



0 0 0 0 0  
0 0 0

</uint32>  
</event>

In Bank 10, only 16 channels  
are writable, but only 8 channels  
are non zero! Which ones?

*1st example*

```

reg4= echo $( echo $line | awk -F '{print $9}' )
reg5=echo $( echo $line | awk -F '{print $10}' )
reg6=echo $( echo $line | awk -F '{print $11}' )
reg7= echo $( echo $line | awk -F '{print $12}' )
reg8= echo $( echo $line | awk -F '{print $13}' )
reg9= echo $( echo $line | awk -F '{print $14}' )
reg10= echo $( echo $line | awk -F '{print $15}' )
reg11= echo $( echo $line | awk -F '{print $16}' )
reg12= echo $( echo $line | awk -F '{print $17}' )
reg13= echo $( echo $line | awk -F '{print $18}' )
reg14= echo $( echo $line | awk -F '{print $19}' )
reg15= echo $( echo $line | awk -F '{print $20}' )
echo "bbs: '$reg1', bbs2: '$reg2', bbs3: '$reg3', bbs4: '$reg4', bbs5: '$reg5', bbs6: '$reg6', bbs7: '$reg7', bbs8: '$reg8', bbs9: '$reg9', bbs10: '$reg10'
    
```

*These numbers correspond to TI entry*

*↑ equivalent to #3265*

```

done < BigByteEvent140_3126.dat
0xd5cb74b, 0xbbe90010: 0xb06963, 0xbbea0010: 0xf96652,
./doExtractBBScalers.sh: line 45: BigByteEvent140_3126.dat: No such file or directory
~/Hive/JLab/e05102/ScalerAnalysis> ./doExtractBBScalers.sh
bbs1: 10437748, bbs2: 15070094, bbs3: 15252251, bbs4: 3984422910, bbs5: 0, bbs6: 0, bbs7: 196266361, bbs8: 196245138, bbs9: 10126539, bbs10: 14323858
bbs1: 10490865, bbs2: 15146547, bbs3: 15329542, bbs4: 400443772, bbs5: 0, bbs6: 0, bbs7: 197257752, bbs8: 197245138, bbs9: 10177856, bbs10: 14355378
bbs1: 10543236, bbs2: 15222916, bbs3: 15406625, bbs4: 4024453042, bbs5: 0, bbs6: 0, bbs7: 198248208, bbs8: 198240192, bbs9: 10228459, bbs10: 14468797
bbs1: 10596827, bbs2: 15299508, bbs3: 15484613, bbs4: 404448260, bbs5: 0, bbs6: 0, bbs7: 199250950, bbs8: 1992337373, bbs9: 10280322, bbs10: 14541360
bbs1: 10649508, bbs2: 15375213, bbs3: 15561824, bbs4: 4064498929, bbs5: 0, bbs6: 0, bbs7: 200244787, bbs8: 200223636, bbs9: 10331196, bbs10: 14613076
bbs1: 10701406, bbs2: 15449357, bbs3: 15637683, bbs4: 408470341, bbs5: 0, bbs6: 0, bbs7: 201212910, bbs8: 201197811, bbs9: 10381365, bbs10: 14683322
bbs1: 10753109, bbs2: 15524343, bbs3: 15713884, bbs4: 4104455298, bbs5: 0, bbs6: 0, bbs7: 202193138, bbs8: 202132573, bbs9: 10431220, bbs10: 14754376
bbs1: 10804306, bbs2: 15598001, bbs3: 15788121, bbs4: 4124408320, bbs5: 0, bbs6: 0, bbs7: 203149277, bbs8: 203141659, bbs9: 10480686, bbs10: 14824088
bbs1: 10855815, bbs2: 15672703, bbs3: 15863457, bbs4: 414387271, bbs5: 0, bbs6: 0, bbs7: 204126450, bbs8: 204114451, bbs9: 10530475, bbs10: 14894810
bbs1: 10907556, bbs2: 15747620, bbs3: 15939176, bbs4: 416363109, bbs5: 0, bbs6: 0, bbs7: 205095121, bbs8: 205092213, bbs9: 10580486, bbs10: 14965579
bbs1: 10961101, bbs2: 15824758, bbs3: 16017378, bbs4: 418412379, bbs5: 0, bbs6: 0, bbs7: 206107391, bbs8: 206099090, bbs9: 10632246, bbs10: 15038723
