Weekly Meeting

August 23 2017

Have gotten DMCPreBats code to work on my brazos account*

#procDets=[int(thd) for thd in inputs['procdets'].split()

Have gotten DMCPreBats code to work on my brazos account*

*Had to comment out section of PreBats code:

```
for ii in range(1,numsubtypes+1):
   ttt=inputs['subtype%d'%ii].split(',')
   simsubtype.append(ttt.pop(0))
   detnumbers.append(map(int, ttt))
   ttt=inputs['DMCInputfile%d'%ii]
   dmc input files.append(ttt)
                                                                                                      DMC to CDMSBats Formatting
   ttt=inputs['pttemplate%d'%ii]
   pt templates.append(ttt)
   if ttt.split('.')[-1] == 'txt':
       template type='text'
   else:
                                                                                    Running Module State: -1
       if inputs.get('temptype%d'%ii) and inputs.get('temptype%d'%ii).strip() !='':
           ttt=inputs.get('temptype%d'%ii).strip()
           template type=ttt
                                                                                    Traceback (most recent call last):
           template type='detspec'
   ttt=inputs['qtemplate%d'%ii]
   q templates.append(ttt)
    dmc pulse dirs.append(str(indir+'/'+simsubtype[ii-1]))
                                                                                    KevError: 'litedets'
   if inputs.get('subrename%d'%ii) and inputs.get('subrename%d'%ii).strip() !='':
                                                                                    (python)[mjwilson@login03 code]$
       simsubtype[ii-1]=inputs.get('subrename%d'%ii).strip()
   if run from previous == 1 :
       ttt=inputs['precalfile%d'%ii]
       precalfiles.append(ttt)
    dmc out dirs.append(str(outdir+'/'+simsubtype[ii-1]))
if mergeformat == 'ROOT':
    merge out dir=str(outdir+'/'+'combined R00T files')
elif mergeformat == 'Binary':
   merge out dir=str(outdir+'/'+'combined Binary fites
#liteDets=[ int(thd) for thd in inputs['litedets'].split()
```

```
Config file found: /home/mjwilson/DMCPreBats/configfile.cfg
 File "launcher.py", line 169, in <module>
   liteDets=[ int(thd) for thd in inputs['litedets'].split() ]
```

- When I comment out those 2 lines, code runs until completion, producing combined root files
- I'm not sure about why this is happening (something to do with configuration file?) or the consequences of removing those lines
- I'm trying to contact DMC people who may know, besides Jorge

