-stgloc-name* | **–col·ocated_server** [**–hos·t** *hostname*
–hpa·th *host-snapshot-view-pname*
–gpa·th *global-snapshot-view-pname*] | **–vws** *view-storage-pname*
[**–hos·t** *hostname* **–hpa·th** *host-storage-pname*
–gpa·th *global-storage-pname*]] *snapshot-view-pname*

mkvob Creates and registers a versioned object base (VOB)

(UNIX ONLY) **mkvob –tag** *vob-tag* [**–ucm·project**]
[**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] [**–tco·mment** *tag-comment*]
[**–reg·ion** *network-region*] [**–opt·ions** *mount-options*] [**–nca·exported**]
[**–pub·lic**] [**–pas·sword** *tag-registry-password*] { [**–hos·t** *hostname*
–hpa·th *host-storage-pname* **–gpa·th** *global-storage-pname*]
vob-storage-pname | **-stgloc** { *vob-stgloc-name* | **–auto** } }

(WINDOWS ONLY) **mkvob –tag** *vob-tag* [**–ucm·project**]
[**–c·omment** *comment* | **–cfi·le** *comment-file-pname* | **–cq·uery**
| **–cqe·ach** | **–nc·omment**] [**–tco·mment** *tag-comment*]
[**–reg·ion** *network-region*] [**–opt·ions** *mount-options*] [**–pub·lic**]
[**–pas·sword** *tag-registry-password*] { [**–hos·t** *hostname*
–hpa·th *host-storage-pname* **–gpa·th** *global-storage-pname*]
vob-storage-pname | **-stgloc** { *vob-stgloc-name* | **–auto** } }

mount Activates a VOB at its VOB-tag directory

(UNIX ONLY) **mount** [**–opt·ions** *mount-options*] *vob-tag*

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

(UNIX ONLY) **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*

protect	Changes permissions or ownership of a VOB 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 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 working directory

pwd

pwv	Prints the working view

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

quit	Quits an interactive session

q·uit

rebase	Changes the configuration of a stream

rebase –gr·aphical [**–vie·w** *rebase-view-tag*] [**–str·eam** *stream-selector*]
[–**q·uery** | –**qal·l**]

rebase { –**can·cel** | –**sta·tus** [–**l·ong**] } [–**vie·w** *rebase-view-tag*]
[**–str·eam** *stream-selector*]

rebase –**pre·view** [–**s·hort** | –**l·ong**] [–**vie·w** *rebase-view-tag*]
[–**str·eam** *stream-selector*] { –**rec·ommended**
| { –**bas·eline** *baseline-selector*[,...] –**dba·seline** *baseline-selector*[,...] } }

rebase { –**rec·ommended**
| { –**bas·eline** *baseline-selector*[**,**...] –**dba·seline** *baseline-selector*[**,**...] } }
[–**vie·w** *rebase-view-tag*] [**–str·eam** *stream-selector*][–**com·plete**]
[–**gm ·erge** | –**ok**] [**–q·uery** | –**abo·rt** | –**qal·l**] [–**ser·ial**] [–**f·orce**]

rebase { –**res·ume** | –**com·plete** } [**–vie·w** *rebase-view-tag*]
[**–str·eam** *stream-selector*] [–**gm·erge** | –**ok**]
[–**q·uery** | –**abo·rt** | –**qal·l**] [–**ser·ial**] [–**f·orce**]

recoverview	Recovers a dynamic 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

(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*

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

register — Creates an entry in the VOB or view object registry

reg·ister –vie·w [**–rep·lace**]
[**–hos·t** *hostname* **–hpa·th** *host-storage-pname*] *view-storage-pname*

reg·ister –vob [**–ucm·project**] [**–rep·lace**]
[**–hos·t** *hostname* **–hpa·th** *host-storage-pname*] *vob-storage-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 — Assigns a new name to an existing object

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

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

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* ...] [*branch-type-selector* ...] }

reserve — Converts an unreserved checkout to reserved

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

rmactivity — Deletes an 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 baseline

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

rmbranch — Removes a branch from the version tree of an element

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

rmcomp — Removes a 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 or symbolic link from a VOB

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

rmfolder Removes a folder

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

rmhlink Removes a hyperlink object

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

rmlabel Removes a version 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 an element's version tree

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 version

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

rmpool Removes a VOB storage pool

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

rmproject Removes a 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*]]

rmstgloc Removes registry entries for server storage locations

rmstgloc [**–all**] [**–reg·ion** *network-region*]
{ *stgloc-name* | **–sto·rage** *stgloc-pname* }

rmstream Removes a stream

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

rmtag Removes a view-tag or a VOB-tag from the networkwide storage 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 trigger from an element or UCM object

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* | *ucm-object-selector* } ...

