

wibtools - Bug #23567

Bug # 23554 (Resolved): Triggers but no fragments

BNL WIBs sending data not properly formatted

11/07/2019 07:02 PM - Iker de Icaza Astiz

Status:	New	Start date:	11/07/2019
Priority:	Urgent	Due date:	
Assignee:	Mayank Tripathi	% Done:	80%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	10.00 hours

Description

Hi Mayank

There seems to be an issue with the optical communication with WIB's and TPC.

Ideally there should be a check in the code to make sure the data being send along is OK. Granted, I have no idea if this is feasible.

Besides troubleshooting the cause for this, please also make an entry in the wiki to document the cause and solution.

This is related to issue [#23554](#)

Feel free to change assignee.

History

#1 - 11/07/2019 07:11 PM - Jose Ignacio Crespo Anadon

- Subject changed from BNL WIBs not sending data or not properly formatted to BNL WIBs sending data not properly formatted

#2 - 11/08/2019 10:17 AM - William Badgett

I suggest trying the older WIB we used in the VST last year with a single QSFP. We have seen "real" fake data from the older WIB, but not (so far) from the production WIB currently in place

#3 - 12/01/2019 09:23 AM - Mayank Tripathi

- % Done changed from 0 to 80

Problems: 1) BNL WIBs not sending Data.
2)BNL WIBs sending data but not properly formatted.

Cause and solution for 1) The PTB not being tight enough on either the PTC or the WIB caused the BNL WIB to stop sending data. After trying to snug them in, the data was received fine.

Cause and solution for 2) Even when the data is received some channels showed 0xBAD, which is a holdover from WIB testing that doesn't affect the data and only is in WIB channel ID mode. There were some other unexpected elements, like in FEMB ID 0x0007 we could see 0x5BC and 0x0038. Jack expects a bit of weirdness in the channel ID mode with this FW. This will most likely be fixed in the next firmware version.