 Converted/scaled waveforms get put into txt files, which get read in by PreBats code to turn into root files

```
FET pulses cal 176.txt FET pulses cal 285.txt FET pulses cal 69.txt FET pulses cal 177.txt FET pulses cal 286.txt FET pulses cal 178.txt FET pulses cal 286.txt FET pulses cal 179.txt FET pulses cal 288.txt FET pulses cal 179.txt FET pulses cal 289.txt FET pulses cal 405.txt FET pulses cal 71.txt FET pulses cal 289.txt FET pulses cal 406.txt FET pulses cal 71.txt FET pulses cal 289.txt FET pulses cal 407.txt FET pulses cal 71.txt FET pulses cal 289.txt FET pulses cal 406.txt FET pulses cal 72.txt FET pulses cal 181.txt FET pulses cal 290.txt FET pulses cal 407.txt FET pulses cal 72.txt FET pulses cal 181.txt FET pulses cal 290.txt FET pulses cal 407.txt FET pulses cal 73.txt FET pulses cal 182.txt FET pulses cal 291.txt FET pulses cal 409.txt FET pulses cal 74.txt FET pulses cal 182.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 77.txt FET pulses cal 183.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 77.txt FET pulses cal 184.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 77.txt FET pulses cal 185.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 77.txt FET pulses cal 186.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 76.txt FET pulses cal 186.txt FET pulses cal 292.txt FET pulses cal 409.txt FET pulses cal 76.txt FET pulses cal 186.txt FET pulses cal 294.txt FET pulses cal 409.txt FET pulses cal 76.txt FET pulses cal 77.txt FET pulses cal 186.txt FET pulses cal 294.txt FET pulses cal 410.txt FET pulses cal 76.txt FET pulses cal 77.txt FET pulses cal 186.txt FET pulses cal 295.txt FET pulses cal 411.txt FET pulses cal 79.txt FET pulses cal 412.txt FET pulses cal 79.txt FET pulses cal 412.txt FET pulses cal 79.txt FET pulses cal 414.txt FET pulses cal 81.txt FET pulses cal 299.txt FET pulses cal 414.txt FET pulses cal 81.txt FET pulses cal 81.txt FET pulses cal 299.txt FET pulses cal 414.txt FET pulses cal 81.txt FET pulses cal 81.txt FET pulses cal 414.txt FET pulses cal 81.txt FET pulses cal 81.txt FET pulses cal 414.txt FET 
      FET_pulses_cal_176.txt FET_pulses_cal_285.txt FET_pulses_cal_402.txt FET_pulses_cal_69.txt
                                                                                                                                                                                                                                                                                                                   TES_pulses_cal_179.txt TES_pulses_cal_288.txt TES_pulses_cal_405.txt TES_pulses_cal_71.txt
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TES_pulses_cal_289.txt
TES_pulses_cal_406.txt
TES_pulses_cal_180.txt
TES_pulses_cal_290.txt
TES_pulses_cal_407.txt
TES_pulses_cal_181.txt
TES_pulses_cal_290.txt
TES_pulses_cal_408.txt
TES_pulses_cal_409.txt
TES_pulses_cal_409.txt
TES_pulses_cal_409.txt
TES_pulses_cal_400.txt
TES_pulses_cal_410.txt

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 FET_pulses_cal_191.txt
FET_pulses_cal_300.txt
FET_pulses_cal_419.txt
FET_pulses_cal_301.txt
FET_pulses_cal_419.txt
FET_pulses_cal_301.txt
FET_pulses_cal_419.txt
FET_pulses_cal_301.txt
FET_pulses_cal_419.txt
FET_pulses_cal_303.txt
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FET_pulses_cal_426.txt
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FET_pulses_cal_428.txt
FET_pulses_cal_438.txt
FET_pulses_cal_94.txt
FET_pulses_cal_438.txt
FET_pulses_cal_438.txt
FET_pulses_cal_438.txt
FET_pulses_cal_95.txt
FET_pulses_cal_436.txt
FET_pulses_cal_96.txt
FET_pulses_cal_436.txt
FET_pulses_cal_99.txt
FET_pulses_cal_437.txt
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FET_pulses_cal_448.txt
FET_