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 the version tree of an element

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 or removes view-related records from a VOB

rmview [**–f·orce**] { **–tag** *dynamic-view-tag* | *dynamic-view-storage-pname* }

rmview [**–f·orce**] { *snapshot-view-pname* | *snapshot-view-storage-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 and manages 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 — Sets or unsets the activity for a view

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

setcache — Changes cache settings

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 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 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 disk space use for views, VOBs, or file-system files or directories

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 dynamic view's **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 an entry from the vob_object or view_object registry

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

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

unreserve — Changes a reserved 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 elements in 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 — Accesses one or more derived objects (DOs) from a dynamic view, or converts a nonshareable derived object to a shareable (promoted) 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 Rational ClearCase.

comments	Event records and comments
env_ccase	Environment variables
events_ccase	Operations and event records
fmt_ccase	Format strings for command output
Intro	Introduction to ClearCase reference pages
pathnames_ccase	Pathname resolution, dynamic view context, and extended namespace
permissions	Identity checking
profile_ccase	**cleartool** user profile: **.clearcase_profile**

query_language	Selects objects by their metadata
version_selector	Version-selector syntax
wildcards_ccase	Pattern-matching characters for ClearCase 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 selects the most recent version on the specified branch. Using a query without a branch pathname causes an element's entire version tree to be searched. If the query returns a single version, the version-selection operation succeeds; the operation fails if the query returns no version (not found) or returns more than one version (ambiguous).

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 **%Na** **%[***attype***]a**	Value only (instead of *attr***=***value*) Space-separated list (no commas or parentheses) Display this attribute only
%c	Comment string from object's event record
%Nc	Comment string without trailing **<NL>**

%d	Date/time
%Nd **%Sd** **%Vd** **%Ad** **%MAd** **%BAd** **%OAd**	Date and time in numeric format Date only Day of week, date, and time Age in days Age in months Age as a bar graph (longer bar = more recent) 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 **%Tf** **%[***text***]f**	Checkout status (reserved or unreserved) View-tag of the view holding the checked-out element) 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 **%Nl**	Field width spec = maximum number of labels to display 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 **%En** **%Ln** **%On** **%Sn** **%Vn** **%Xn** **%PVn** **%PSn**	Database identifier (DBID) Element name Leaf name Object identifier (OID) Short name Version ID Extended name Predecessor's version ID 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** **%[***c***]St** **%[***c***]Tt**	At overflow, print newline then resume at starting column At overflow, print one space then next value At overflow, print a tab then next value
%u	User name
%Fu **%Gu** **%Lu**	User's full name User's group name *user-ID***.***group-ID*
%%	Percent sign

Property Values

ClearCase Variants:

%[name]p	Same as**%n**, including variants
%[object_kind]p	Kind of object
%[locked]p	Lock status of the object
%[activity]p	Activity containing the specified version
%[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:

%[stream]p	The stream containing the activity
%[versions]p	Versions in activity’s change set
%[component]p	Component associated with the baseline
%[depends_on]p	Direct members in the composite
%[depends_on_closure]p	All member baselines in the composite
%[label_status]p	The label status of a baseline
%[root_dir]p	The root directory for the component
%[contains_folders]p	Subfolders of the folder
%[contains_projects]p	Projects contained by the folder
%[folder]p	The parent folder for a folder or a project
%[def_rebase_level]p	Required promotion level for rebasing
%[istream]p	The project integration stream
%[mod_comps]p	Modifiable components
%[rec_bls]p	Recommended baselines
%[activities]p	Activities associated with stream
%[config_spec]p	Config spec of object
%[def_deliver_tgt]	The default deliver target stream
%[dstreams]p	Child streams of the stream
%[found_bls]p	Foundation baselines
%[latest_bls]p	Latest baseline in a stream
%[project]p	The project the stream is part of
%[views]p	Views attached to the stream

MultiSite Variants:

%[master]p	Name of master replica
%[master]Op	OID of master 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*.

clearmake Command-Line Syntax

(UNIX ONLY) clearmake [**–f** *makefile*] ... [**–cukinservwdpqUNR**]
[**–J** *num*] [**–B** *bldhost-file*] [**–C** *compat-mode*] [**–V** | **–M**] [**–O** | **–T** | **–F**]
[**–A** *BOS-file*] ... [*macro***=***value* ...] [*target-name* ...]

(WINDOWS ONLY) clearmake [**–f** *makefile*] ... [**–cukinservwdpqUNR**]
[**–C** *compat-mode*] [**–V** | **–M**] [**–O** | **–T** | **–F**]
[**–A** *BOS-file*] ... [*macro***=***value* ...] [*target-name* ...]

clearmake {**–version** | **–VerAll**}

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 does not run build scripts
–c	Checks out DOs before building or winking in
–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 **CCASE_MAKEFLAGS**	**clearmake** command options (no arguments)
CCASE_ABE_PN	Path for audited build executor
CCASE_AUDIT_TMPDIR	Temporary workspace
CCASE_AUTO_DO_CI	Checks in DOs checked out by **clearmake -c** or **omake -C**
CCASE_BLD_HOSTS	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	Concurrency level; overridden by **–J**
CCASE_DNVW_RETRY	Minutes to wait before retrying to contact an inaccessible view
CCASE_HOST_TYPE	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**
CCASE_WINKIN_VIEWS	Views from which **clearmake** winks in DOs
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=** *string*
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 *OMAKE Guide*.

omake Command-Line Syntax

omake [**–f** *makefile* ...] [**–b** *builtins-file* ...]
[**–akinservdphzACDGM**] [**–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
–C	Checks out DOs before building or winking in
–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
.UNIXPATHS	Decides where to look for inferred dependency

Target Attributes

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

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

.ALWAYS	Always rebuilds named target
.CHAIN	Chains inference rules
.IGNORE	Ignores nonzero 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 nonzero 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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