bbs1: 11014305, bbs2: 15901239, bbs3: 16094839, bbs4: 420433032, bbs5: 0, bbs6: 0, bbs7: 207106652, bbs8: 207090731, bbs9: 10683675, bbs10: 15111199
bbs1: 11067028, bbs2: 15976850, bbs3: 16171961, bbs4: 422437100, bbs5: 0, bbs6: 0, bbs7: 208090799, bbs8: 208080730, bbs9: 10734621, bbs10: 15182868
bbs1: 11120456, bbs2: 16052813, bbs3: 16249461, bbs4: 4244463270, bbs5: 0, bbs6: 0, bbs7: 209090111, bbs8: 209077388, bbs9: 10786201, bbs10: 15254863
bbs1: 11172028, bbs2: 16126922, bbs3: 16324753, bbs4: 426424159, bbs5: 0, bbs6: 0, bbs7: 210055391, bbs8: 210044131, bbs9: 10836022, bbs10: 15325104
bbs1: 11222885, bbs2: 16200335, bbs3: 163999323, bbs4: 428365151, bbs5: 0, bbs6: 0, bbs7: 211009547, bbs8: 211002142, bbs9: 10885086, bbs10: 15394789
bbs1: 11275104, bbs2: 16275458, bbs3: 16475040, bbs4: 430345031, bbs5: 0, bbs6: 0, bbs7: 211983914, bbs8: 211978154, bbs9: 10935608, bbs10: 15465976
bbs1: 11326460, bbs2: 16349820, bbs3: 16549914, bbs4: 432307851, bbs5: 0, bbs6: 0, bbs7: 212953232, bbs8: 212942583, bbs9: 10985149, bbs10: 15536341
bbs1: 11378894, bbs2: 16425366, bbs3: 16626805, bbs4: 434307846, bbs5: 0, bbs6: 0, bbs7: 213934659, bbs8: 213931259, bbs9: 11035841, bbs10: 15607911
bbs1: 11431021, bbs2: 16500550, bbs3: 16703013, bbs4: 436307871, bbs5: 0, bbs6: 0, bbs7: 214920928, bbs8: 214911269, bbs9: 11086149, bbs10: 15679111
bbs1: 11483545, bbs2: 16576999, bbs3: 16779442, bbs4: 438311222, bbs5: 0, bbs6: 0, bbs7: 215912233, bbs8: 215897444, bbs9: 11136960, bbs10: 15751465
bbs1: 11535903, bbs2: 16653189, bbs3: 16866440, bbs4: 440328161, bbs5: 0, bbs6: 0, bbs7: 216902132, bbs8: 216894463, bbs9: 11187562, bbs10: 15823704
bbs1: 11588182, bbs2: 16728360, bbs3: 16932562, bbs4: 442327742, bbs5: 0, bbs6: 0, bbs7: 217890028, bbs8: 217876317, bbs9: 11238016, bbs10: 15894950
bbs1: 11639142, bbs2: 16801617, bbs3: 17007489, bbs4: 444279973, bbs5: 0, bbs6: 0, bbs7: 218848505, bbs8: 218840690, bbs9: 11287237, bbs10: 15964476
bbs1: 11690747, bbs2: 16876666, bbs3: 17083137, bbs4: 446251149, bbs5: 0, bbs6: 0, bbs7: 219821894, bbs8: 219809041, bbs9: 11337108, bbs10: 16035715
bbs1: 11742667, bbs2: 16951246, bbs3: 17156558, bbs4: 448228563, bbs5: 0, bbs6: 0, bbs7: 220791847, bbs8: 220787305, bbs9: 11387228, bbs10: 16106430
bbs1: 11795233, bbs2: 17026432, bbs3: 17234646, bbs4: 450222868, bbs5: 0, bbs6: 0, bbs7: 221776528, bbs8: 221767241, bbs9: 11438080, bbs10: 16177573
bbs1: 11847052, bbs2: 17101522, bbs3: 17311032, bbs4: 452213886, bbs5: 0, bbs6: 0, bbs7: 222760658, bbs8: 222744232, bbs9: 11488207, bbs10: 16248743
bbs1: 11899412, bbs2: 17177558, bbs3: 17387853, bbs4: 454225957, bbs5: 0, bbs6: 0, bbs7: 223746906, bbs8: 223740360, bbs9: 11538746, bbs10: 16320783
bbs1: 11922760, bbs2: 17211383, bbs3: 17421935, bbs4: 455116111, bbs5: 0, bbs6: 0, bbs7: 224183902, bbs8: 224180043, bbs9: 11561315, bbs10: 16352850
    
```

