

2nd trial & spin
Combination

```

0           0           0
</uint32>
<uint32 data_type="0x1" tag="12" num="35">
  0x5        0           0x1d4c       0x135e5d      0x17d3fa4
  0x23       0xcafe0000  0x44063     0x45ac3       0x21a09
  0x22710    0x21655           0x22346     0           0
  0          0           0x1242a5    0x16b06       0x281a
  0x16f3     0xbbe10000       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
  0x7b0d    0xbf23           0xf2e8      0x12cd7       0x14aa6
  0x14d26   0x1342e          0x12b2c     0x12c0f       0x1205a
  0x11451   0x10ae3          0x10068     0xee88        0xe30f
  0xc5f6    0x8ecb           0xaed2      0xe544        0x10895
  0x1291b   0x13ba9          0x123a4     0x14f29       0x128b7
  0x12093   0x12a80          0x10b7c     0xf5f2        0xe40e
  0xde53    0xc8b9           0xbbe30000  0xb17a        0x9a0b
  0x8d75    0x8b3c           0x7507      0x6ea3        0x5217
  0x30f6    0xae35           0x9e47      0x8ce9        0x70e4
  0x57fa    0x5d90           0x6863      0x3b33        0xb857
  0xddbd    0x10d58          0x1863f     0x1896d       0x16e20
  0x18137   0x17008          0x16276     0x13240       0x12f4e
  0x1779d   0x15540          0x15163     0x12bae       0x14a55
  0xbbe40000 0xad32           0xe620      0x137d7       0x1859e
  0x1a1dd   0x17127          0x1b380     0x1a68b       0x16080
  0x14256   0x170a0          0x14e9d     0x150ac       0x13afb
  0x10320   0xfcfc1          0xf049      0x11504       0x7fce
  0x10e02   0x5d7e           0xbd88      0x9fda        0x5072
  0x13c54   0x11fd6          0x10126     0xa9f0        0xbb4d
  0xeb7b    0xa6ce           0x6551      0xbbe50000    0x1242ee
  0xf6e66   0x16b08          0x716       0x281a        0x16f3
  0          0x1005           0x23        0x23          0x23
  0x17d4559 0x23            0x17d456e   0x657e7       0x50
  0x165b3   0x44073          0xcd58      0x1697a       0x45ad4
  0xdbadc   0x150            0           0           0
  0          0           0           0           0
  0          0xbbe60000      0x9098b     0x7a229       0xb2ba
  0x382     0x13ef           0xb57       0           0x7eb
  0x1e      0x1e            0x1e        0xbc7a44      0x1e
  0xbc7a5c  0x322bf         0x2d        0xb0dc        0x21a1d
  0x66414   0xb2b9          0x22724     0x6c9ad       0xa1
  0          0           0           0           0
  0          0           0           0           0xbbe70000
  0x8f39b   0x790a7         0xb30a      0x379         0x13a4
  0xb49     0          0x7dd       0x4           0x4
  0x4        0xbb2f4e        0x4         0xbb2f4d      0x31d44
  0x23       0xaf9a          0x21655     0x65892       0xb17b
  0x22346   0x6bd78         0xaa        0           0
  0          0           0           0           0
  0          0           0xbbe80000  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
  0xbbe90000 0x10078        0x16b95     0x1df2f       0x232d9

```

Empty again!

TDCs
all channels
are full!

Unprojected

Different Target
Spin orient.
These two
banks were
full.

Another bank should also be
empty since we changed
Target spin orientation!

0x27dff	0x2a059	0x26e8c	0x27eed	0x274f5
0x256c9	0x24402	0x22bdc	0x2082f	0x1e4e8
0x1c73d	0x19dfc	0x16c46	0x14386	0x122b9
0xf374	0xbdd6	0xc8c2	0x9c3b	0x6655
0	0	0	0	0
0	0	0	0xbbea0000	0x13ec3
0x1a385	0x208e4	0x27a4b	0x2d2f3	0x243f5
0x2988f	0x27cdd	0x210d7	0x19b1b	0x1d2d8
0x1add3	0x1592e	0x1bda7	0x1807b	0x16a0d
0x11533	0x5f73	0x9f27	0xb673	0x6c96
0xb8b3	0x51ea	0x2d05	0	0
0	0	0	0	0
0				

