

# Test DAQ data smple/2014/1/18

Tuesday, January 21, 2014 10:13 AM

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## 1/18/2014 9:37 PM

Test Data Sample <http://www-eng.lbl.gov/~leardila-perez/SSD/TestData/Jan18/>

Test DAQ data file list:

Jan18/ test0.txt test1.txt test2.txt test3.txt test4.txt

Jan18a/ test0a.txt test1a.txt test2a.txt test3a.txt test4a.txt

### Test0.txt

```
INFO:header .good to go
INFO:Event Number = 203
*****Process Event 203 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:-----Decoding Fiber [2]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 6682906; Current adc_Length = 4106
INFO:-----Decoding Fiber [3]-----
ERROR:Bad FIBER LINK TOKEN, Stop!
FIBER WORD: 0x100a0
Line Number:6682906
```

This is the end of ROOT -- Goodbye

Meas Event 204, Fiber 2(star of 0),the ADC length(4105) is less than Fiber token record(4106)

### Test1.txt

No problems

Test2.txt

```
*****Process Event 18 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
INFO:-----Decoding Fiber[0]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 595594; Current adc_Length = 4106
INFO:-----Decoding Fiber[1]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 599700; Current adc_Length = 4106
INFO:-----Decoding Fiber[2]-----
ERROR:Bad FIBER LINK TOKEN, Stop!
FIBER WORD: 0x100a0
Line Number:599700

This is the end of ROOT -- Goodbye
```

The same problems, Event19, Fiber1,ADC length is less than FIBER header record

Test3.txt

No problems

Test4.txt

No problems

////////////////////////////////////  
////////

Test0a.txt

```
INFO:Event Number = 190
*****Process Event 190 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:DecodeHitsData,Good to go
INFO:Current m = 6276650; Current adc_Length = 4106
INFO:Check TCD Token
ERROR:Bad TCD Token,Stop!
TCD TOKEN WORD: 0xe4061
Line Number:6276650
m_sectorData[0]=e4061
m_sectorData[1]=42062
m_sectorData[2]=e4062
m_sectorData[3]=eeeeeee
m_sectorData[4]=77772222
m_sectorData[5]=bbbbbbb
```

Data

```
0x0711e844
0x07b18c41
0x08c2bc8a
0x0952a898
0x3c5f0ce1
0x000e4061
0x000e4061
0x00042062
0x000e4062
0xeeeeeeee
0x77772222
0xbbbbbbbb
# End of DDL event. DTSTW: 0x0805f082
# DDL event length: 32863, DTSTW length: 32863
# Event 192
```

Error is : TCD info is wrong, do not have TCD Token, TCD info ,and TCD end token.

### Test1a.txt

```
INFO:Event Number = 96
*****Process Event 96 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:-----Decoding Fiber [7]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 3187608; Current adc_Length = 4106
INFO:Check TCD Token
ERROR:Bad TCD Token,stop!
TCD TOKEN WORD: 0xe4024
Line Number:3187608
```

### Data

```
0x05a2bcc7
0x09718471
0x0901f88e
0x0b02e89d
0x02f2f089
0x0b22eccd
0x000e4024
0x000e4024
0x00042025
0x000e4025
0xeeeeeeee
0x77772222
0xbbbbbbbb
# End of DDL event. DTSTW: 0x0805f082
# DDL event length: 32863, DTSTW length: 32863
```

Error :the same error with test0a.txt, we got wrong TCD info.

### Test2a.txt

```
*****Process Event 72 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:Current m = 2374284; Current adc_Length = 4106
INFO:-----Decoding Fiber[2]-----
ERROR:Bad FIBER LINK TOKEN, Stop!
FIBER WORD: 0x100a0
Line Number:2374284

This is the end of ROOT -- Goodbye
```

Error : In Event 73, Fiber 1(star of 0), ADC length is 4105, less than 4106 in fiber header record.

### Test3a.txt

```
INFO:Event Number = 1985
*****Process Event 1985 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:-----Decoding Fiber[7]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 65263926; Current adc_Length = 4106
INFO:Check TCD Token
ERROR:Bad TCD Token,Stop!
TCD TOKEN WORD: 0x2f24856
Line Number:65263926

This is the end of ROOT -- Goodbye
```

In test3a.txt

```
0x0b51cc4a
0x3cd2688e
0x0ab22bce
0x057143cd
0x0730a88b
0x07712069
0x095250a9
0x095f43cc
0x04bf34ab
0x02f24856
0x0431a86f
0x09a2b878
0x3cef3499
0x3cd2908f
0x08d14850
# End of DDL event. DTSTw: 0x0805e082
# DDL event length: 32862, DTSTw length: 32862

# Event 1987
```

Error is :Not only TCD info is not correct ,but also CDC and END token are not correct in Event 1986.

### Test4a.txt

Error log

```
INFO:Event Number = 1985
*****Process Event 1985 Done!*****
INFO:New Event!
INFO:Current Event RDO:1
INFO:header ok
```

```
INFO:-----Decoding Fiber[7]-----
INFO:Current mode is 0
INFO:Current Adc length is m_adclength = 4106
INFO:Current Fiber Flag is m_flag = 0
INFO:Fiber Token ok
INFO:START DECODING RAWMODE DATA
Decode Raw Data, Adc Length = 4106
INFO:PROCESSING 0%
INFO:PROCESSING 24.4141%
INFO:PROCESSING 48.8281%
INFO:PROCESSING 73.2422%
INFO:PROCESSING 97.6562%
INFO:DecodeHitsData,Good to go
INFO:Current m = 65263926; Current adc_Length = 4106
INFO:Check TCD Token
ERROR:Bad TCD Token,Stop!
TCD TOKEN WORD: 0x6617428
Line Number:65263926

This is the end of ROOT -- Goodbye
```

```
In test4a.txt
0x06f0cc4c
0x0501cc87
0x00b1c0a7
0x039153f6
0x06617428
0x04a13865
0x08020c65
0x08a2c849
0x05dfb805
0x06708435
# End of DDL event. DTSTw: 0x0805e082
# DDL event length: 32862, DTSTW length: 32862
# Event 1987
```

Error : the same with test3a.txt, TCD info and CDC, END token are wrong !