*empty*

*448363935 < 45516111*

2nd example

Run #3300

<event format="evio" count="15020" content="bank" data\_type="0x10" tag="140" num="204">
<uint32 data\_type="0x1" tag="0" num="0">

0xbbe10020 0xa3d7d2 0xfe46a7 0x1432a9c 0x18ff2f9
0x1b8e9de 0x1ba0976 0x1995d4a 0x18deec4 0x18d50a3
0x17ec15f 0x16e4df7 0x1617e6d 0x154cb23 0x13d9538
0x12df47d 0x1066a01 0xbde533 0xe80efd 0x1309088
0x15ecddc 0x18bb5c5 0x1a34b41 0x18375ab 0x1bd2832
0x1893d37 0x17e3a02 0x18c0e3f 0x1627826 0x146df60
0x12f6e9f 0x126ac86 0x109f16d 0xbbe20020 0xeb963a
0xccddb5 0xbdae51 0xb9e6a0 0x9c828b 0x947fb8
0x6d6ce3 0x42e286 0xe6f3ad 0xd1c9bc 0xbce1b4
0x96ce25 0x74fa87 0x7d6be3 0x8b208b 0x510380
0xf43b16 0x12683e6 0x163a078 0x2088164 0x209edd8
0x1e84ef7 0x2034a15 0x1e8f601 0x1d6b7f4 0x1984fe4
0x192ead9 0x1f2934a 0x1baf8e8b 0x1c1da14 0x184d536
0x1bae5d2 0xbbe30020 0xe665f4 0x130c3c7 0x19c8a89
0x20674c9 0x22c4493 0x1ec573d 0x245b299 0x2316c54
0x1d529f7 0x1ae07b8 0x1e8c0a3 0x1bb07aa 0x1be5d76
0x19b37ca 0x157d936 0x1519362 0x13e4a30 0x16f6b41
0xa020e9 0x166e720 0x7b3c46 0x10a63f3 0xdc75fe
0x706ade 0x1a3ad91 0x17e5b05 0x15804ed 0xe1673a
0xf81b23 0x13b59cc 0xdc8d5 0x876645 0xbbe40020
0x1849f183 0x1488e243 0x1e3255b 0x95b93 0x350246
0x1e0a45 0 0x16b19b 0x331169 0x3311d7
0x331169 0x1c0ef977 0x331169 0x1c0e70f9 0x8fc4236
0x717c 0x1dc388a 0x5a80f71 0x1131d9a7 0x1e0bb06
0x5ca301a 0x124117e9 0xddb1 0x4a 0
0 0 0 0 0
0xed41d6 0x499b8 0x1a126a 0xbf6721b 0xa1c762d
0xb2da0 0x191e8b 0x191e8d 0xec5b9 0
0x191e8a 0xa0a8f8c 0x46d2600 0x191e89 0xa0a8f36
0x2c95bf0 0x87877f3 0xecd3fe 0x37d4 0xea9ad6
0xeafd 0x29 0 0x2da2bad 0x8fe175b
0 0 0 0 0
0xbbe60020 0xbf733b7 0xa1d5949 0xebbbff 0x49c5a
0x1a2709 0xed125 0 0xb2e25 0x1931d2
0x1931cf 0x1931d9 0xa095629 0x1931cf 0xa0955f3
0x46d2072 0x37fb 0xea9462 0x2c94ef9 0x8785a1d
0xecccce6 0x2da1ed9 0x8fdf65a 0xeb93 0x25
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0x9fb153 0xe1a70d 0x128e15b 0x15c843f 0xbbe90010
0x1a0fc94 0x1826c1f 0x18bfa7b 0x184822e 0x18c56f8
0x168629d 0x1583cfb 0x1431437 0x12c1710 0x17346f2
0x1006914 0xbbea0010 0xe20a53 0xc865df 0x119e8b5
0x9746f7 0x7553f2 0x7d394d 0x606f94 0xb530bf
0x406dd3

Ungated Scalars!

Gated Hex. Scalars!

Empty as they should be!

The other Target Orientation

0  
00  
00  
0

0

0

</uint32>  
</event>

Same problems as before in  
banks 9 and 10. We see only  
first 16 channels in each bank,  
and in bank #10 only first 8  
channels are non zero!

