# OpenCPI HSMC Loopback Stratix IV (alst4) Test App Guide

#### Version 1.5

#### Revision History

Revision	Description of Change	Date
v1.4	Converted to application from unit test structure.	9/2018
v1.5	Added more commands and expanded text	4/2019

## 1 Description

Intended to test HSMC slots on the alst4 platform.

## 2 Hardware Setup

x86 machine with the Stratix IV PCIE card with both HSMC slots populated with a Loopback HSMC Card[1].

### 3 Prerequisites

The prerequisites are the empty assembly with the container cnt\_hsmc\_loopback\_card\_hsmc\_alst4\_a\_hsmc\_alst4\_b built for alst4 platform.

To build the container navigate to the empty assembly /hdl/assemblies/empty and run the command:

make HdlPlatforms=alst4 Containers=cnt\_hsmc\_loopback\_card\_hsmc\_alst4\_a\_hsmc\_alst4\_b

#### 4 Execution

#### 4.1 OCPI\_LIBRARY\_PATH Requirements/Considerations

The OCPI\_LIBRARY\_PATH environment variable must be set to <assets project directory>/artifacts.

#### 4.2 Command(s)

Execution must occur from within the applications/hsmc\_loopback\_test directory using the following command:

./<target-dir>/hsmc\_loopback\_test

#### 5 Verification

Application exit status indicates success (status of 0 indicates success, status of 1 indicates failure, status of 100 indicates test unexpectedly could not complete). Either PASSED or FAILED is also printed to stdout/stderr, respectively. To get the exit code use (echo \$?) immediately after the last command.

## References

[1] Terasic - Components - Extras - HSMC Debug & Loopback Connector Package https://www.terasic.com.tw/cgi-bin/page/archive.pl?Language=English&No=495