

CLI Command Summary

actionpoint: Gets/sets action point properties
TV::actionpoint *action* [*obj-id*] [*other-args*]

alias

Creates user-defined command pseudonym
alias *alias-name defn-body*
 Views previously defined aliases
alias [*alias-name*]

capture: Returns command's output as string
capture [*-out* | *-err* | *-both*]
 [*-f filename*] *command*

dactions

Displays information about action points
dactions [*ap-id-list*] [*-at source-loc*]
 [*-enabled* | *-disabled*]
 [*-enabled_blocks* | *-disabled_blocks*]
 [*-block_images*]
 [*-block_lines*]
 Saves action points to a file
dactions *-save* [*filename*]
 Loads previously saved action points
dactions *-load* [*filename*]

dassign: Changes the value of a scalar variable
dassign *target value*

dattach: Brings processes under CLI control
dattach [*-g gid*] [*-r hname*] [*-rank num*]
 [*-replay* | *-no_replay*]
 [*-go* | *-halt*]
 [*-ask_attach_parallel*]
 [*-no_attach_parallel*]
 [*-c corefile-name*] [*-e*] *fname* [*pid-list*]
 [*-parallel_attach_subset*]
subset_specification]

dbarrier

Creates barrier breakpoint at a location
dbarrier *source-loc* [*-pending*]
 [*-stop_when_hit*]
 { *group* | *process* | *none* }]
 [*-stop_when_done*]
 { *group* | *process* | *none* } }

Creates a barrier breakpoint at an address
dbarrier *-address addr* [*-pending*]
 [*-stop_when_hit*]
 { *group* | *process* | *none* }]
 [*-stop_when_done*]
 { *group* | *process* | *none* } }

dbreak

Creates a breakpoint at a source location
dbreak *loc* [*-p* | *-g* | *-t*] [[*-l lang* | *-e expr*]]
 [*-pending*]
 Creates a breakpoint at an address
dbreak *-address addr* [*-p* | *-g* | *-t*]
 [[*-l lang* | *-e expr*]]
 [*-pending*]

dcache: Clears the remote library cache
dcache *-flush*

dcalltree: Prints parallel backtrace data
dcalltree [*-data pbv_data_array*]
 [*-show_details*] [*-hide_backtrace*]
 [*-sort columns*] [*-saveAsCSV filename*]
 [*-saveAsDot filename*]

dcheckpoint

Creates a checkpoint on SGI IRIX
dcheckpoint [*after_checkpointing*]
 [*-by process_set*] [*-no_park*] [*-force*]
 [*-no_preserve_ids*] [*-ask_attach_parallel*]
 [*-no_attach_parallel*] *name*
 Creates a checkpoint on IBM AIX
dcheckpoint [*-delete* | *-halt*]

dcuda: Allows examination of CUDA threads
dcuda { *block [(x,y)]* | *thread [(x,y,z)]* }
dcuda { *kernel* }
dcuda { *device* [<n>] | *sm* [<n>] }
warp [<n>] | *lane* [<n>] }
dcuda { *info-system* | *info-device* }
 | *info-sm* | *info-warp* | *info-lane* }
dcuda { *focus (Bx,By,Bz),(Tx,Ty)* }
 | *hwfocus* <D/S/W/L> }

dcont: Starts execution and waits for it to stop
dcont

ddelete

Deletes some action points
ddelete *action-point-list*
 Deletes all action points
ddelete *-a*

ddetach: Detaches from the processes
ddetach

ddisable

Disables some action points
ddisable *action-point-list*

Disables all action points
ddisable *-a*

ddlopen

Loads a shared object library
ddlopen [*-now* | *-lazy*] [[*-local* | *-global*]]
 [*-mode int*] *filespec*
 Displays shared object library information
ddlopen [*-list dll-ids...*]

ddown: Moves down the call stack
ddown [*num-levels*]

dec2hex: Converts decimal into hexadecimal
TV::dec2hex *number*

denable

Enables some action points
denable *action-point-list*
 Enables all disabled action points in focus
denable *-a*

dexamine

Display memory contents
dexamine [*-column_count cnt*]
 [*-count cnt*] [*-data_only*]
 [*-show_chars*] [*-string_length len*]
 [*-format fmt*] [*-memory_info*]
 [*-wordsize size*] *variable_or_expression*

dflush

Removes top suspended expression evaluation
dflush
 Removes all suspended dprint
dflush *-all*
 Removes dprint evaluations to suspended ID
dflush *susp-eval-id*