---

2nd example

```

Name
summaryFiles
BigBitEvent140_3265.dat
BigBitEvents3265.dat
BigBitEvents3300.dat
BigBitScaler C

```

```

doExtractBBScalers.sh
reg4= echo $( echo $line | awk -F, '{print $8}' ) | awk -F, '{print $10}'
reg5= echo $( echo $line | awk -F, '{print $10}' ) | awk -F, '{print $10}'
reg6= echo $( echo $line | awk -F, '{print $12}' ) | awk -F, '{print $12}'
reg7= echo $( echo $line | awk -F, '{print $14}' ) | awk -F, '{print $14}'
reg8= echo $( echo $line | awk -F, '{print $16}' ) | awk -F, '{print $16}'
reg9= echo $( echo $line | awk -F, '{print $18}' ) | awk -F, '{print $18}'
reg10= echo $( echo $line | awk -F, '{print $20}' ) | awk -F, '{print $20}'
echo "bbe1: '$reg1', bbe2: '$reg2', bbe3: '$reg3', bbe4: '$reg4', bbe5: '$reg5', bbe6: '$reg6', bbe7: '$reg7',
bbe8: '$reg8', bbe9: '$reg9', bbe10: '$reg10'"
done < BigBitEvent140_3300.dat

```

miham@escartes: ~/Hive/JLab/e05102/ScalerAnalysis > ./doExtractBBScalers.sh

```

bbe1: 10737618, bbe2: 15439418, bbe3: 15099380, bbe4: 407499139, bbe5: 200700443, bbe6: 200750007, bbe7: 0, bbe8: 0, bbe9: 10465619, bbe10: 14813779
bbe1: 10807778, bbe2: 15640776, bbe3: 15198620, bbe4: 410165227, bbe5: 202017906, bbe6: 202058762, bbe7: 0, bbe8: 0, bbe9: 10633706, bbe10: 14910782
bbe1: 10877991, bbe2: 15641469, bbe3: 15297370, bbe4: 412834324, bbe5: 203334795, bbe6: 203371508, bbe7: 0, bbe8: 0, bbe9: 10601945, bbe10: 15007074
bbe1: 10948440, bbe2: 15742171, bbe3: 15396705, bbe4: 415500715, bbe5: 204648145, bbe6: 204685221, bbe7: 0, bbe8: 0, bbe9: 10670353, bbe10: 15103358
bbe1: 11019291, bbe2: 15843354, bbe3: 15495582, bbe4: 418169622, bbe5: 205956677, bbe6: 2060005126, bbe7: 0, bbe8: 0, bbe9: 10739188, bbe10: 15200051
bbe1: 11090189, bbe2: 15944989, bbe3: 15595047, bbe4: 420843508, bbe5: 207277597, bbe6: 207319206, bbe7: 0, bbe8: 0, bbe9: 10808039, bbe10: 15297300
bbe1: 11160759, bbe2: 16045881, bbe3: 15683963, bbe4: 423511436, bbe5: 208590246, bbe6: 208634660, bbe7: 0, bbe8: 0, bbe9: 10876563, bbe10: 15390819
bbe1: 11231005, bbe2: 16147079, bbe3: 15792515, bbe4: 426179169, bbe5: 209902646, bbe6: 209950503, bbe7: 0, bbe8: 0, bbe9: 10944718, bbe10: 15490596
bbe1: 11301097, bbe2: 16247991, bbe3: 15891749, bbe4: 428848961, bbe5: 211219481, bbe6: 211263567, bbe7: 0, bbe8: 0, bbe9: 11012739, bbe10: 15587165
bbe1: 11371301, bbe2: 16348500, bbe3: 15990555, bbe4: 431509650, bbe5: 212534178, bbe6: 212570082, bbe7: 0, bbe8: 0, bbe9: 11080939, bbe10: 15683261
bbe1: 11441763, bbe2: 16449573, bbe3: 16085753, bbe4: 434175969, bbe5: 213843288, bbe6: 213887459, bbe7: 0, bbe8: 0, bbe9: 11149463, bbe10: 15780011
bbe1: 11512523, bbe2: 16550483, bbe3: 16188632, bbe4: 436840524, bbe5: 215161301, bbe6: 215194594, bbe7: 0, bbe8: 0, bbe9: 11218202, bbe10: 15876532
bbe1: 11582830, bbe2: 16651055, bbe3: 16287119, bbe4: 439504109, bbe5: 216468283, bbe6: 216510756, bbe7: 0, bbe8: 0, bbe9: 11286516, bbe10: 15972569