</uint32>
</event>

Ind Cambridge Forum

```

reg3= echo $(($(echo $line | awk -F, '{print $6}')) | awk -F, '{print $8}'))
reg4= echo $(($(echo $line | awk -F, '{print $8}')) | awk -F, '{print $10}'))
reg5= echo $(($(echo $line | awk -F, '{print $10}')) | awk -F, '{print $12}'))
reg6= echo $(($(echo $line | awk -F, '{print $12}')) | awk -F, '{print $14}'))
reg7= echo $(($(echo $line | awk -F, '{print $14}')) | awk -F, '{print $16}'))
reg8= echo $(($(echo $line | awk -F, '{print $16}')) | awk -F, '{print $18}'))
reg9= echo $(($(echo $line | awk -F, '{print $18}')) | awk -F, '{print $20}'))
# echo 'bbs1:$reg1', bbs2:$reg2', bbs3:$reg3', bbs4:$reg4', bbs5:$reg5', bbs6:$reg6', bbs7:$reg7', bbs8:$reg8', bbs9:$reg9'
# bbs8:$reg8', bbs9:$reg9', bbs10:$reg10
echo "reg1" "$reg2" "$reg3" "$reg4" "$reg5" "$reg6" "$reg7" "$reg8" "$reg9" "$reg10"
done < BigBiteEvents3300.dat
    
```

```

dgExtractBBSscalers.sh
reg3= echo $(($(echo $line | awk -F, '{print $6}')) | awk -F, '{print $8}'))
reg4= echo $(($(echo $line | awk -F, '{print $8}')) | awk -F, '{print $10}'))
reg5= echo $(($(echo $line | awk -F, '{print $10}')) | awk -F, '{print $12}'))
reg6= echo $(($(echo $line | awk -F, '{print $12}')) | awk -F, '{print $14}'))
reg7= echo $(($(echo $line | awk -F, '{print $14}')) | awk -F, '{print $16}'))
reg8= echo $(($(echo $line | awk -F, '{print $16}')) | awk -F, '{print $18}'))
reg9= echo $(($(echo $line | awk -F, '{print $18}')) | awk -F, '{print $20}'))
# echo 'bbs1:$reg1', bbs2:$reg2', bbs3:$reg3', bbs4:$reg4', bbs5:$reg5', bbs6:$reg6', bbs7:$reg7', bbs8:$reg8', bbs9:$reg9'
# bbs8:$reg8', bbs9:$reg9', bbs10:$reg10
echo "reg1" "$reg2" "$reg3" "$reg4" "$reg5" "$reg6" "$reg7" "$reg8" "$reg9" "$reg10"
done < BigBiteEvents3300.dat
    
```

Decam Helwsky Change!

0 63107 91295 86949 2398312 1183492 1179216 0 96365 115641	bbs8:0,	bbs9:65656,	bbs10:81603
0 63205 91435 89068 2402258 1184253 1182253 0 96461 119653	bbs8:0,	bbs9:65961,	bbs10:81866
miham@escartes:~/Hive/2Lab/e05102/ScalerAnalysis/~/doExtractBBSscalers.sh	bbs8:0,	bbs9:65970,	bbs10:82005
bbs1:0, bbs2:31501, bbs3:45434, bbs4:44338, bbs5:1196782, bbs6:592267, bbs7:586651, bbs8:0, bbs9:65656, bbs10:81603	bbs6:597726,	bbs7:585647,	bbs8:0,
bbs1:0, bbs2:31710, bbs3:45752, bbs4:44642, bbs5:1209372, bbs6:597726, bbs7:593711, bbs8:0, bbs9:65970, bbs10:82005	bbs6:601290,	bbs7:596791,	bbs8:0,
bbs1:0, bbs2:32001, bbs3:46157, bbs4:45048, bbs5:1216249, bbs6:601290, bbs7:596791, bbs8:0, bbs9:65145, bbs10:82204	bbs6:605994,	bbs7:596791,	bbs8:0,
bbs1:0, bbs2:32108, bbs3:46330, bbs4:45188, bbs5:1220963, bbs6:605994, bbs7:596791, bbs8:0, bbs9:66245, bbs10:82326	bbs6:611998,	bbs7:596791,	bbs8:0,
bbs1:0, bbs2:32283, bbs3:46592, bbs4:45415, bbs5:1227107, bbs6:611998, bbs7:596791, bbs8:0, bbs9:66414, bbs10:82525	bbs6:617340,	bbs7:602520,	bbs8:0,
bbs1:0, bbs2:32402, bbs3:46731, bbs4:45550, bbs5:1231163, bbs6:617340, bbs7:602520, bbs8:0, bbs9:66716, bbs10:82670	bbs6:618947,	bbs7:606687,	bbs8:0,
bbs1:0, bbs2:32593, bbs3:47008, bbs4:45840, bbs5:1238305, bbs6:618947, bbs7:606687, bbs8:0, bbs9:66888, bbs10:83100	bbs6:626799,	bbs7:610957,	bbs8:0,
bbs1:0, bbs2:32770, bbs3:47232, bbs4:46089, bbs5:1244241, bbs6:626799, bbs7:610957, bbs8:0, bbs9:67094, bbs10:83378	bbs6:627389,	bbs7:618430,	bbs8:0,
