

Support Tool Manager

(Version A.19.00)

CSTM Reference Guide

Hewlett-Packard

How Can I Program STM?

STM can execute CSTM commands either directly, or when placed in CSTM command files (scripts.) For Example, you can...

- Pipe commands directly into CSTM:
`echo "selall ; vop querynondes ; verify ; wait ; veractlog" | cstm > outfile`
- Redirect a command file to cstm:
`cstm < script.stm`
- Run a command file within stm:
`File -> Run Command File...`
- Invoke a command file when starting stm:
`xstm -f script.stm`
- Put CSTM commands in `.stmrc` in the directory from which STM is run. (Copy the default `.stmrc` from `/usr/sbin/stm/ui/config/.stmrc`, and then modify it)

How Do I Create a CSTM Script?

A CSTM script can most easily be created by recording commands while running XSTM or MSTM:

`File -> Record Commands -> Start Recording`

How Do I Select Devices?

Groups of devices with common attributes can be selected using the select class functions. For example:
`selclass type disk qualifier hard`

selects all hard disks.

This function uses the **device type** and **device qualifier** identified in Current Device Status:

```
Select device(s)  
currdevstatus
```

Device selections are additive.

CSTM Tips:

- The Current Device Status function lists available tools for a given device, as well as it's device type and qualifier, the status of the last tool run on the device and a recommended action.
- The activity and failure log(s) for the most recent tool(s) run on the selected device(s) can be viewed using:
`lateactlog`
`latefaillog`
respectively.
- If an expected tool seems to be missing... is the proper license installed?
- In an interactive tool in CSTM and MSTM, use Ctrl-C 'Escape to UI' to initiate other tools. Use the 'Attach' command to restore contact with the interactive tool.

CSTM Command Syntax:

- In general, if a command is issued without parameters, then the user will be prompted for all information that can be entered with that command.
- When being prompted for command values: You may type 'cancel' to abort the dialog, 'default' to default values, or 'ok' to accept remaining values.
- When parameters are used, only the information associated with the specified keyword is changed.
- If only one parameter exists for a command, the keyword may be omitted.
- Only the least number of characters that make each CSTM command and keyword unique need to be entered.
- Note: UUT = Unit Under Test; HW = Hardware (Devices)

Notation:

```
[ ] optional  
{ } required  
<> description of text to enter following a keyword  
| or
```

Format:

```
command | abbreviated_command Description  
[keyword {required keyword response}]
```

File Menu Commands:

```
saveconfig | scfg Save Option Settings  
[file {<file name>}]  
restoreconfig | rcfg Restore Option Settings  
[file {<file name>}]
```

```
recordcmdfile | rcf Record Command File  
[description {<description string>}]  
[file {<full file path>}]  
stoprecordcmd | srcf Stop Record Cmd File  
runcmdfile | rncf Run Command File  
[file {<full file path>}] [stop {yes|no}]  
recordoutput | ro Record Session  
[description {<description string>}]  
[file {<full file path>}]  
stoprecordout | sro Stop Record Output  
uiactlog | uial Display UI Activity Log  
readuutconfigfile | ruc  
/var/stm/config/sys/diamond.cfg  
updatetoolinfo | uti Recheck available tools  
stmstartup | ssu Start diamond Daemon  
stmshutdown | ssd Start diamond Daemon  
resetsysactlog | rsa Clear Sys Activity Log  
localmaplog | lml Display HW Scan Log  
localsysactlog | lsal Display System Act Log  
syslog | sl Display 'syslog'  
os | os Escape to HP-UX Shell  
exit | ex | quit Exit STM
```

