

## Dump RCE data to disk

```
ssh np04daq@np04-srv-011
cd /nfs/sw/rce/setup.sh dev
rce_wib_debug --cob 1 --dpm 1
```

### Example Output

```
RunMode: Software trigger, RCEs: ['CERN-110', 'CERN-112']

Accepting triggers for 5 seconds ... (see --timeout option)

[CERN-110] Configuring... OK
[CERN-110] Output file is: CERN-110.dat
Open socket
Got listening socket 4
Listening for a connection on port 7765
Accepted connection from client
SO_RCVBUF = 00040000
TCP_NODELAY = 0
  Rate          Bps SeqErrs DatErrs BadData Nevents   Total      Bytes
-----
-----

----- NEW EVENT -----

. . . .
. . . .
. . . .

Trailer: 74cf61ddfad7e6df

----- NEW EVENT -----
Stopping pid 17797 ...OK
[CERN-112] Stopping pid 17800 ...OK

Run the following commands to inspect the data ...

PdReaderTest CERN-110.dat | less
PdReaderTest CERN-112.dat | less
```

### Notes

- Each COBs has 4 DPMs
- Each DPM contains 2 RCEs
- The script dump data of 2 RCEs to disk (e.g.. CERN-110.dat, CERN-112.dat).
- *PdReaderTest* gives a portion of formatted output of the RCEs data

### PdReaderTest Output

```
Header: 8b309e2205281920
Header      Type.Format = 2.0 N64:052819:2 SubType=2 Bridge=8b309e
Identifier: 000000817f800001 00006dd0ef409d7d
            Format.Type = 1.0 Srcs = 0.0.0 : 1f.7.0
            Timestamp = 00006dd0ef409d7d Sequence = 00000081
Originator: 00000512
            Software = 01.00.05.00 Firmware = 00000048
            RptTag = 4903
            Serial # = b10000007effad70
            Location = np04-sm-1/1/1/2

. . . .
. . . .
```

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```
Wf #   CC Ve Cr.S.F ( Id)   Rsvd  WibErrs           TimeStamp Cvt0 Cvt1
-----
3: bc 01 1f.7.4 (3fc), 000200 000000ff 00006dd0f778ad6f b4b4 b5b5
  iCd SE Rv  ChkSums  Cvt ErRg Rsvd      Hdrs
  --- -- --
    0 8c 8c 7979f5f5 b4b4 00ff 00fe  aaaaaaaaa
Chn 0: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn10: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn20: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn30: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
  iCd SE Rv  ChkSums  Cvt ErRg Rsvd      Hdrs
  --- -- --
    1 8c 8c 7979f6f6 b5b5 00ff 00fe  aaaaaaaaa
Chn 0: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn10: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn20: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
Chn30: 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef 04e4 04fe 0e4f 0fef
```

Trailer = 74cf61ddfad7e6df  
Closing

-- KaVangTsang - 2017-11-15

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