dfocus

Changes target of future CLI commands or returns current value
dfocus [*p/t-set*]
 Executes a command in this P/T set
dfocus *p/t-set command*

dga: Displays global array variables
dga [*-lang lang_type*] [*handle_or_name*] [*slice*]

dgo: Resumes execution of target processes
dgo

dgroups

Adds members to thread and process groups
dgroups *-add* [*-g gid*] [*id-list*]
 Deletes groups
dgroups *-delete* [*-g gid*]
 Intersects a group with processes and threads
dgroups *-intersect* [*-g gid*] [*id-list*]
 Prints process and thread group information
dgroups [*-list*] [*pattern*]
 Creates a new thread or process group
dgroups *-new* [*thread_or_process*]
 [*-g gid*] [*id-list*]
 Removes members from groups
dgroups *-remove* [*-g gid*] [*id-list*]

dhalt: Suspends execution of processes
dhalt

dheap

Commands are contained within the *TotalView Reference Guide*.

dhistory

Displays ReplayEngine information and other related functions
dhistory [*-info*] [*-enable*] [*-disable*]
 [*-create_bookmark* [*comment*]]
 [*-goto_bookmark ID*] [*-go_live*]
 [*-show_bookmarks*]
 [*-delete_bookmark ID*]
 Save Replay history
 [*-save* [*recording-file*]]
 Deprecated options
 [*-get_time*] [*-go_time time*]

dhold

Holds processes
dhold *-process*
 Holds threads
dhold *-thread*

dkill: Terminates execution of processes
dkill [*-remove*]

dlappend: Appends list to TotalView variable
dlappend *variable-name value* [...]

dlist

Displays code relative to current location
dlist [*-n num-lines*]
 Displays code relative to a named location
dlist *source-loc* [*-n num-lines*]
 Displays code relative to current PC location
dlist *-e* [*-n num-lines*]

dll: Manages shared libraries
TV::dll *action* [*dll-id-list*] [*other-args*]

dload: Loads debugging information
dload [*-g gid*] [*-mpi starter*] [*-r hname*]
[*-replay* | *-no_replay*]
[*-env variable=value*]... [*-e*] *executable*
[*-parallel_attach_subset*
subset_specification]

dmstat: Displays memory use information
dmstat

dnnext: Steps source lines, stepping over subroutines
dnnext [*-back*] [*num-steps*]

dnnexti: Steps assembly, stepping over subroutines
dnnexti [*-replay* | *-no_replay*] [*num-steps*]

dout: Executes to just after place that called current routine
dout [*-back*] [*frame-count*]

dprint: Prints the value of variable/expression
dprint [*-nowait*] [*-slice slice_expr*]
[*-stats* [*-data*]]
variable_or_expression

dptsets: Shows process and thread status
dptsets [*psset_array*]...

drerun: Restarts processes
drerun [*cmd_arguments*] [*< infile*]
[*> >] [&] outfile*]
[*2> >] errfile*]

drestart
Restarts a checkpoint on AIX
drestart [*-halt*] [*-g gid*] [*-r host*]
[*-no_same_hosts*]
Restarts a checkpoint on SGI
drestart [*process-state*] [*-no_unpark*]
[*-g gid*] [*-r host*]
[*-ask_attach_parallel*
[*-no_attach_parallel*]
[*-no_preserve_ids*] *checkpoint-name*

drun: Starts or restarts processes
drun [*cmd_arguments*] [*< infile*]
[*> >] [&] outfile*]
[*2> >] errfile*]

dsession: Loads a session
dsession [*-load session_name*]

dset
Creates or changes a CLI state variable
dset *debugger-var value*
Views current CLI state variables
dset [*debugger-var*]
Sets the default for a CLI state variable
dset *-set_as_default debugger-var value*

dskip:
Creates a rule to skip over or through a function
dskip [*over* | *through*] [*function* | *-function* | *-fu*] [*function_name*]
Creates a rule to skip over or through a file
dskip [*over* | *through*] [*file* | *-file* | *-fi*] *filename*
Creates a rule to skip over or through functions that are also contained in specific source files
dskip [*over* | *through*] { { *-function* | *-fu* } *function-name* | { *-rfunction* | *-rfu* } *function-regexp* } { { *-file* | *-fi* } *filename* | { *-gfile* | *-gfi* } *file-glob* }
Enables or disables skipping of a list of IDs
dskip [*enable* | *disable*] [*id*]
Deletes a list of skip IDs
dskip *delete* [*id*]
Prints information about a list of skip IDs
dskip *info* [*id*]