bbs1:0, bbs2:32964, bbs3:47506, bbs4:46402, bbs5:1252095, bbs6:627389, bbs7:618430, bbs8:0, bbs9:67223, bbs10:83639	bbs6:637086,	bbs7:624091,	bbs8:0,
bbs1:0, bbs2:33116, bbs3:47709, bbs4:46586, bbs5:1257071, bbs6:637086, bbs7:624091, bbs8:0, bbs9:67409, bbs10:83768	bbs6:637296,	bbs7:626425,	bbs8:0,
bbs1:0, bbs2:33307, bbs3:48010, bbs4:46846, bbs5:1264677, bbs6:637296, bbs7:626425, bbs8:0, bbs9:67544, bbs10:84196	bbs6:638837,	bbs7:635441,	bbs8:0,
bbs1:0, bbs2:33448, bbs3:48253, bbs4:47074, bbs5:1270356, bbs6:638837, bbs7:635441, bbs8:0, bbs9:67854, bbs10:84365	bbs6:644997,	bbs7:636441,	bbs8:0,
bbs1:0, bbs2:33624, bbs3:48497, bbs4:47354, bbs5:1277410, bbs6:644997, bbs7:636441, bbs8:0, bbs9:68031, bbs10:84551	bbs6:649991,	bbs7:636441,	bbs8:0,
bbs1:0, bbs2:33767, bbs3:48700, bbs4:47547, bbs5:1282531, bbs6:649991, bbs7:636441, bbs8:0, bbs9:68171, bbs10:84707	bbs6:655803,	bbs7:639533,	bbs8:0,
bbs1:0, bbs2:33944, bbs3:48944, bbs4:47761, bbs5:1289031, bbs6:655803, bbs7:639533, bbs8:0, bbs9:68271, bbs10:85062	bbs6:657150,	bbs7:646280,	bbs8:0,
bbs1:0, bbs2:34091, bbs3:49150, bbs4:47958, bbs5:1294584, bbs6:657150, bbs7:646280, bbs8:0, bbs9:68597, bbs10:85244	bbs6:664107,	bbs7:646457,	bbs8:0,
bbs1:0, bbs2:34251, bbs3:49396, bbs4:48187, bbs5:1300736, bbs6:664107, bbs7:646457, bbs8:0, bbs9:69095, bbs10:85968	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:34381, bbs3:49561, bbs4:48363, bbs5:1305886, bbs6:666970, bbs7:655470, bbs8:0, bbs9:69276, bbs10:86063	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:34529, bbs3:49840, bbs4:48573, bbs5:1311695, bbs6:666970, bbs7:655470, bbs8:0, bbs9:69415, bbs10:86246	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:34658, bbs3:50027, bbs4:48750, bbs5:1316267, bbs6:666970, bbs7:655470, bbs8:0, bbs9:69601, bbs10:86461	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:34835, bbs3:50290, bbs4:49017, bbs5:1323006, bbs6:666970, bbs7:655470, bbs8:0, bbs9:69757, bbs10:86662	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35043, bbs3:50559, bbs4:49299, bbs5:1330322, bbs6:666970, bbs7:655470, bbs8:0, bbs9:69967, bbs10:86897	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35226, bbs3:50820, bbs4:49542, bbs5:1336808, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70127, bbs10:87090	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35370, bbs3:51030, bbs4:49746, bbs5:1342314, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70290, bbs10:87303	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35558, bbs3:51305, bbs4:49999, bbs5:1349189, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35722, bbs3:51541, bbs4:50238, bbs5:1355372, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:35930, bbs3:51811, bbs4:50510, bbs5:1362380, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:36102, bbs3:52070, bbs4:50745, bbs5:1369281, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:36267, bbs3:52340, bbs4:50987, bbs5:1375387, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,
bbs1:0, bbs2:36425, bbs3:52585, bbs4:51232, bbs5:1382088, bbs6:666970, bbs7:655470, bbs8:0, bbs9:70444, bbs10:87519	bbs6:666970,	bbs7:655470,	bbs8:0,