System Menu Commands:

```
connectsys | cs Connect to UUT  
[system {<system name>}]  
[system add {<system name>}]  
[system delete {<system name>}]  
selcurrentsys | scs Select 'Current' UUT  
[system {<system name>}]  
[system add {<system name>}]  
[system delete {<system name>}]  
disconnectsys | ds Disconnect from UUT  
[system {<system name>}]  
savemap | smap Save HW Map in file  
[file {<full file path>}]  
printmap | pmap Print HW Map  
[printers {<printer name>}]  
remapsystem | rs Re-examine System HW  
maplog | ml Display HW Map Log  
displaylic | dl Display Install'd License  
license | lic Install a License  
[password {<stm license password>}]  
hplicense | hlic Install HP Only License  
[password {<hp license password>}]  
deinstalllic | dlic De-install License  
sysactlog | sal Display System Act Log  
daemonstartup | dsu Start Diag Daemons  
[daemon {<daemon name>}]  
daemonshutdown | dsd Stop Diag Daemons  
[daemon {<daemon name>}]  
daemonkill | dk Kill Diag Daemon  
[daemon {<daemon name>}]  
daemonactlog | dacl Display Daemon Log  
[daemon {<daemon name>}]
```

map Display HW Map

Device Menu Commands:

currdevstatus | **cds** Display Device Status

cleartoolstatus | **cts** Reset Device's Tool Status

select | **sel** Select Device(s)

```
{[-] all|device
{[-] all|<device num>|
<device num> - <device num>}}|
path {[-] all | <path string>}}
```

selall | **sall** Select All Devices

selclass | **scl** Select Class (legacy)

```
[type {all|<device type>}}
[qualifier {all|<device qualifier>}}
[hwpath {<path name>}}]
```

slclass | **sc** Select a Class of Devices

```
[type {<device type/qualifier>}}
[product {<product>}}]
```

seldevtyp | **sdt** Select Same Device Types

selprod | **sp** Select Same Products

seldevabove | **sda** Select Devices Above

seldevbelow | **sdb** Select Devices Below

unselall | **usal** Unselect All Devices

unselclass | **uscl** Unselect Class (legacy)

```
[type {all|<device type>}}
[qualifier {all|<device qualifier>}}
[hwpath {<path name>}}]
```

uslclass | **usc** Unselect Class of Devices

```
[type {<device type/qualifier>}}
[product {<product>}}]
```

setfilter | **uscl** Unselect Class of Devices

Tools Menu Commands:

information | **info** Start Information Tool(s)

infolog | **il** Display Information Log

infoactlog | **ial** Display Info Activity Log

infofaillog | **ifl** Display Info Failure Log

infoinfo | **iinf** Display Info Tool Help

verify | **ver** Start Verify Tool(s)

veractlog | **val** Display Verify Act Log

verfaillog | **vfl** Display Verify Fail Log

verinfo | **vinf** Display Verify Tool Help

diagnose | **dgn** Start Diagnose Tool(s)

diagactlog | **dal** Display Diagnose Act Log

diagfaillog | **df1** Display Diagnose Fail Log

diaginfo | **dinf** Display Diag Tool Help

exercise | **exc** Start Exercise Tool(s)

exeractlog | **eal** Display Exercise Act Log

exerfaillog | **ef1** Display Exercise Fail Log

exerinfo | **einf** Display Exercise Tool Help

firmwareupdate | **fwu** Start FW Update Tool

fwupdateactlog | **fal** Display FW Upde Act Log

fwupdatefaillog | **ff1** Display FW Upd Fail Log

fwupdateinfo | **finf** Display FW Update Help

experttool | **xt** Start Expert Tool

expactlog | **xal** Display Exp Tool Act Log

expfaillog | **xf1** Display Exp Tool Fail Log

expinfo | **xinf** Display Exp Tool Help

runutil | **ru** Run a Utility Tool

```
[utility {<utility name>}}]
```

utilactlog | **ual** Display Utility Activity Log

```
[utility {<utility name>}}|
device {<device num>}}]
```

utilfaillog | **ufl** Display Utility Failure Log

```
[utility {<utility name>}}|
device {<device num>}}]
```

