

Outer Tracker Upgrade Group Meeting

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IP2I

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News

1. Eva prepared the first version of the Instruction manual.
2. New versions of Ph2_ACF, GIPHT and POTATO are out.
3. Long duration of Tests at our test benches.
4. POTATO Bootcamp
5. Houmani is testing the new Optical Modules.

Reception Test

1. We do not need the Raspberry pi
2. I performed it without the Raspberry Pi. I could run the test but it did not improve the situation.
3. I tested without the switch to check if that is the bottleneck.
4. Need to go through the log to understand which tests are taking longer time.

Problems with FC7

1. FPGA's Multi-Gigabit Transceivers (MGTs) are expecting a specific reference clock frequency (like 40 MHz or 160 MHz mapped from the CDCE jitter cleaner)
2. The configuration points to the wrong source, the internal PLLs will never lock.
3. This is exactly why the status bitmask stayed at (TX/RX/MGT all failed) and why pulling the FMCs didn't change the log output—the transceivers were essentially paralyzed waiting for a valid clock signal.

Cold Test

First time in Lyon

News

1. Dee5 with 8 modules taken out of the Fridge.
2. Problem with 3 FC7s. We could not run optical communication test.
3. Now, we have total 9 FC7s.
4. We received template XML file for the PS modules.

Ongoing work & To do

Cold Test, DCS

