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Connect to experiment hat-daq...
OK
Init hardware...
11:14:43 INFO feHatTdcMudp.cxx:58: Initializing FE: feHatTdcMudp_00
11:14:43 INFO feHatTdcMudp.cxx:62: User specified FE index: 0
11:14:43 WARN HaTpcReadout.cpp:68: Initializing...
11:14:43 WARN HaTpcReadout.cpp:106: Initializing scripts...
11:14:43 DEBUG ScriptSetExternal.cpp:49: Loaded script file "/root/macros/20210322/tdcm_test.txt": 1 lines.
11:14:43 DEBUG ScriptSetExternal.cpp:49: Loaded script file "/root/macros/20210322/fem_cold_start.txt": 63 lines.
11:14:43 DEBUG ScriptSetExternal.cpp:49: Loaded script file "/root/macros/fem_pedrun.txt": 189 lines.
11:14:43 DEBUG ScriptSetExternal.cpp:49: Loaded script file "/root/macros/fem_run.txt": 155 lines.
11:14:43 DEBUG ScriptSetExternal.cpp:49: Loaded script file "/root/macros/fem_stop.txt": 36 lines.
11:14:43 DEBUG HaTpcReadout.cpp:141: List of loaded scripts:
11:14:43 DEBUG HaTpcReadout.cpp:143: ColdStart
11:14:43 DEBUG HaTpcReadout.cpp:143: InternalPedestals
11:14:43 DEBUG HaTpcReadout.cpp:143: StartAcquisition
11:14:43 DEBUG HaTpcReadout.cpp:143: StopAcquisition
11:14:43 DEBUG HaTpcReadout.cpp:143: Test
11:14:43 WARN HaTpcReadout.cpp:93: Initializing TDCM handlers...
11:14:43 INFO TdcMHandler.cpp:68: Using: _maxUdpWaitCalls_ = 0
11:14:43 INFO TdcMHandler.cpp:71: Using: _nbFramesPerRequest_ = 8
11:14:43 INFO TdcMHandler.cpp:74: Using: _debugMode_ = 0
11:14:43 INFO TdcMHandler.cpp:104: Socket size has been set to 409600 ( provided: 204800 )
11:14:43 DEBUG UdpConnector.cpp:104: TdcMHandler: 0x347f450
11:14:43 INFO TdcMHandler.cpp:87: Target Address: 192.168.10.1:1122 / Socket Index: 9
11:14:43 INFO TdcMHandler.cpp:88: Buffer size: 204800
11:14:43 INFO TdcMHandler.cpp:88:
11:14:43 INFO TdcMHandler.cpp:93: Testing UDP connection...
11:14:43 INFO UdpConnector.cpp:183: be version
11:14:43 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 Server: Software V3.32 Compiled Apr 13 2021 at 11:30:37 with Vivado 2015.4
11:14:43 INFO TdcMHandler.cpp:47: Connexion is active!
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Saved Events" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Bytes" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Frames" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Builder Errors" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Missed Frames" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "Delay Between Frames" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Adding "UDP Read Fail" to monitor.
11:14:43 INFO TdcMMonitor.cpp:63: Added TDCM: TDCM@192.168.10.1:1122
11:14:43 INFO HaTpcReadout.cpp:100: Initialized.
11:14:43 INFO HaTpcReadout.cpp:88: Running cold start...
11:14:43 WARN feHatTdcMudp.cxx:81:
OK
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IP address change in ODB:
No code recompiling was required

TDCM responded immediately

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11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Monitoring: unsupported yet.
11:15:24 INFO UdpConnector.cpp:183: fe list 12 thr
11:15:24 WARN UdpFrameDecoder.cpp:96: FrameType::Monitoring_Frame is not supported yet.
11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Monitoring: unsupported yet.
11:15:24 INFO UdpConnector.cpp:183: fe list 13 thr
11:15:24 WARN UdpFrameDecoder.cpp:96: FrameType::Monitoring_Frame is not supported yet.
11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Monitoring: unsupported yet.
11:15:24 INFO UdpConnector.cpp:183: fe list 14 thr
11:15:24 WARN UdpFrameDecoder.cpp:96: FrameType::Monitoring_Frame is not supported yet.
11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Monitoring: unsupported yet.
11:15:24 INFO UdpConnector.cpp:183: fe list 15 thr
11:15:24 WARN UdpFrameDecoder.cpp:96: FrameType::Monitoring_Frame is not supported yet.
11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Monitoring: unsupported yet.
11:15:24 INFO UdpConnector.cpp:183: be restart
11:15:24 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 Tdc(0) Reg(5) <- restart done
11:15:26 DEBUG TdcHandler.cpp:165: Waiting for 1000ms...
11:15:27 INFO UdpConnector.cpp:183: be isobus 0x6C
11:15:27 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 Tdc(0) Reg(5) <- 0x0000006c ( WCK_SYNCH_SCA_START
11:15:27 INFO UdpConnector.cpp:183: be trig_ena 2
11:15:27 INFO TdcHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 Tdc(0) Reg(6) <- 0x2000
Running 1
11:15:28 INFO feHatTdcUdp.cxx:206: ----- TDCM@192.168.10.1:1122 -----
11:15:28 INFO feHatTdcUdp.cxx:207: -----