Ungraded ch.

Graded Ch. → A grade is muboring!

Ungated Channel
Gated Channels!

```
In[23]:= Take[data, 50] // TableForm
```

Bank:

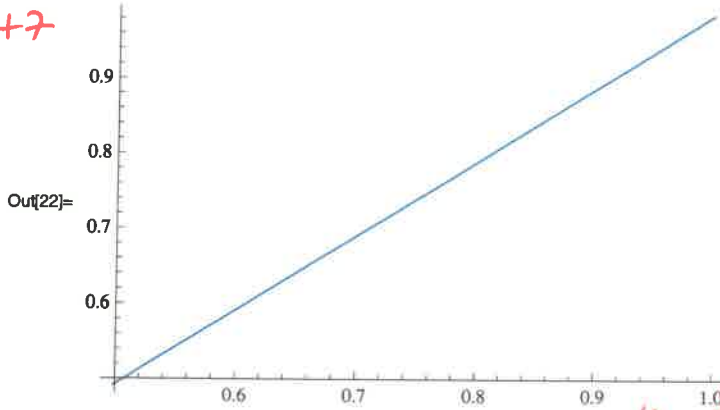
	1	2	3	4	5	6	7	8	9	10
0	31501	45434	44338	1196782	592267	586651	0	65656	81603	
0	31710	45752	44642	1205372	597726	589647	0	65861	81866	
0	31822	45886	44806	1209437	597726	593711	0	65970	82005	
0	32001	46157	45048	1216249	601290	596791	0	66145	82204	
0	32108	46330	45188	1220953	605994	596791	0	66245	82326	
0	32283	46592	45415	1227107	611998	596791	0	66414	82525	
0	32402	46731	45590	1231163	616050	596791	0	66532	82670	
0	32593	47008	45840	1238309	617340	602520	0	66716	82889	
0	32770	47232	46089	1244241	618947	606687	0	66888	83100	
0	32984	47506	46402	1252095	626799	606687	0	67094	83378	
0	33116	47709	46586	1257071	627389	610957	0	67223	83539	
0	33307	48010	46846	1264677	627389	618430	0	67409	83768	
0	33448	48253	47074	1270356	627389	624091	0	67544	83949	
0	33624	48497	47354	1277410	631970	626425	0	67718	84196	
0	33767	48700	47547	1282531	637086	626425	0	67854	84365	
0	33944	48944	47761	1289031	637296	632600	0	68031	84551	
0	34091	49150	47958	1294584	638837	636441	0	68171	84707	
0	34251	49396	48187	1300736	644997	636441	0	68331	84910	
0	34381	49611	48363	1305886	649991	636441	0	68455	85062	
0	34529	49840	48573	1311695	655803	636441	0	68597	85244	
0	34658	50027	48753	1316267	657150	639533	0	68721	85386	
0	34835	50290	49017	1323006	657150	646280	0	68898	85609	
0	35043	50559	49299	1330322	664107	646457	0	69095	85868	
0	35226	50820	49542	1336808	666970	649968	0	69276	86063	
0	35370	51030	49746	1342314	666970	655470	0	69415	86246	
0	35558	51305	49999	1349189	666970	662205	0	69601	86461	
0	35722	51541	50238	1355372	668859	666327	0	69757	86662	
0	35930	51811	50510	1362380	675870	666327	0	69967	86897	
0	36102	52070	50745	1369281	676965	671983	0	70127	87090	
0	36267	52340	50987	1375387	678486	676407	0	70290	87303	
0	36425	52585	51232	1382088	685182	676407	0	70444	87519	
0	36588	52806	51441	1388170	691139	676407	0	70602	87696	
0	36770	53055	51675	1395037	696731	677551	0	70777	87885	
0	36947	53281	51928	1401138	696731	683641	0	70949	88113	
0	37103	53513	52177	1407113	696731	689512	0	71097	88327	
0	37316	53847	52487	1414808	697425	696332	0	71307	88579	
0	37502	54151	52748	1422401	705024	696332	0	71490	88795	
0	37608	54317	52923	1427113	709586	696332	0	71592	88941	
0	37825	54638	53219	1435423	716675	697419	0	71800	89187	
0	38003	54865	53495	1441946	716675	703956	0	71973	89425	
0	38195	55145	53751	1449042	721406	706130	0	72155	89645	
0	38329	55337	53938	1454135	726498	706130	0	72288	89805	
0	38530	55585	54218	1461137	726545	712968	0	72482	90036	
0	38697	55811	54489	1467703	726545	719373	0	72649	90268	
0	38908	56127	54736	1474487	726668	725887	0	72850	90472	
0	39004	56290	54885	1479523	731700	725887	0	72945	90595	
0	39170	56512	55127	1485691	737718	725887	0	73106	90799	
0	39294	56693	55299	1490257	742271	725887	0	73226	90954	
0	39457	56942	55537	1496332	746496	727615	0	73387	91155	
0	39592	57130	55710	1501285	746496	732575	0	73518	91309	

Target Spin (-)
Velocity +/-

```
In[7]:= plotdata1 = Map[{#[[5]] / 2402258, (#[[6]] + #[[7]]) / 2402258} &, data];
```

```
In[22]:= ListPlot[plotdata1, PlotJoined -> True]
```

