

BPM Status

Pengjia Zhu

2013.2.1

What I did:

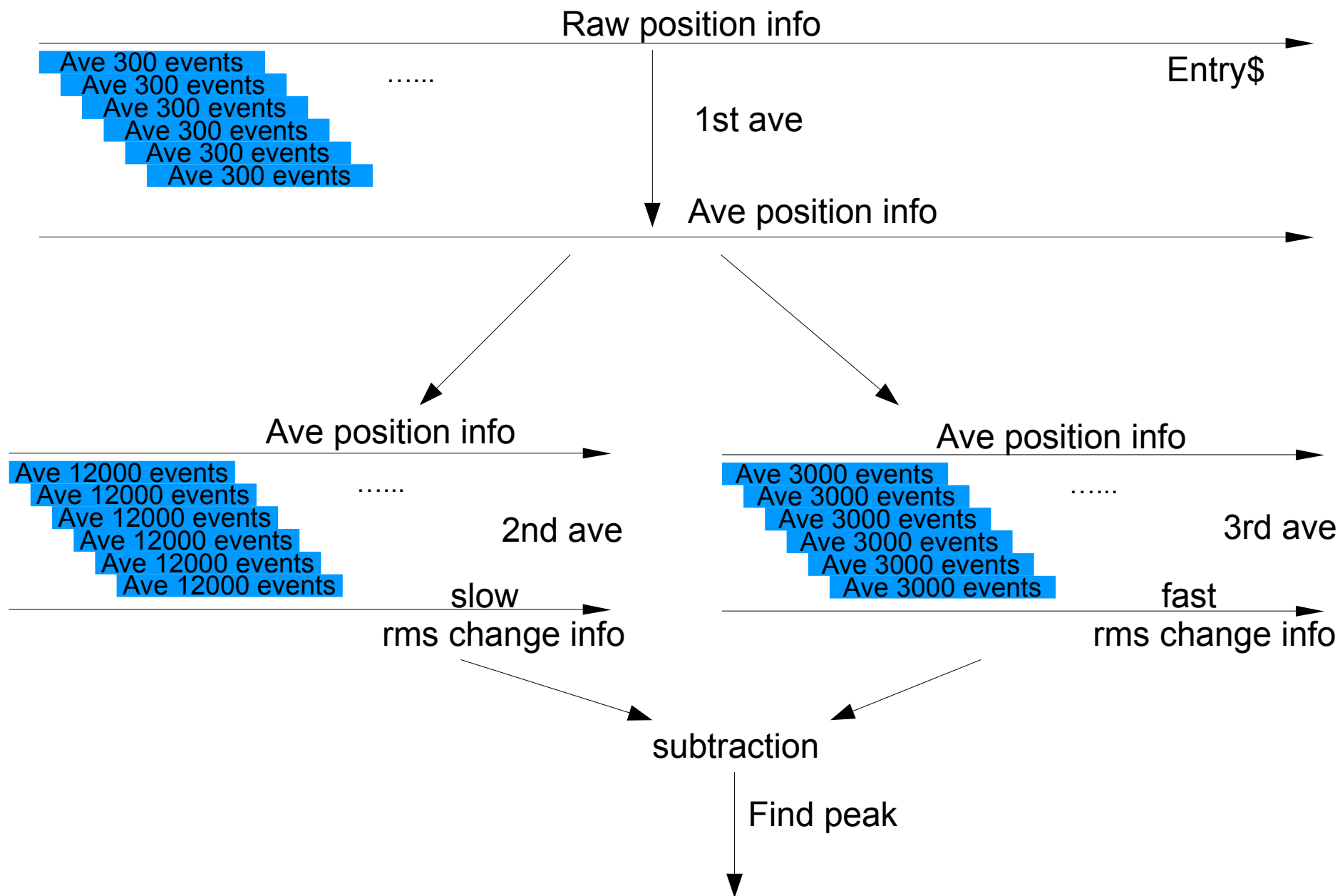
Improved beam move judgement code

Added bpm uncertainty info in tree

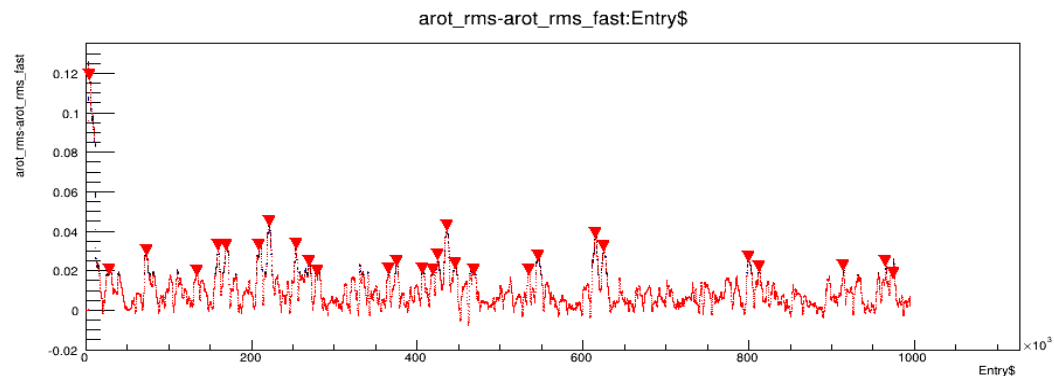
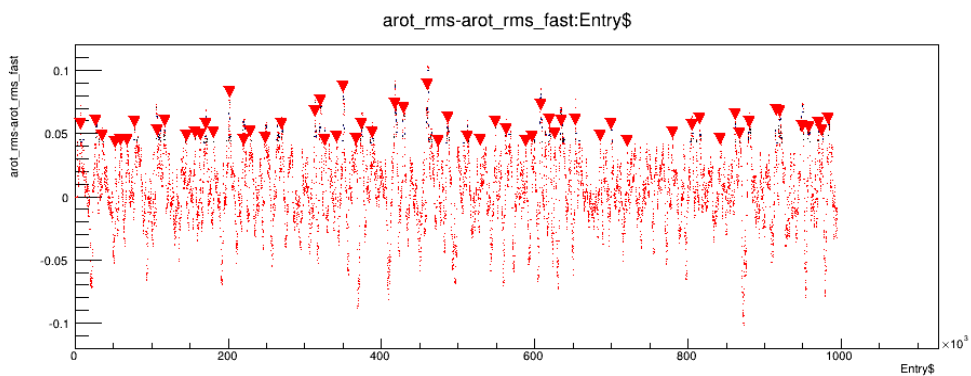
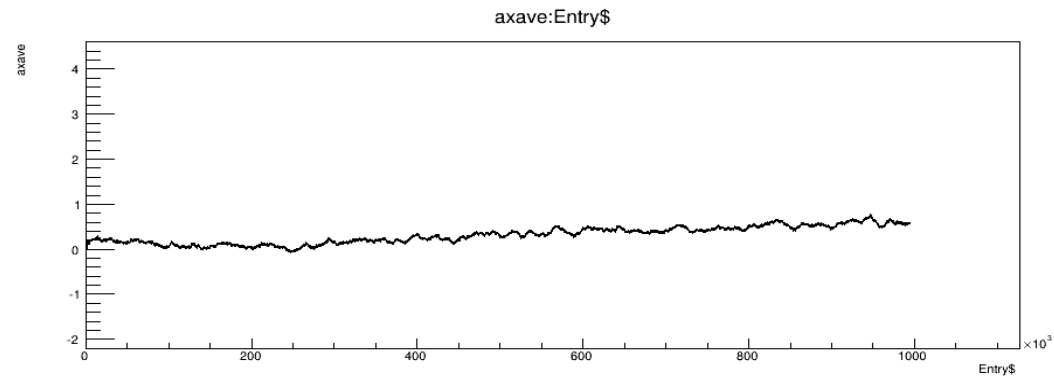
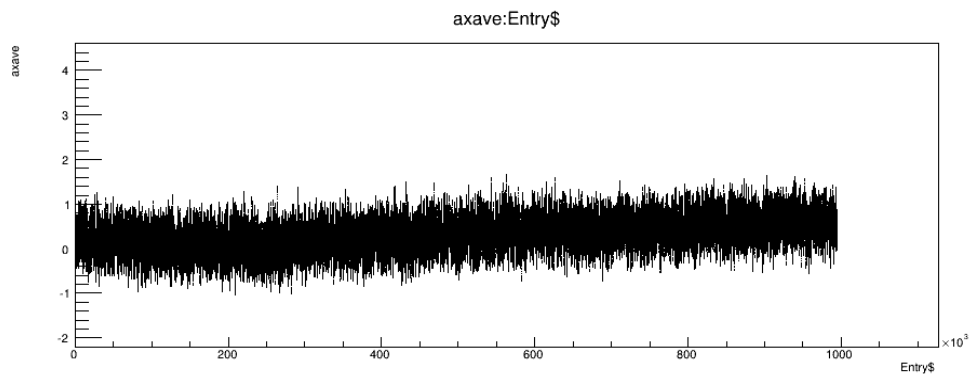
Modified mudifi, now mudifi can export c code with error transfer function

Rebuilt position mapping function for with-field configuration with error transfer

Beam move judgement improve



Needed to improve and test for rastered beam



300 ave events in 1st ave

3000 ave events in 1st ave

Idea 1: use more average events in 1st ave

more average events in 1st ave might drown beam move info, but need to check

Idea 2: use raster phase info to reduce rms

The beampackage can be used for non raster situation now, let me know if any problems found.

For update:

`./bpm.py update`

or copy from `$G2PWORKDISK/codeshare`

For usage:

goto beampackage dir, type "make"

then do `./bpm.py rootfilename`

New mudifi export code

```
#include <math.h>
float* target_x(float*x,float *dx,int m)
{
....
float result[2]={v,dv};
return result;
}
```

with error transfer function

feel free to copy from \$G2PWORKDISK/codeshare

rebuilt position mapping function with new code
--didn't check

Will do in next week:

Improve beam move judgement code for rastered beam

Check position mapping function

...