

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*]

dappend: Appends list to TotalView variable
dappend *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 sub-routines
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 [*ptset_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-regex* } { { **-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*]

dstepi: Steps assembly, stepping into subfunctions
dstepi [**-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* }

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