C4.6 + 7

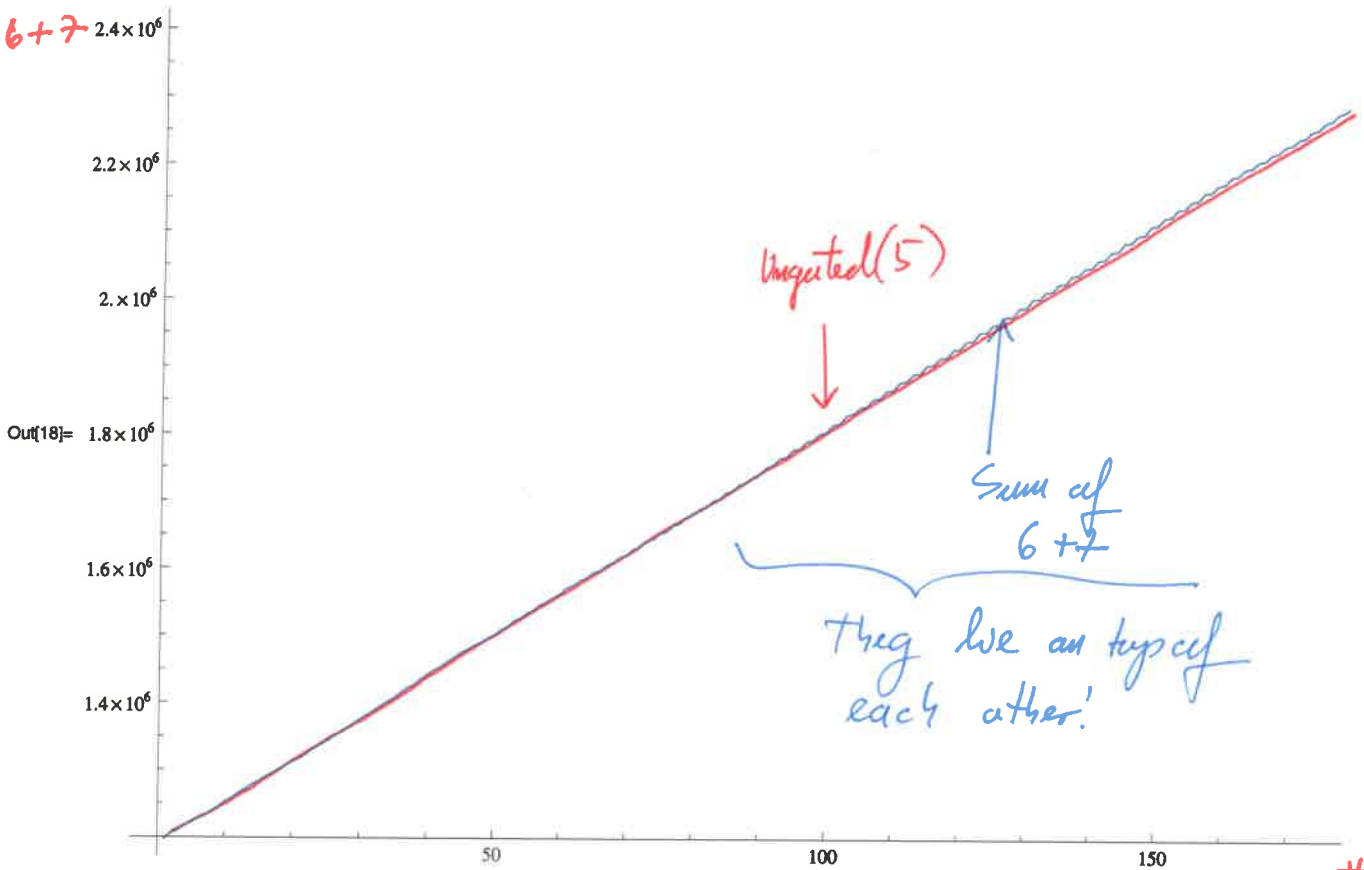


```
In[13]:= plotdata1a = Map[#[[5]] &, data];
plotdata1b = Map[#[[5]] + #[[6]] &, data];
```

Ungated C4 5

```
