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### Log file for this test: /afs/hep.wisc.edu/cms/RCTlog/daffodil/RC_2004-08-26
.log ### Location of log file

#####
##### RC Test 5ab - Backplane data paths #####
### Test run on 2004-08-26_18:00:03
### HOST computer is: daffodil
### Run in vmedia kumac: rc_backplane_path_slot3.txt
Please fill in the backplane data paths CHECKLIST.
#####

!!!! RC to be tested has to be in slot 3 !!!! IMPORTANT!
Device to open: /dev/btp96
Device to open: /dev/btp160 SBS successfully booted and
Device to open: /dev/btp64 talked to the cards in the crate
Enter command (help for usage)> The CCC, 1 EIC in slot 2, 6 RCs and
RCT boot succeeded with 9 cards. the RC to be tested in slot 3 should be plugged in
Enter command (help for usage)> Enter command (help for usage)> Enter command (h
elp for usage)>
Zero memories first.
Device to open: /dev/btp96
Device to open: /dev/btp160
Device to open: /dev/btp64
RCTCrate::initialize() : vmeReset() successful
RCTCrate::initialize() : Defined RCTClockControlCard 10000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 12000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 14000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 16000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 18000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 1b000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 1d000000
RCTCrate::initialize() : Defined RCTReceiverCard with address 1f000000
RCTCrate::initialize() : Defined RCTElectronIsolationCard with address 15000000
rctCrateTest: initialize() succeeded
Cards in the crate are: 54ba
RCTCrate::doZeroPatternTest() : Loading RC (f500, 12000000)
RCTCrate::doZeroPatternTest() : Verifying RC (f500, 12000000)
RCTCrate::doZeroPatternTest() : Loading RC (fa00, 14000000)
RCTCrate::doZeroPatternTest() : Verifying RC (fa00, 14000000)
RCTCrate::doZeroPatternTest() : Loading RC (0, 16000000)
RCTCrate::doZeroPatternTest() : Verifying RC (0, 16000000)
RCTCrate::doZeroPatternTest() : Loading RC (f600, 18000000)
RCTCrate::doZeroPatternTest() : Verifying RC (f600, 18000000)
RCTCrate::doZeroPatternTest() : Loading RC (f700, 1b000000)
RCTCrate::doZeroPatternTest() : Verifying RC (f700, 1b000000)
RCTCrate::doZeroPatternTest() : Loading RC (fe00, 1d000000)
RCTCrate::doZeroPatternTest() : Verifying RC (fe00, 1d000000)
RCTCrate::doZeroPatternTest() : Loading RC (f800, 1f000000)
RCTCrate::doZeroPatternTest() : Verifying RC (f800, 1f000000)
RCTCrate::doZeroPatternTest() : Loading EIC (b100, 15000000)
RCTCrate::doZeroPatternTest() : Verifying EIC (b100, 15000000)
rctCrateTest: All tests successful
Now start vmedia script rc_backplane_path_slot3

*****
*** this is vmedia script rc_backplane_path_slot3.txt ***
*****
for this test, the rc has to be in slot 3 Important
Continue <return> ? Exit <Ctrl-D> ? type <return> here
this eic has barcode
Device to open: /dev/btp96
Device to open: /dev/btp160
Device to open: /dev/btp64

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Check that the verification doesn't fail. When it does, leave the script (Ctrl-D) and vmedia (exit) and redo >run_RC_test5b

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18000006 -> F600 Compare this number with the RC bar code
Continue <return> ? Exit <Ctrl-D> ? type <return> here
for this test, the crate has to be loaded with all seven rc's Important
12000006 -> F565
14000006 -> FA05
16000006 -> 0060
18000006 -> F600
1B000006 -> F760
1D000006 -> FE00
1F000006 -> F820
12000000 -> 0202
14000000 -> 0202
16000000 -> 0202
18000000 -> 0202
1B000000 -> 0202
1D000000 -> 0202
1F000000 -> 0202
initial setup done.
put a 68-pin cable from rc 2 j4 to rc 3 i4 Follow these directions, no need to first power down
Continue <return> ? Exit <Ctrl-D> ? type <return> here
backplane r0, should see 7f -- next ?
Continue <return> ? Exit <Ctrl-D> ?
backplane r0, should see 00 -- next ?
Continue <return> ? Exit <Ctrl-D> ?
backplane r0, should see double pulse. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
cable r0, should see 7f. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
cable r0, should see 00. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
cable r0, should see double pulse. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
backplane r1, should see 7f. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
backplane r1, should see 00. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
backplane r1, should see double pulse. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
cable r1, should see 7f. -- next ?
Continue <return> ? Exit <Ctrl-D> ?
cable r1, should see 00. -- next?
Continue <return> ? Exit <Ctrl-D> ?
cable r1, should see double pulse. hit return to zero the memory and exit
Continue <return> ? Exit <Ctrl-D> ? type <return> here
VMEDIA> exit type 'exit' here
Bye
```

These values should be read back

Repeat:

Check the signals as specified in the checklist - when done type <return> for next signal

Check 4 bits on U125 and 3 bits on U126; pattern 7F should result in 111 1111, i.e. a "1" on each of the 7 pins; pattern 00 should result in 000 0000, i.e. a "0" on each of the 7 pins; double pulse means seeing 1010 on EACH of the 8 pins

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##### RC Test 5b End #####
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