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                                                                                                                                                                                                                                                                                                                   TES pulses cal 199.txt TES pulses cal 309.txt TES pulses cal 429.txt TES pulses cal 91.txt
                                                                                                                                                                                                                                                                                                                   TES_pulses_cal_19.txt TES_pulses_cal_30.txt TES_pulses_cal_42.txt TES_pulses_cal_92.txt
                                                                                                                                                                                                                                                                                                                  TES_pulses_cal_1.txt TES_pulses_cal_310.txt TES_pulses_cal_430.txt TES_pulses_cal_93.txt
                                                                                                                                                                                                                                                                                                                   TES_pulses_cal_200.txt TES_pulses_cal_311.txt TES_pulses_cal_431.txt TES_pulses_cal_94.txt
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                                                                                                                                                                                                                                                                                                                   TES_pulses_cal_204.txt TES_pulses_cal_315.txt TES_pulses_cal_436.txt TES_pulses_cal_98.txt
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                                                                                                                                                                                                                                                                                                                   TES_pulses_cal_206.txt TES_pulses_cal_319.txt TES_pulses_cal_439.txt TES_pulses_cal_9.txt
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     FET pulses cal 205.txt FET pulses cal 317.txt FET pulses cal 437.txt FET pulses cal 99.txt
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     FET pulses cal 206.txt FET pulses cal 319.txt FET pulses cal 439.txt FET pulses cal 9.txt
                                                                                                                                                                                                                                                                                                                  TES pulses cal 209.txt TES pulses cal 321.txt TES pulses cal 441.txt
     FET pulses cal 207.txt FET pulses cal 31.txt FET pulses cal 43.txt TES pulses cal 20.txt TES pulses cal 322.txt TES pulses cal 442.txt
     FET_pulses_cal_208.txt FET_pulses_cal_320.txt FET_pulses_cal_440.txt TES_pulses_cal_101.txt TES_pulses_cal_210.txt TES_pulses_cal_324.txt TES_pulses_cal_443.txt
     FET pulses cal 209.txt FET pulses cal 321.txt FET pulses cal 441.txt TES pulses cal 102.txt TES pulses cal 211.txt TES pulses cal 325.txt TES pulses cal 4444.txt
     (python)[mjwilson@login03 text files]$ ^[[2~
```