In[18]:= Show[ListPlot[plotdata1a, PlotJoined -> True], ListPlot[plotdata1b, PlotJoined -> True]]
```

5, 6 + 7

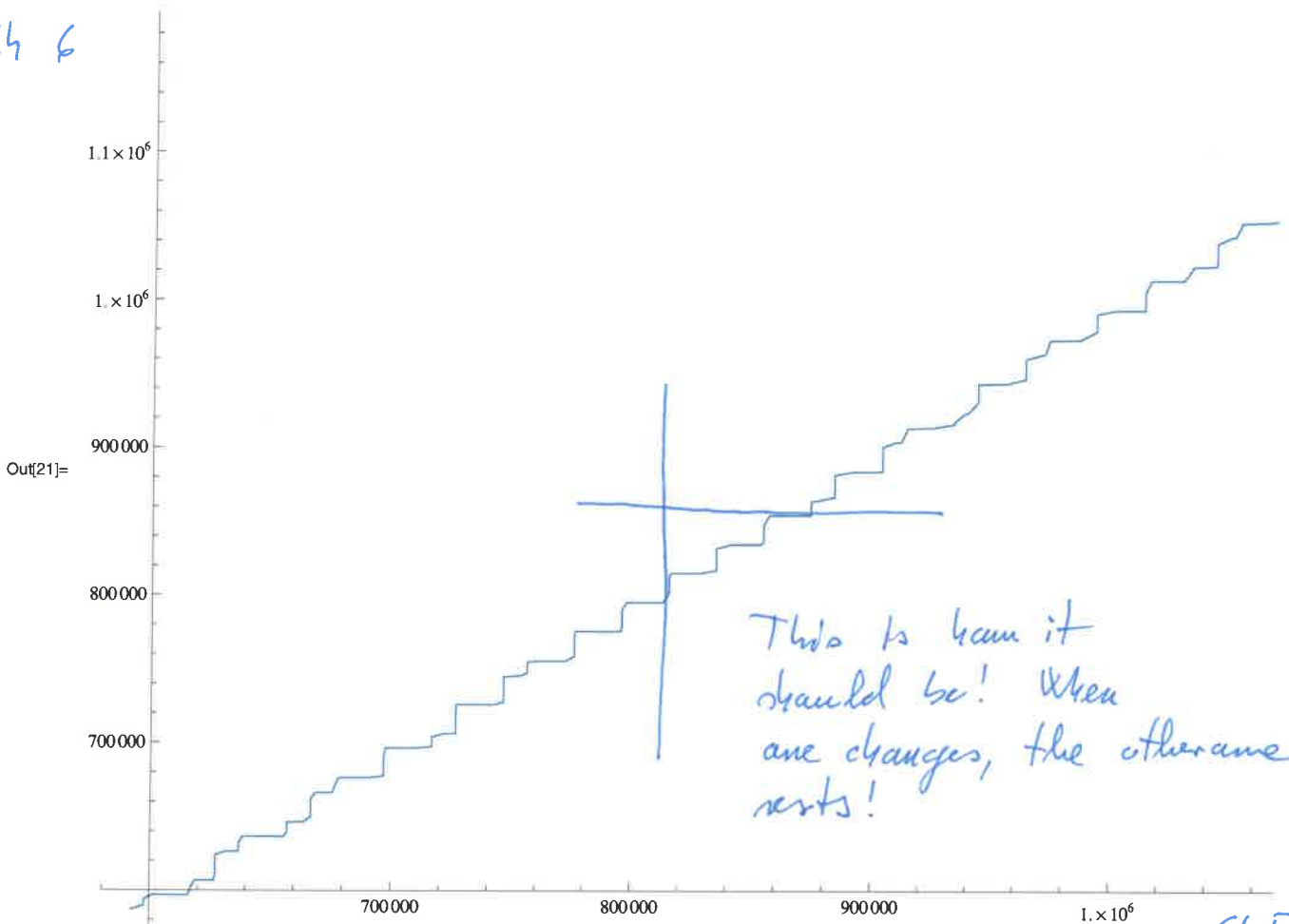


```
In[19]:= plotdata2 = Map[{#[[6]], #[[7]]} &, data];
```