bbe1: 11653239, bbe2: 16752760, bbe3: 16386074, bbe4: 442183393, bbe5: 217787526, bbe6: 217832096, bbe7: 0, bbe8: 0, bbe9: 11354915, bbe10: 16069834
bbe1: 11723641, bbe2: 16853613, bbe3: 16484867, bbe4: 444847465, bbe5: 219094750, bbe6: 219149459, bbe7: 0, bbe8: 0, bbe9: 11423313, bbe10: 16166333
bbe1: 11794132, bbe2: 16954464, bbe3: 16583734, bbe4: 447513197, bbe5: 220406688, bbe6: 220463975, bbe7: 0, bbe8: 0, bbe9: 11491809, bbe10: 16262836
bbe1: 11864782, bbe2: 17055413, bbe3: 16682664, bbe4: 450181561, bbe5: 221724345, bbe6: 221775326, bbe7: 0, bbe8: 0, bbe9: 11560458, bbe10: 16359360
bbe1: 11935353, bbe2: 17156653, bbe3: 16781792, bbe4: 452860279, bbe5: 223043586, bbe6: 223095222, bbe7: 0, bbe8: 0, bbe9: 11629106, bbe10: 16456459
bbe1: 12004715, bbe2: 17257626, bbe3: 16880572, bbe4: 455525817, bbe5: 224360188, bbe6: 224404738, bbe7: 0, bbe8: 0, bbe9: 11696504, bbe10: 16552855
bbe1: 12075467, bbe2: 17358609, bbe3: 16979301, bbe4: 458190905, bbe5: 225667150, bbe6: 225723437, bbe7: 0, bbe8: 0, bbe9: 11765231, bbe10: 16649434
bbe1: 12146136, bbe2: 17459596, bbe3: 17079301, bbe4: 460863853, bbe5: 226986979, bbe6: 227036411, bbe7: 0, bbe8: 0, bbe9: 11833913, bbe10: 16745000
bbe1: 12216197, bbe2: 17560887, bbe3: 17178563, bbe4: 463635974, bbe5: 228303400, bbe6: 228356135, bbe7: 0, bbe8: 0, bbe9: 11901990, bbe10: 16842954
bbe1: 12286780, bbe2: 17661940, bbe3: 17277616, bbe4: 466210636, bbe5: 229621159, bbe6: 229669580, bbe7: 0, bbe8: 0, bbe9: 11970526, bbe10: 16939613
bbe1: 12357076, bbe2: 17762673, bbe3: 17376550, bbe4: 468881986, bbe5: 230930085, bbe6: 230992460, bbe7: 0, bbe8: 0, bbe9: 12038882, bbe10: 17036821
bbe1: 12427565, bbe2: 17864575, bbe3: 17475903, bbe4: 471559484, bbe5: 232251146, bbe6: 232309382, bbe7: 0, bbe8: 0, bbe9: 12107370, bbe10: 17133311
bbe1: 12497918, bbe2: 17965953, bbe3: 17575452, bbe4: 474242287, bbe5: 233570971, bbe6: 233632380, bbe7: 0, bbe8: 0, bbe9: 12175692, bbe10: 17230309
bbe1: 12568732, bbe2: 18067130, bbe3: 17674990, bbe4: 476918788, bbe5: 234894270, bbe6: 234946109, bbe7: 0, bbe8: 0, bbe9: 12244470, bbe10: 17327056
bbe1: 12639447, bbe2: 18168222, bbe3: 17773965, bbe4: 479593060, bbe5: 236240555, bbe6: 236270316, bbe7: 0, bbe8: 0, bbe9: 12313141, bbe10: 17423820
bbe1: 12709714, bbe2: 18269701, bbe3: 17872892, bbe4: 482265725, bbe5: 237527237, bbe6: 237580984, bbe7: 0, bbe8: 0, bbe9: 12381398, bbe10: 17520773
bbe1: 12779974, bbe2: 18371571, bbe3: 17971574, bbe4: 484940848, bbe5: 238840743, bbe6: 238902672, bbe7: 0, bbe8: 0, bbe9: 12449587, bbe10: 17618168
bbe1: 12850446, bbe2: 18473133, bbe3: 18070495, bbe4: 487618145, bbe5: 240160720, bbe6: 240220360, bbe7: 0, bbe8: 0, bbe9: 12518003, bbe10: 17715230
bbe1: 12892782, bbe2: 18534028, bbe3: 18130108, bbe4: 489226108, bbe5: 240947188, bbe6: 241018051, bbe7: 0, bbe8: 0, bbe9: 12559141, bbe10: 17773426

```

Empty

481965239

miham@escartes: ~/Hive/JLab/e05102/ScalerAnalysis >