

# OFFLINE DIAGNOSTIC ENVIRONMENT (ODE)

## Quick Reference Guide

Hewlett-Packard

There are two interfaces, the command line and the Test Module Manager (TMMGR).

### How Do I Start ODE?

**ISL> ODE <cr>** The command line interface.  
**ISL> ODE menu <cr>** The TMMGR interface.

### ODE Command Line Interface

#### How do I use the command line interface?

1. Identify diagnostic or utility to execute:  
**Ls <cr>**
2. Select diagnostic or utility:  
**<tm\_name> <cr>**
3. Run diagnostic or utility command.  
**run <cr>** To run diagnostics.  
**help <cr>** To get diagnostic or utility specific command.  
**<command\_name><cr>** To run command.

#### ODE Command Syntax:

##### Notation:

- | or
- [] items within brackets are optional
- { } denotes repetition zero or more times

<> the enclosed symbol is a non-terminal  
; command separator

#### Basic Commands:

**HELP [<name>]** display help on various commands.  
<name> the name of a command.

**LS [ALL]** List ODE modules available on the boot medium.  
**ALL** List all ODE modules on the boot media.

**Example:**  
To find a Test Module to run, type **ls <cr>**.

**<Module\_Name>** Load and initialize a module by typing its name. See **LS**.

**MENU** Launch ODE's **TMMGR** interface.

**RUN {<module\_name>}**  
Run a module (after setting desired environment variables).  
<module\_name> The name of a Test Module obtained from the **LS** command.

**Control-Y|Control-C** Abort an ODE command; pause a module run.

**RESUME** Restart a paused module.

**EXIT [ALL]** Return to next higher level prompt.  
**ALL** Return to the IPL prompt.

**LOAD <module\_name> [<address>]**  
Load a Test Module from the LIF into memory.  
<module\_name> The name of a Test Module obtained from the **LS** command.  
<address> Hexadecimal memory address to load Test Module into.

**Example:**  
To load MEMTEST into memory from the boot device, type:  
**LOAD memtest <cr>**

**UNLOAD <module\_name>{ <module\_name>}**  
Remove a Test Module from memory.  
<module\_name> The name of a previously loaded Test Module.

#### **VERSION [ALL]**

List the versions of files loaded into memory.  
**ALL** List the version of all files loaded into memory.

#### Log Commands:

**CLEARLOG** Clears the content of the message log.

**DISPLOG [<message type>] [<range>] | [<number>]**  
After running a module, display contents of a log.

<message type> **ERRNUM** (ONE-LINE MESSAGES containing error numbers), **ERROR** (ALL ERROR MESSAGES logged by the ODE), or **ISOLATION** (for ALL MESSAGES BUT INFORMATION MESSAGES logged by ODE).

<range> Specifies the number of error messages you wish to view as decimal number/decimal number ( e.g. 1/5).

<number> A decimal number preceded by an optional + or - sign. The + sign will display the first N messages, the - sign will display the last N messages, and no sign displays message N.

#### **Example:**

To display the first 10 errors type:  
**displog error 1/10<cr>** or **displog error +10<cr>**

#### Environmental Variable Commands:

**SHOWSTATE** Display ODE environment variables.

**DEFAULT** Reset environment variables to default state.

#### **LOOP [<loop count>]**

Run a test this many times.  
<loop count> Either a decimal number, or carriage return ( to loop forever).

#### **ERRPRINT [ON|OFF]**

Print low-level error messages to the console.

#### **ERRNUM [ON|OFF]**

Print one-line, numbered errors to the console.

#### **ERRPAUSE [ON|OFF]**

Pause module upon error detection.

#### **ERRONLY [ON|OFF]**

Print ONLY error messages; disable non-error and isolation message printing.

#### **INFOPRINT [ON|OFF]**

Print informational messages to the console.

#### **ISOPRINT [ON|OFF]**

Print fault isolation messages to the console.

#### **LOGSIZE [<size>]** Set the size of a message log.

<size> A decimal number from 128 to 16384.

### **Common Diagnostics and Utilities:**

<b>MAPPER</b>	System mapping utility.
<b>IOTEST</b>	Diagnostics that runs ROM-based selftests on I/O modules.
<b>PERFVER</b>	Diagnostics that runs ROM-based selftests on peripherals.
<b>README</b>	Utility that displays README files to the console.

### **Test Module Manager (TMMGR) Interface**

#### **How do I start the TMMGR ?**

**ISL> ODE menu<cr>**

#### **How do I use TMMGR ?**

1. Select all module(s) to test:  
**select ALL <cr>**
2. Run diagnostic on selected module(s):  
**run <cr>**
3. View log if test fails:  
**log <cr>**

#### **How do I select/deselect a test within a module?**

1. Select a module index number:  
**<num> <cr>**
2. Select test section:  
**select <num> <cr>**
3. Deselect test section:  
**select -<num> <cr>**

### **TMMGR Screens:**

The word "screen" refers to one of the following:

**System Screen** The first "screen" displayed to the user after TMMGR is invoked. It lists all modules in the system.

**Test Screen** Displays a list of tests for a selected module. Enter from the system screen by typing **<num> <cr>**.

**Logging Screen** Displays a log of all test activity. To enter, type **LOG** at any prompt.

### **Environment Screen**

Displays a list of environment variables that can be modified by the user. To enter, type **ENV** at any prompt.

### **TMMGR Command Syntax:**

#### **Notation:**

	or
[]	items within brackets are optional; item to the left can be repeated 0 or more times
{ }	groups items together
;	command separator

### **Basic Commands:**

#### **SELECT {[ - ] { ALL | <num> | <range> } ... }**

<num> Select modules to test or sections to run. an integer indicating any valid selection number.

<range> a range of selection numbers of the form A/B where A<B.

- deselect module or test.

ALL select all modules and all tests.

#### **Example:**

To select modules or tests 1, 4, 6, 7, 8, and 9, enter:  
**select 1 4 6 7 8 9 <cr>** or **select 1 4 6/9 <cr>**

**RUN** execute tests for selected modules or execute currently selected tests.

**LOG** go to the logging screen.

**FIRST** display the first page of a screen.

**LAST** display the last page of a screen.

**NEXT** display the next page of a screen.

**PREV** display the previous page of a screen.

**REFRESH** redraw the current console display.

**EXIT [ALL]** Return to the previous screen.

ALL exit to ISL or the IPL prompt.

**HELP [<name>]** Display help on various commands.  
<name> The name of a command.

**INFO <num>** Display general information about a module or test.  
<num> A valid module or test section number.

**ENV** go to the environment screen.

### **Environment Screen Commands:**

**rows <integer>** number of test rows supported by the console.

<integer> must be "12" or greater.

**scroll ON|OFF** to enable or disable scrolling.

**loop <integer> | FOREVER** the number of times to loop on test execution.

**term HP | UNKNOWN** specify the type of terminal (HP or UNKNOWN).

**errcount <integer>** stop test execution after <integer> errors. A value of 0 indicates infinity.