#

```
In[21]:= ListPlot[plotdata2, PlotJoined -> True]
```

C4 6



This is how it should be! When one changes, the other one resets!

C4 5

0x2079d	0x1efef	0x19cce	0x14870	0x1691f
0x14c77	0x1052b	0x151c5	0x11b3a	0x118e4
0xd27a	0x48fb	0x8ecf	0x92c1	0x5046
0x88a3	0x3e73	0x2237	0	0
0	0	0	0	0
0				

</uint32>

1st Cambdation!

```

dgtExtract08Scalers.sh
reg3= echo $(($echo $line | awk -F, '{print $6}') | awk -F, '{print $8}')
reg4= echo $(($echo $line | awk -F, '{print $9}') | awk -F, '{print $10}')
reg5= echo $(($echo $line | awk -F, '{print $11}') | awk -F, '{print $12}')
reg6= echo $(($echo $line | awk -F, '{print $13}') | awk -F, '{print $14}')
reg7= echo $(($echo $line | awk -F, '{print $15}') | awk -F, '{print $16}')
reg8= echo $(($echo $line | awk -F, '{print $17}') | awk -F, '{print $18}')
reg9= echo $(($echo $line | awk -F, '{print $19}') | 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 < BigByteEvents3265.dat

```

```

mihamdescartes:~/Hive/JLab/e05102/ScalerAnalysis> ./doExtract08Scalers.sh
bbe1:0, bbe2:26328, bbe3:29766, bbe4:36683, bbe5:853504, bbe6:0, bbe7:0, bbe8:418793, bbe9:56359, bbe10:67787
bbe1:0, bbe2:26328, bbe3:30000, bbe4:36969, bbe5:859921, bbe6:0, bbe7:0, bbe8:424133, bbe9:56550, bbe10:68021
bbe1:0, bbe2:26613, bbe3:30096, bbe4:37089, bbe5:862610, bbe6:0, bbe7:0, bbe8:426693, bbe9:56636, bbe10:68118
bbe1:0, bbe2:26765, bbe3:30286, bbe4:37319, bbe5:867917, bbe6:0, bbe7:0, bbe8:431998, bbe9:56784, bbe10:68315
bbe1:0, bbe2:26863, bbe3:30411, bbe4:37461, bbe5:871157, bbe6:0, bbe7:0, bbe8:433118, bbe9:56878, bbe10:68439
bbe1:0, bbe2:27039, bbe3:30639, bbe4:37713, bbe5:877259, bbe6:0, bbe7:0, bbe8:433921, bbe9:57052, bbe10:68649
bbe1:0, bbe2:27102, bbe3:30749, bbe4:37816, bbe5:879867, bbe6:0, bbe7:0, bbe8:433921, bbe9:57052, bbe10:68649
bbe1:0, bbe2:27301, bbe3:30976, bbe4:38081, bbe5:886476, bbe6:0, bbe7:0, bbe8:436532, bbe9:57119, bbe10:68794
bbe1:0, bbe2:27389, bbe3:31063, bbe4:38179, bbe5:888988, bbe6:0, bbe7:0, bbe8:440226, bbe9:57309, bbe10:69280
bbe1:0, bbe2:27585, bbe3:31322, bbe4:38430, bbe5:895414, bbe6:0, bbe7:0, bbe8:440226, bbe9:57309, bbe10:69280
bbe1:0, bbe2:27669, bbe3:31432, bbe4:38537, bbe5:898317, bbe6:0, bbe7:0, bbe8:440226, bbe9:57309, bbe10:69280
bbe1:0, bbe2:27837, bbe3:31620, bbe4:38772, bbe5:903731, bbe6:0, bbe7:0, bbe8:440226, bbe9:57309, bbe10:69280
bbe1:0, bbe2:27961, bbe3:31726, bbe4:38914, bbe5:907138, bbe6:0, bbe7:0, bbe8:445559, bbe9:57828, bbe10:69375
bbe1:0, bbe2:28126, bbe3:31905, bbe4:39132, bbe5:912149, bbe6:0, bbe7:0, bbe8:447359, bbe9:57949, bbe10:69697
bbe1:0, bbe2:28193, bbe3:32021, bbe4:39262, bbe5:915279, bbe6:0, bbe7:0, bbe8:447359, bbe9:57949, bbe10:69697
bbe1:0, bbe2:28362, bbe3:32219, bbe4:39495, bbe5:920620, bbe6:0, bbe7:0, bbe8:449891, bbe9:58176, bbe10:69989
bbe1:0, bbe2:28442, bbe3:32319, bbe4:39597, bbe5:923130, bbe6:0, bbe7:0, bbe8:455100, bbe9:58420, bbe10:70269
bbe1:0, bbe2:28587, bbe3:32477, bbe4:39805, bbe5:927831, bbe6:0, bbe7:0, bbe8:457619, bbe9:58343, bbe10:70444
bbe1:0, bbe2:28816, bbe3:32599, bbe4:39971, bbe5:931377, bbe6:0, bbe7:0, bbe8:461481, bbe9:58556, bbe10:70444
bbe1:0, bbe2:28882, bbe3:32826, bbe4:40236, bbe5:937397, bbe6:0, bbe7:0, bbe8:461481, bbe9:58556, bbe10:70444
bbe1:0, bbe2:28985, bbe3:32961, bbe4:40365, bbe5:940734, bbe6:0, bbe7:0, bbe8:461481, bbe9:58556, bbe10:70444
bbe1:0, bbe2:29169, bbe3:33157, bbe4:40579, bbe5:946402, bbe6:0, bbe7:0, bbe8:466487, bbe9:59124, bbe10:71091
bbe1:0, bbe2:29284, bbe3:33286, bbe4:40742, bbe5:949839, bbe6:0, bbe7:0, bbe8:466487, bbe9:59124, bbe10:71091
bbe1:0, bbe2:29459, bbe3:33481, bbe4:40966, bbe5:955267, bbe6:0, bbe7:0, bbe8:469807, bbe9:59236, bbe10:71227
bbe1:0, bbe2:29565, bbe3:33591, bbe4:41117, bbe5:958500, bbe6:0, bbe7:0, bbe8:475242, bbe9:59407, bbe10:71476
bbe1:0, bbe2:29716, bbe3:33764, bbe4:41349, bbe5:963415, bbe6:0, bbe7:0, bbe8:475737, bbe9:59510, bbe10:71544
bbe1:0, bbe2:29858, bbe3:33902, bbe4:41523, bbe5:967411, bbe6:0, bbe7:0, bbe8:476004, bbe9:59653, bbe10:71733
bbe1:0, bbe2:30000, bbe3:34074, bbe4:41753, bbe5:972709, bbe6:0, bbe7:0, bbe8:479993, bbe9:59793, bbe10:71863
bbe1:0, bbe2:30097, bbe3:34211, bbe4:41903, bbe5:976434, bbe6:0, bbe7:0, bbe8:482992, bbe9:59933, bbe10:72074
bbe1:0, bbe2:30269, bbe3:34396, bbe4:42117, bbe5:981240, bbe6:0, bbe7:0, bbe8:482992, bbe9:60026, bbe10:72200
bbe1:0, bbe2:30380, bbe3:34522, bbe4:42270, bbe5:984879, bbe6:0, bbe7:0, bbe8:482992, bbe9:60192, bbe10:72374
bbe1:0, bbe2:30569, bbe3:34735, bbe4:42493, bbe5:990669, bbe6:0, bbe7:0, bbe8:482992, bbe9:60297, bbe10:72502
bbe1:0, bbe2:30697, bbe3:34891, bbe4:42685, bbe5:994952, bbe6:0, bbe7:0, bbe8:488612, bbe9:60485, bbe10:72691
bbe1:0, bbe2:30974, bbe3:35008, bbe4:42851, bbe5:99952, bbe6:0, bbe7:0, bbe8:492774, bbe9:60608, bbe10:72851

