

# Oracle X86 Diagnostics Commands Quick Reference Guide

## UEFI Diagnostic CLI Commands

To use these commands, open UEFI diagnostics in manual mode.

**TABLE 1** UEFI Diagnostics CLI Commands

Task	Command
Display installed UEFI tables.	<code>cfgtbl</code>
Run tests and display results about host CPUs (processors).	<code>cpu { cpuid   info   model   speed   simd   top   sysregs   idt   memcfg }</code>
Run tests on floating-point units (FPU) in x64 processors.	<code>fpu</code>
Display available graphics modes or tests graphics modes.	<code>graphics</code>
Run tests and display results about the host memory subsystem.	<code>memory { test   info }</code>
Display Ethernet interfaces or run external loop-back tests.	<code>network</code>
Display the date and time in 24-hour format.	<code>rtc</code>
Run tests and display information about system storage devices.	<code>storage { info   mst   rrt   srt   rwv }</code>
Run tests and display information about the system.	<code>system { acpi   info   inventory   smbios   cpusockets   pelink }</code>
Display vendor and device IDs, and access status registers in the Trusted Platform Module (TPM) chip.	<code>tpm</code>
Display information on USB root hubs and devices.	<code>usb</code>

## HWdiag Commands

To use the HWdiag commands:

1. Open the Oracle ILOM CLI in restricted mode.
2. Type the main command followed by the subcommand and any options.
  - The main command identifies a component type.
  - The subcommand specifies an action, and might specify an individual component or an entire range of components.
  - The options are listed in Table 3.

**TABLE 2** HWdiag Commands

Main Command	Subcommand	Options	Description
cpld			Power and CPLD commands.
	reg		Dump CPLD registers.
	vr_check		Print voltage regulator status.
	log		Read and clear FPGA event log and trigger an event in log.
cpu			Display CPU information.
	info all  <i>cpu</i>	-r	Dump CPU devices.
fan			Fan test/utilities.
	get	-m	Display fan RPM.
	info		Display fan presence information.
	testpsu		Check PSU (power supply) fans.
	test chassis fans		Check chassis fans.
gpio			
	get <i>gpio_pin</i>	-r	Get information about specific pins.
i2c			
	scan all  <i>bus</i>		Display all accessible i2c devices.
	test all  <i>bus</i>		Test connectivity of all platform i2c devices. This test returns a pass or fail.
led			Get information about LEDs.
	get all  <i>led</i>		Display the state of LEDs.
	info all   <i>led</i>		Display information about LED registers.
mem			Display memory (DIMM) information.
	info all  <i>dimmm name</i>		Display memory configuration.
	spd all  <i>dimmm name</i>	-r	Display DIMM SPD information, which includes things like size, speed, and voltage. The information displayed varies according to manufacturer.
pci			PCIe tests and utilities.

**TABLE 2** HWdiag Commands (Continued)

Main Command	Subcommand	Options	Description
	dump		Read PCIe registers. dump <socket> <bus> <dev> <func> [std   ext]   [<offset> <count>] <ul style="list-style-type: none"> <li>• std reads the entire space</li> <li>• ext reads the extended space</li> <li>• &lt;offset&gt;&lt;count&gt; specifies a single register</li> </ul>
	info all   <i>device</i>	-r	Display PCIe link information for all, or for a single device.
	lspci		Display all PCIe devices, Linux style.
	read		Read the specified PCIe register. read <socket> <bus> <dev> <func> <offset>
power			Display power information.
	get		Display sensor readings. get amps   volts   watts all   <i>sensor</i> . sensor identifies an individual sensor.
	info all   <i>sensor</i>		Display information about sensors.
system			
	summary		Display system summary.
	fabric test all		Tests the system fabric, including QPI bus speed, PCIe link speed, and memory frequency.
	info		Display system configuration information.
	port80	-m	Display host boot progress by monitoring port 80. The default interval is 5ms.
	rtc		Display the real time clock (RTC).
	thermal	-m, -r	Display system thermal information, including temperatures, fan speeds, and power.
	version		Display the version of system components.
temp			Display temperatures.
	get all   <i>sensor</i>		Display temperature sensor readings.
	info all   <i>sensor</i>		Display information about system sensors.

**TABLE 3** HWdiag Options

Option	Long	Description
-h	help	Display help
-l	log <filename>	Enable HWdiag to start logging to filename. Use -t to add time stamp to logging.
-t	timestamp	Add timestamp to logging. Use with ?l option.
-m	monitor <.1 sec>	Set monitoring interval in increments of tenths of a second (.1 second). Overrides current monitoring interval.
-r	raw	Modify HWdiag output for easier parsing.
-i	interactive	Prompts when used with a main command.

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