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----- TDCM@192.168.10.1:1122 -----
TDCM@192.168.10.1:1122: Saved Events | 7 | 1.4881/s | 0.35/Call |
TDCM@192.168.10.1:1122: Bytes | 17.342K | 4.22321K/s | 867.1/Call |
TDCM@192.168.10.1:1122: Frames | 9 | 1.98413/s | 0.45/Call |
TDCM@192.168.10.1:1122: Builder Errors | 0 | 0/s | 0/Call |
TDCM@192.168.10.1:1122: Missed Frames | 0 | 0/s | 0/Call |
TDCM@192.168.10.1:1122: Delay Between Frames | 4.132K | 1.6248K/s | 206.6/Call |
TDCM@192.168.10.1:1122: UDP Read Fail | 1.67887M | 366.498K/s | 1/Call |
TDCM@192.168.10.1:1122: UDP Success Rate: 0.000535848%

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No error while filling up event:
*No duplicated waveform, no
unrecognised data*

No missed frames:
The sequence numbers
requested by the FE always
matches the ones send by the
TDCM

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1:16:27 DEBUG TDCM@192.168.10.1:1122: Waiting for the DAQ to be on paused state...
1:16:28 DEBUG feHatTdcMudp.cxx:160: Draining the TDCMs buffer before stopping the DAQ...
1:16:29 DEBUG feHatTdcMudp.cxx:160: TDCM@192.168.10.1:1122: DAQ is free!
1:16:30 DEBUG feHatTdcMudp.cxx:160: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) Reg(6) <- 0x0
1:16:31 DEBUG feHatTdcMudp.cxx:160: TDCM@192.168.10.1:1122: Waiting 1 sec to dry DAQ...
1:16:32 WARN TdcMHandler.cpp:160: TDCM@192.168.10.1:1122: Waiting 1 sec to dry DAQ...
1:16:32 DEBUG feHatTdcMudp.cxx:164: TDCM@192.168.10.1:1122: Waiting 1 sec to dry DAQ...
1:16:32 INFO feHatTdcMudp.cxx:172: TDCM@192.168.10.1:1122: Waiting 1 sec to dry DAQ...
1:16:32 WARN feHatTdcMudp.cxx:173: TDCM@192.168.10.1:1122: Waiting 1 sec to dry DAQ...
1:16:32 INFO feHatTdcMudp.cxx:173: Deleted 0 saved events.
1:16:32 DEBUG HaTpcReadout.cpp:178: Left 5 unsaved events in buffer.
1:16:32 WARN HaTpcReadout.cpp:179: 1 scripts will be executed...
1:16:37 WARN TdcMHandler.cpp:294: Running script: "/root/macros/fem stop.txt0" on TDCM@192.168.10.1:1122
1:16:37 INFO UdpcConnector.cpp:183: No response from the TDCM. Resetting_nbExpectedFrames...
1:16:37 INFO TdcMHandler.cpp:151: be trig_ena 0
1:16:37 DEBUG TdcMHandler.cpp:165: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) Reg(6) <- 0x0
1:16:39 INFO UdpcConnector.cpp:183: Waiting for 2000ms...
1:16:39 INFO TdcMHandler.cpp:151: daq 0xFFFFFFFF F
1:16:39 DEBUG TdcMHandler.cpp:165: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0): daq paused
1:16:41 INFO UdpcConnector.cpp:183: Waiting for 1000ms...
1:16:41 INFO TdcMHandler.cpp:151: be fe active
1:16:41 INFO UdpcConnector.cpp:183: be pump running
1:16:41 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) 00000000.00000000.00000000.00000001 (Reg(10) = 0x00000001)
1:16:41 INFO UdpcConnector.cpp:183: be pump stalled
1:16:41 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) 00000000.00000000.00000000.00000001 (Reg(23) = 0x00000001)
1:16:41 INFO UdpcConnector.cpp:183: be state tg
1:16:41 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) 00000000.00000000.00000000.00000000 (Reg(24) = 0x00000000)
1:16:42 INFO UdpcConnector.cpp:183: be state eb
1:16:42 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) Reg(27) = 0x2030003 (Trigger_Generator: WAITING_TRIG )
1:16:42 INFO UdpcConnector.cpp:183: be state pm
1:16:42 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) Reg(27) = 0x2030003 (Event_Builder: COLLECTING_SQE WAIT_FEM_PKT Current_FBI:00 )
1:16:42 INFO UdpcConnector.cpp:183: fe state
1:16:42 INFO TdcMHandler.cpp:151: TDCM@192.168.10.1:1122: BE->TDCM(0)->Configuration: 0 TdcM(0) Fem(00) State = 0x3 ( Aligned_SCA_Write )
1:16:43 INFO feHatTdcMudp.cxx:182: TDCM@192.168.10.1:1122: Commands history: 11:16:43 INFO feHatTdcMudp.cxx:182: {
1:16:43 INFO feHatTdcMudp.cxx:182: be version,
1:16:43 INFO feHatTdcMudp.cxx:182: daq 0xFFFFFFFF F,
1:16:43 INFO feHatTdcMudp.cxx:182: fe emit_hit_cnt 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe emit_empty_ch 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe emit_lst_cell_rd 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe keep_rst 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe skip_rst 2,
1:16:43 INFO feHatTdcMudp.cxx:182: fe test_enable 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe test_mode 0,
1:16:43 INFO feHatTdcMudp.cxx:182: fe tdata A 0x1FF
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Triggers stopped successfully:
No cross-frames between DAQ and configuration commands

Successful event flush:
No event is left in the TDCM buffer (quite important)

Stopping TDCM:
TDCM is in the expected state to be ready for a new run!