utilinfo | **uinf** Display Utility Help

```
[utility {<utility name>}}]
```

lateactlog | **lal** Display Last Run Tool's Act Log

latefaillog | **lfl** Display Last Run Tool's Fail Log

aborttool | **abt** Abort Tool(s) on Selected Devs

suspendtool | **st** Suspend Tool(s)

resumetool | **ret** Resume Tool(s)

killtool | **klt** Kill Tool that wouldn't abort

abortutil | **abu** Abort Utility

```
[utility {<utility name>}}]
```

killutil | **klu** Kill Utility that won't abort

```
[utility {<utility name>}}]
```

displayquery | **dq** Display a Pending Query

attach | **at** Attach to Escaped From Tool

```
[tool {<tool name>}}]
```

wait Suspend UI Till Tools Complete

Options Menu Commands:

infoptions | **iop** Change Info Tool Options

```
[gentactlog {yes|no}}
[reporterrors|reportwarnings|reportinfo]
[queries {yes | no}}]
```

veroptions | **vop** Change Verify Tool Options

```
[execctrl]
[iterations {<loop count>}}|
time{<minutes>}|continuously}
[behavior]
[errorexit|errorcount {<errors allowed
before test termination>}}]
[testcoverage]
[maxcoverage|medcoverage|mincoverage]
[gentactlog {yes|no}}
[reporterrors|reportwarnings|reportinfo]
[queryallow|querynondes|querydes]
```

diagoptions | **dop** Change Diagnose Tool Options

```
[execctrl]
[iterations {<loop count>}}|
time{<minutes>}|continuously}
[isolation]
[fru|component]
[testcoverage]
[maxcoverage|medcoverage|mincoverage]
[gentactlog {yes|no}}
[reporterrors|reportwarnings|reportinfo]
[queryallow|querynondes|querydes]
```

exeroptions | **eop** Change Exercise Options

```
[execctrl]
[time {<minutes>}}] [continuously]
[behavior]
[errorexit|errorcount {<errors allowed
before test termination>}}]
[testcoverage]
[maxcoverage|medcoverage|mincoverage]
[gentactlog {yes|no}}
[reporterrors|reportwarnings|reportinfo]
[queryallow|querynondes|querydes]
```

fwupdateoptions | **fop** Change FW Upd Options

```
[file {<update file>}}]
[gentactlog {yes|no}}]
[reporterrors|reportwarnings|reportinfo]
```

expoptions | **xop** Change Expert TI Options

```
[gentactlog {yes|no}}]
[reporterrors|reportwarnings|reportinfo]
```

utiloptions | **uop** Change Utility Options

```
[gentactlog {yes|no}}]
[reporterrors|reportwarnings|reportinfo]
```

launchoptions | **lop** Change Debug Options

```
[debugmode {yes|no}}]
[sourcedir {<path to source code>}}]
[motifflag {yes|no}}]
[display {<address of display machine>}}]
[testmode {yes|no}}]
[filename {<systest input file>}}]
```

mapoptions | **mop** Change Map Display

```
[maprefresh {<seconds>}}]
[textmap {yes|no}}]
[showpath {yes|no}}]
[pathwidth {<path field width>}}]
[showprod {yes|no}}]
[showqual {yes|no}}]
[prodwidth {<product field width>}}]
[showtool {yes|no}}]
[showtimeused {yes|no}}]
[showtimetogo {yes|no}}]
[showloopsdone {yes|no}}]
[showloopstogo {yes|no}}]
[showstatus {yes|no}}]
[statuswidth {<status field width>}}]
```

generaloptions | **gop** Change General Options

```
[queries {yes|no}}]
[confirmation {yes|no}}]
[hostinfo {yes|no}}]
[termwait {yes|no}}]
[cstmpager {<pager>}}]
[printers {<printer name>}}]
[uiactivitylog]
[reporterrors]
[reportwarnings]
[reportinfo]
[launchoptions {yes|no}}]
```

Help Menu Commands:

help Display Help

```
{<command>}
```

version | **vers** Display STM Version