dstacktransform:
Enables or disables the stack transform facility
dstacktransform [*enable* | *disable*] *id* | *transform_name*]
Prints the current state of rules and transforms.
dstacktransform [*list*]
Prints the enabled/disabled state of the stack transform facility
dstacktransform [*status*]
Removes the rule with the given id from the stack transform facility
dstacktransform [*remove id*]
Adds a new transform.
dstacktransform *add* [*-name* | *-n string*] [*-implementation* | *-i path*]
Adds a new transform rule.
dstacktransform *add* [*-filter test_function_list*] [*-transform* | *-t name*] [*-operation* | *-o operation_name*] [*-position* | *-p integer*] [*-before* | *-b integer*]

dstatus: Shows process/thread status
dstatus

dstep: Steps lines, stepping into subfunctions
dstep [*-back*] [*num-steps*]

dstepli: Steps assembly, stepping into subfunctions
dstepli [*-back*] [*num-steps*]

dunhold
Releases a process
dunhold *-process*
Releases a thread
dunhold *-thread*

dunset
Restores a CLI variable to its default value
dunset *debugger-var*
Restores all CLI variables to default values
dunset *-all*

duntil
Runs to a line
duntil [*-back*] *line-number*
Runs to an address
duntil [*-back*] *-address addr*
Runs into a function
duntil *proc-name*

dup: Moves up the call stack
dup [*num-levels*]

dwait:
Blocks command input until processes stop
dwait

dwatch
Defines a watchpoint for a variable
dwatch *variable* [*-length byte-count*]
[*-p* | *-g* | *-t*]
[[*-l lang*] *-e expr*] [*-t type*]
Defines a watchpoint for an address
dwatch *-address addr* *-length byte-count*
[*-p* | *-g* | *-t*]
[[*-l lang*] *-e expr*] [*-t type*]

dwhat: Determines what a name refers to
dwhat *symbol-name*

dwhere:
Displays locations in the call stack
dwhere [*-level num-levels*] [*num-levels*]
[*-args*] [*-locals*] [*-registers*]
[*-show_image*] [*-noshow_pc*]
[*-noshow_fp*]
Displays all locations in the call stack
dwhere *-all* [*-args*] [*-locals*]
[*-registers*] [*-show_image*]
[*-noshow_pc*] [*-noshow_fp*]

dworker: Adds/removes thread from workers
dworker { *number* | *boolean* } *group*

errorCodes
Returns a list of all error code tags
TV::errorCodes
Returns or raises error information
TV::errorCodes *number_or_tag*
[*-raise* [*message*]]

exit: Terminates CLI session
exit [*-force*]

expr: Manipulates **dprint** *-nowait* values
TV::expr *action* [*susp-eval-id*] [*other-args*]

focus_groups: Returns list of groups in focus
TV::focus_groups

focus_processes: Returns list of processes in focus
TV::focus_processes [*-all* | *-group*]
[*-process* | *-thread*]

focus_threads: Returns list of threads in focus
TV::focus_threads [*-all* | *-group*]
[*-process* | *-thread*]

group: Gets and sets group properties
TV::group *action* [*object-id*] [*other-args*]

help: Displays help information
help [*topic*]

hex2dec: Converts to decimal
TV::hex2dec *number*

process: Gets and sets process properties
TV::process *action* [*object-id*] [*other-args*]

quit: Terminates CLI session
quit [*-force*]

read_symbols
Reads symbols from libraries
TV::read_symbols *-lib lib-name-list*
Reads symbols from libraries associated with a stack frame
TV::read_symbols *-frame* [*number*]
Reads symbols for all frames in backtrace
TV::read_symbols *-stack*

respond: Provides responses to commands
TV::respond *response command*

scope: Sets/gets internal scope properties
TV::scope *action* [*object-id*] [*other-args*]

source_process_startup: “Sources” a .tvd file when a process is loaded
TV::source_process_startup *process_id*

spurs:
Manages threads using commands modeled after the GDB SPU Runtime System (SPU) library.
spurs *add* [*directory directory-list ...*]

stty: Sets terminal properties
stty [*stty-args*]

symbol: Gets and sets TotalView symbol information
TV::symbol *action* [*object-id*] [*other-args*]

thread: Gets and sets thread properties
TV::thread *action* [*object-id*] [*other-args*]

type: Gets and sets type properties
TV::type *action* [*object-id*] [*other-args*]

type_transformation: Creates type transformation and examines its properties
TV::type_transformation *action*
[*object-id*] [*other-args*]

unalias
Removes an alias
unalias *alias-name*
Removes all aliases

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