

OpenCPI

AD9361 DAC Test App Guide (plutosdr platform)

OpenCPI Release: v2.3.4

Revision History

Revision	Description of Change	Date
v1.7	Initial release	4/2020

1 Description

This application is intended to perform a hardware-in-the-loop test of the `ad9361_dac.hdl` worker.

2 Hardware Portability

This application is specific to the `plutosdr` platform.

3 Execution

3.1 Prerequisites

The following must be true before application execution:

- The following assets are built and their build artifacts (FPGA bitstream file/shared object file) are contained within the directory list of the `OCPI_LIBRARY_PATH` environment variable.
 - for `plutosdr/adi_plutosdr0_31` HDL/RCC platforms:
 - * `ad9361_1r1t_test_asm/cnt_1rx_1tx_thruasm_mode_2_cmos_plutosdr` assembly/container
 - * `ad9361_config_proxy.rcc` (from assets project)
 - * `iqstream_max_calculator.rcc` (from assets project)
 - * `file_write.rcc` (from core project)
- The current directory is the `applications/ad9361_dac_test` directory.

3.2 Command(s)

```
./<target-dir>/ad9361_dac_test
```

4 Verification

An application exit status of 0 indicates success, and non-zero indicates failure. This application is always expected to fail as it is currently written.