Working on code that will essentially do the same thing for MIDAS SNOLAB format

```
6.559999999999432e + 01, 5.668645379475429991e + 01, 2.120757518267621222e + 01, 5.703970460546605281e + 00, 7.266267495376055763e + 01, 3.041513273024680331e + 01, 7.076887107793083942e + 00, 1.094701376244246660e + 01, 2.69033484\$
6.7199999999998863 + +01, 5.624590855177339677 + +01, 2.173299762340816343 + +01, 5.847439442039980229 + +00, 7.286465774095424308 + +01, 3.024410710164013949 + +01, 7.395924889862460105 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.024410710164013949 + +01, 3.0244107101640170164017016401701640170164017016401701640170164017016401701640170164017016401701640170164017016401701640170164017016401701640170164017016401701640170164017016401701640170164017016401
6.879999999999716e + 01.5.611115167622307354e + 01.2.157544430940670921e + 01.6.109616722581560744e + 00.7.232638450580304834e + 01.3.058413160865482538e + 01.7.364578381920524386e + 00.1.124552172410096951e + 01.2.67153865\$
7.0400000000000000568e + 01.5.673143357845724921e + 01.2.161516129849950474e + 01.6.441500725795247462e + 00.7.118497454954187731e + 01.3.212029291333778502e + 01.7.562890535569029460e + 00.1.150592471393277094e + 01.2.71957251\$
7.359999999999432e + 01.5.502295857990787908e + 01.2.103774198347603175e + 01.6.492901660419134302e + 00.7.011247157628676518e + 01.3.518830936001076992e + 01.8.360339810618816259e + 00.1.232396870403228917e + 01.2.298087630\$
7.5200000000000000284e + 01, 5.267161476838052181e + 01, 2.094173293083868259e + 01, 6.595446620572610108e + 00, 7.065874637831997518e + 01, 3.617058546072302505e + 01, 8.941271141045504578e + 00, 1.273688061707845343e + 01, 3.14000059\$
7.679999999999716e + 01, 5.001222089530200066e + 01, 2.131849330954835509e + 01, 6.955048396064447580e + 00, 7.002467095342343839e + 01, 3.582892716224846197e + 01, 9.706746212596629064e + 00, 1.272775916913227690e + 01, 3.22112230\$
7.839999999999147e+01, 4.833307655429623395e+01, 2.174391705379494866e+01, 7.199437170236583583e+00, 6.953425732286832783e+01, 3.540352706540576122e+01, 9.813449518085857193e+00, 1.263297977573443909e+01, 3.18466732\$
8.159999999999432e + 01.4.721321451061828611e + 01.2.265999808743274357e + 01.7.266325201959070057e + 00.6.899005656183979340e + 01.3.390411010207327536e + 01.1.139482569267037171e + 01.1.355341398712840650e + 01.3.11747971\$
8.3199999999998863 + +01, 4.630728612176440606 + +01, 2.253140064041033597 + +01, 7.481861968666924767 + +00, 6.778220774875958909 + +01, 3.355218526021029390 + +01, 1.212296903725776609 + +01, 1.407206297366446002 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.25031779 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3.2503179 + +01, 3
8.479999999999716e+01, 4.635984187565252768e+01, 2.202171380501975051e+01, 7.924986641113520136e+00, 6.653166327253509849e+01, 3.38175787882941873e+01, 1.242067601989301373e+01, 1.431576184518424988e+01, 3.45584130\$
8.6400000000000000568e+01, 4.656698075432083073e+01, 2.103915136405250763e+01, 8.105392837973846909e+00, 6.556167687795145582e+01, 3.461504060365790281e+01, 1.251697081602428341e+01, 1.395351827029948133e+01, 3.45524888\$
8.959999999999432e+01, 4.669934398575627199e+01, 1.918901532703193880e+01, 8.363798913510857247e+00, 6.619654018358789926e+01, 3.764943562520263498e+01, 1.233519008596036670e+01, 1.477564922731737695e+01, 3.38963389\$
9.11999999999998863e+01,4.714415269610056214e+01,1.927040885170235995e+01,9.079736369301146581e+00,6.560638162347076729e+01,3.688252546914447549e+01,1.256942618570445624e+01,1.574700938456193988e+01,3.46323710
9.279999999999716e+01.4.762797985780814969e+01.1.998422233668678416e+01.9.798979224360341078e+00.6.650338345323356748e+01.3.634774069655396289e+01.1.259068157496829521e+01.1.603684230049730886e+01.3.42841768
9.43999999999147e+01, 4.780602331855023124e+01, 2.011985172202046712e+01, 1.034180566384743649e+01, 6.802387125625149622e+01, 3.470988554931601300e+01, 1.236831154779534359e+01, 1.624663586244891533e+01, 3.43498411\$