```

2. Beam Hkws by Change!

bbe1:0	bbe2:26328	bbe3:29766	bbe4:36683	bbe5:853504	bbe6:0	bbe7:0	bbe8:418793	bbe9:56359	bbe10:67787
bbe1:0	bbe2:26328	bbe3:30000	bbe4:36969	bbe5:859921	bbe6:0	bbe7:0	bbe8:424133	bbe9:56550	bbe10:68021
bbe1:0	bbe2:26613	bbe3:30096	bbe4:37089	bbe5:862610	bbe6:0	bbe7:0	bbe8:426693	bbe9:56636	bbe10:68118
bbe1:0	bbe2:26765	bbe3:30286	bbe4:37319	bbe5:867917	bbe6:0	bbe7:0	bbe8:431998	bbe9:56784	bbe10:68315
bbe1:0	bbe2:26863	bbe3:30411	bbe4:37461	bbe5:871157	bbe6:0	bbe7:0	bbe8:433118	bbe9:56878	bbe10:68439
bbe1:0	bbe2:27039	bbe3:30639	bbe4:37713	bbe5:877259	bbe6:0	bbe7:0	bbe8:433921	bbe9:57052	bbe10:68649
bbe1:0	bbe2:27102	bbe3:30749	bbe4:37816	bbe5:879867	bbe6:0	bbe7:0	bbe8:433921	bbe9:57052	bbe10:68649
bbe1:0	bbe2:27301	bbe3:30976	bbe4:38081	bbe5:886476	bbe6:0	bbe7:0	bbe8:436532	bbe9:57119	bbe10:68794
bbe1:0	bbe2:27389	bbe3:31063	bbe4:38179	bbe5:888988	bbe6:0	bbe7:0	bbe8:440226	bbe9:57309	bbe10:69280
bbe1:0	bbe2:27585	bbe3:31322	bbe4:38430	bbe5:895414	bbe6:0	bbe7:0	bbe8:440226	bbe9:57309	bbe10:69280
bbe1:0	bbe2:27669	bbe3:31432	bbe4:38537	bbe5:898317	bbe6:0	bbe7:0	bbe8:440226	bbe9:57309	bbe10:69280
bbe1:0	bbe2:27837	bbe3:31620	bbe4:38772	bbe5:903731	bbe6:0	bbe7:0	bbe8:440226	bbe9:57309	bbe10:69280
bbe1:0	bbe2:27961	bbe3:31726	bbe4:38914	bbe5:907138	bbe6:0	bbe7:0	bbe8:445559	bbe9:57828	bbe10:69375
bbe1:0	bbe2:28126	bbe3:31905	bbe4:39132	bbe5:912149	bbe6:0	bbe7:0	bbe8:447359	bbe9:57949	bbe10:69697
bbe1:0	bbe2:28193	bbe3:32021	bbe4:39262	bbe5:915279	bbe6:0	bbe7:0	bbe8:447359	bbe9:57949	bbe10:69697
bbe1:0	bbe2:28362	bbe3:32219	bbe4:39495	bbe5:920620	bbe6:0	bbe7:0	bbe8:449891	bbe9:58176	bbe10:69989
bbe1:0	bbe2:28442	bbe3:32319	bbe4:39597	bbe5:923130	bbe6:0	bbe7:0	bbe8:455100	bbe9:58420	bbe10:70269
bbe1:0	bbe2:28587	bbe3:32477	bbe4:39805	bbe5:927831	bbe6:0	bbe7:0	bbe8:457619	bbe9:58343	bbe10:70444
bbe1:0	bbe2:28816	bbe3:32599	bbe4:39971	bbe5:931377	bbe6:0	bbe7:0	bbe8:461481	bbe9:58556	bbe10:70444
bbe1:0	bbe2:28882	bbe3:32826	bbe4:40236	bbe5:937397	bbe6:0	bbe7:0	bbe8:461481	bbe9:58556	bbe10:70444
bbe1:0	bbe2:28985	bbe3:32961	bbe4:40365	bbe5:940734	bbe6:0	bbe7:0	bbe8:461481	bbe9:58556	bbe10:70444
bbe1:0	bbe2:29169	bbe3:33157	bbe4:40579	bbe5:946402	bbe6:0	bbe7:0	bbe8:466487	bbe9:59124	bbe10:71091
bbe1:0	bbe2:29284	bbe3:33286	bbe4:40742	bbe5:949839	bbe6:0	bbe7:0	bbe8:466487	bbe9:59124	bbe10:71091
bbe1:0	bbe2:29459	bbe3:33481	bbe4:40966	bbe5:955267	bbe6:0	bbe7:0	bbe8:469807	bbe9:59236	bbe10:71227
bbe1:0	bbe2:29565	bbe3:33591	bbe4:41117	bbe5:958500	bbe6:0	bbe7:0	bbe8:475242	bbe9:59407	bbe10:71476
bbe1:0	bbe2:29716	bbe3:33764	bbe4:41349	bbe5:963415	bbe6:0	bbe7:0	bbe8:475737	bbe9:59510	bbe10:71544
bbe1:0	bbe2:29858	bbe3:33902	bbe4:41523	bbe5:967411	bbe6:0	bbe7:0	bbe8:476004	bbe9:59653	bbe10:71733
bbe1:0	bbe2:30000	bbe3:34074	bbe4:41753	bbe5:972709	bbe6:0	bbe7:0	bbe8:479993	bbe9:59793	bbe10:71863
bbe1:0	bbe2:30097	bbe3:34211	bbe4:41903	bbe5:976434	bbe6:0	bbe7:0	bbe8:482992	bbe9:59933	bbe10:72074
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bbe1:0	bbe2:30380	bbe3:34522	bbe4:42270	bbe5:984879	bbe6:0	bbe7:0	bbe8:482992	bbe9:60192	bbe10:72374
bbe1:0	bbe2:30569	bbe3:34735	bbe4:42493	bbe5:990669	bbe6:0	bbe7:0	bbe8:482992	bbe9:60297	bbe10:72502
bbe1:0	bbe2:30697	bbe3:34891	bbe4:42685	bbe5:994952	bbe6:0	bbe7:0	bbe8:488612	bbe9:60485	bbe10:72691
bbe1:0	bbe2:30974	bbe3:35008	bbe4:42851	bbe5:99952	bbe6:0	bbe7:0	bbe8:492774	bbe9:60608	bbe10:72851

Un gated: Empty

One bucket