

**1 Run Analysis**`-collect` Run analysis of certain type

performance-snapshot

hotspots

anomaly-detection

memory-consumption

uarch-exploration

memory-access

threading

hpc-performance

io

gpu-offload

gpu-hotspots

fpga-interaction

system-overview

platform-profiler

Run Hotspots analysis on application
`vtune -collect hotspots /app`

Action Options:

`-r, -result-dir=<str>` Specify result directory path`-target-pid=<uint>` Specify a running process to attach to by PID`-target-process=<str>` Specify a running process to attach to by process name`-finalization-mode=full/fast/deferred/none` Select finalization type to perform after collection, default is fast`-resume-after=<double>` Specify time (seconds) to delay collection start after application start`-search-dir=<str>` Specify directory(-ies) for binary and symbol files search, use multiple times if necessary`-source-search-dir=<str>` Specify directory(-ies) for source files search, use multiple times if necessary`vtune <-action> [-action-option] [-global-option] [[--] <target> [target-options]]``-app-working-dir=<str>` Specify application working directory`-target-system=<str>` Select target system for remote collection, use `ssh:user@target` for SSH`-start-paused` Start collection paused to resume later`-k, -knob=<str>` Apply knob, an analysis-specific modifier**2 Run Custom Analysis**`-collect-with` Run custom collection with collector

runsa Hardware event-based sampling

runss User-mode sampling

Action Options:

`-k, -knob=<str>` Apply knob, an analysis-specific modifierSee available knobs for the runsa collector
`vtune -help collect-with runsa`

See available events on the target PMU

`vtune -collect-with runsa -knob event-config=? <target>`**3 Control Running Analysis**`-command` Issue command to running collection

pause Pause collection

resume Resume collection

stop Stop collection

status Print current status

mark Place reference timestamp in data

Action Options:

`-r, -result-dir=<str>` Specify collection to issue command to by providing result directoryResume collection being performed into result r000hs
`vtune -command resume -r r000hs`**4 Resolve Result**`-I, -finalize` Re-finalize an existing result

Action Options:

`-r, -result-dir=<str>` Specify result to finalize`-finalization-mode=full/fast/deferred/none` Select finalization mode to use, default is fast`-search-dir=<str>` Specify directory(-ies) for new binary and symbol search, use multiple times if necessary`-source-search-dir=<str>` Specify directory(-ies) for new source files search, use multiple times if necessary**5 Get a Report**`-R, -report` Generate CLI report of type

affinity Thread binding to sockets, cores

callstacks CPU/wait time for callstacks

gprof-cc CPU/wait time in gprof format

hotspots Detailed view by grouping

hw-events Hardware events

platform-power-analysis CPU sleep/wake/frequency data

summary Overall performance data

top-down Call tree, CPU/wait time by func

Action Options:

`-r, -result-dir=<str>` Select result to show report for`-group-by=<str>` Show report with specific groupingSee available groupings for report of type hotspots
`vtune -R hotspots -r r000hs -group-by=?``-limit=<int>` Show limited number of items in output`-s, -sort-asc=<str>` Sort data in ascending order for this column`-S, -sort-desc=<str>` Sort data in descending order for this column**? Get More Help**`vtune -help` Print CLI help`vtune -help <action>` Get help for action and all applicable action-options`vtune -help collect <analysis>` Get help for analysis type and all applicable knobs (analysis-specific modifiers)Show description and knobs for threading analysis
`vtune -help collect threading`