9.759999999999432e + 01, 4.758593104489730763e + 01, 2.129421259911681830e + 01, 9.687124257806786432e + 00, 6.672521997432352237e + 01, 3.316732857803714296e + 01, 1.233312400976309320e + 01, 1.680026124090517925e + 01, 3.40759446\$
9.9200000000000000284e+01.4.802492731581741481e+01.2.206621320908475425e+01.9.129700828804917734e+00.6.522607476755374023e+01.3.250150614888096356e+01.1.246985548848820358e+01.1.2469852704209376455e+01.3.35577079\$
1.0079999999999972e + 02, 4.684830418960764575e + 01, 2.296827217994029979e + 01, 8.944858334362598029e + 00, 6.497453098535277149e + 01, 3.206767577699336158e + 01, 1.240836390057271110e + 01, 1.703011493212552452e + 01, 3.37678591\$
1.0239999999999915e + 02, 4.58886807647430999e + 01, 2.319527511778741058e + 01, 9.565722270289903406e + 00, 6.467700605481896048e + 01, 3.21827916983968302e + 01, 1.191430429847114958e + 01, 1.745822291359175082e + 01, 3.47753561\$
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1.08799999999999829 + 02, 4.365905357518978036 + 01, 2.102341811843927033 + 01, 1.179728783822439553 + 01, 6.555863278368622105 + 01, 1.36799682019816551 + 01, 1.752936847095285344 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.102341811843927033 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.10234181184392703 + 01, 2.1023418184184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.10234184 + 01, 2.1023418184 + 01, 2.1023418184 + 01, 2.10234184 + 01, 2.10234184 + 01, 2.10234184 + 01, 2.10234184 + 01, 2.10234184 + 01, 2.10234184 + 01, 2.10234184 + 01
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1.1519999999999886e + 02, 4.018828546625848475e + 01, 2.180021156158563045e + 01, 1.248658921812821987e + 01, 6.263841545673584221e + 01, 3.249868399078202344e + 01, 1.475062202517853471e + 01, 1.671596389538035510e + 01, 3.49387600\$
1.183999999999915 + +02.3.885711580255475894 + +01.2.103927297358893966 + +01.1.281240364721191938 + +01.6.188807120102027426 + +01.3.483452804420714699 + +01.1.515557355547471552 + +01.1.784789270121309102 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.48684692 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.4868469 + +01.3.
1.199999999999858e + 02, 3.740564110922822749e + 01, 2.076113706780023804e + 01, 1.275629991569213395e + 01, 6.178870789325710433e + 01, 3.494206031607134832e + 01, 1.576746725345916289e + 01, 1.811419572437938541e + 01, 3.61187126\$
1.21599999999999943 + +02, 3.598784807993837376 + +01, 2.122142189307768234 + +01, 1.298761625061109370 + +01, 6.261995270514089640 + +01, 3.626044004609876481 + +01, 1.598696194114280189 + +01, 1.853564753872373316 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.59612139 + +01, 3.5
1.2639999999999773e + 02, 3.279123975857921636e + 01, 2.111574992893391212e + 01, 1.403299107589537975e + 01, 6.122549799140308124e + 01, 3.460535472295305226e + 01, 1.550543711903804400e + 01, 1.976730605633768434e + 01, 3.40592684\$
1.295999999999943e + 02, 3.214098540979667007e + 01, 2.069660120988578811e + 01, 1.406710429579832322e + 01, 6.119597993218111753e + 01, 3.385702741272664440e + 01, 1.531372474726578048e + 01, 1.880514280031905727e + 01, 3.35809012\$
1.31199999999999886e+02.3.219582183872590520e+01,2.072892931744294387e+01,1.446022874243903900e+01,6.110260483133464504e+01,3.333143471270927449e+01,1.496552597562817688e+01,1.782196621316154861e+01,3.36150697
■.328000000000000114e+02,3.177219969232962882e+01,2.147031859039558199e+01,1.427349798487508536e+01,6.096030189184996573e+01,3.235543080485783207e+01,1.604516616488387015e+01,1.751824621877318933e+01,3.43724802$
\overline{1}.3439999999999773e+02,3.137698741519551859e+01,2.250152422547389364e+01,1.413960791290683083e+01,6.169203210844115404e+01,3.193651838865688930e+01,1.676961088327693261e+01,1.779528142597109763e+01,3.53358023
1.360000000000000000+02,3.098594278322925177e+01,2.250840950320397837e+01,1.394888101093622623e+01,6.144593072329892891e+01,3.176310039184718548e+01,1.692334139636114188e+01,1.843795490882338228e+01,3.44910531\$
1.3919999999999886e + 02.3.108557919912797018e + 01.2.195140572336675433e + 01.1.335941407351388932e + 01.5.992698641701228013e + 01.3.262444186898335374e + 01.1.611249314238690644e + 01.1.850578526250030009e + 01.3.50243934$
```

- Challenges
 - Files storage format within output directory pulse data is stored in directories specific to each detector or detector type "subtype". Still learning this formatting
 - Python to c++ conversions*
- I think it makes sense for the DMC MIDAS write to be written in python, but can be persuaded otherwise.

DMC Data Format

				Author and Contact: Matt Wils	on, UofT						
			DMC DATA FORMAT DRAFT V1: Created August 18 '17. Last updated: August 18 '17								
bits			31 30 29 28	27 26 25 24 23 22 21 20 19 18 17 16	15 14 13 12	11 10 9 8 7 6 5 4 3	2 1 0				
			0x1	format version		total n events					
			0x2	SIM se	ries number						
			SIM event ID								
			SIM recoil energy								
			SIM avg x								
			SIM avg y								
			SIM avg z								
			0x3		tors in event	t .					
			detector type								
				detector name (e.g. T1Z2)							
		등	0x4		els in detecto						
		z		channel type		channel num					
		×		channel name (
	x N detectors		0x5 phonon side sum (T/F)								
				n samples			side				
ıts		× 2		samp1		samp0					
x N events				: N		N 4					
z			0.5	sampN		sampN-1					
*			0x6 charge side sum (T/F)								
				n samples			side				
		×		samp1		samp0					
				sampN		sampN-1					
			0x7		total sum (T/						
			UX7	n sample		'1					
				samp1	-3	samp0					
				: :		Sampo					
				sampN		sampN-1					
			0x8		otal sum (T/f						
			n samples								
				samp1		samp0					
				:							
				sampN		sampN-1					
		•	0x9		end						
1 1			1 1 1 1		1 1 1		1 1				

Amy's Email about tasks

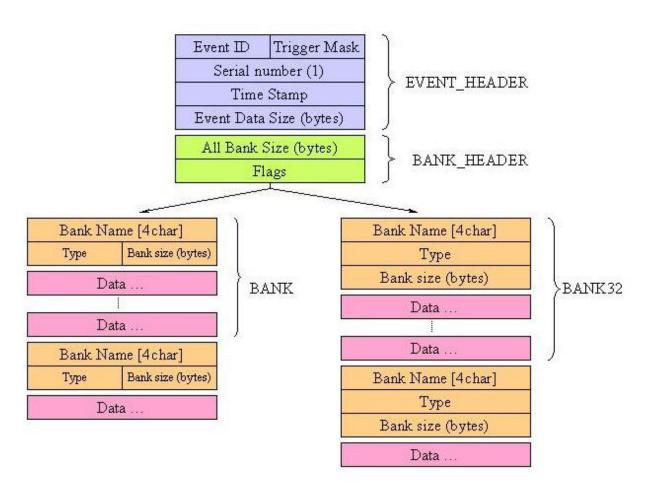
- 1. Test the speed of cdmsbats processing
- Develop programs to make automated DQ decisions about processed data
- 3. Makes system that emails/texts/etc the appropriate people when an alert is logged in the database

Separate discussion

SNOLAB Analysis Meeting

 Noah asked if I could give a talk during the SNOLAB analysis meeting this Friday about IO Library

extra



Author and Contact: Belina von Krosigk, UBC

DATA FORMAT VERSION 1: Created: 05. Feb. '16, Last updated: 30. Jun. '16

bits			31 30 29 28	27 26 25 24	23 22 21 20 19 18 17 16	15 14 13 12	11 10	9 8	7	6	5 4	3	2	1 0
			0x9	0x9 format version=1 total n triggers read										
			0x5 event size in bytes											
			trigger ID											
			trigger type											
			global timestamp low											
			global timestamp high											
			0x7 n primitives in event											
	_				length of entry (=0	0x6 block) in	bytes							
		x N prims	0x6			trig status	pileup		det	ecto	r id		in	ndex
			UT at which rt was issued											
				time fraction rt was run (100nsec/count)										
				time of trig	ger in sec		time rt was run in sec							
			mask	k pairs time fraction of trigger (100nsec/count)										
ers				trigge	r word		р	eak an	nplitu	ude				
N triggers			0x3		n d	etectors in ev	ent							
7		x N dets	0x2		detector type				det	ecto				ndex
×	x N dets			rial number	DCRC1 version	DCRC0 sei						versi	ion	
			0x4	ı	eadout status	series time in sec								
			series time fraction (100nsec/count)											
			0x0	n channels to follow										
			0x1		pre-trigger offse	. ,					ch n	um	ch	type
			n pre-pulse samples											
			n on-pulse samples											
			n post-pulse samples											
			sampling rate high in kHz sampling rate low in kHz											
			samp1			samp0 samp2								
				san	np3			san	np2					
				000	anM.	:		comi	aNI 1					
			sampN total i			sampN-1								
0x8 total n preceding triggers														