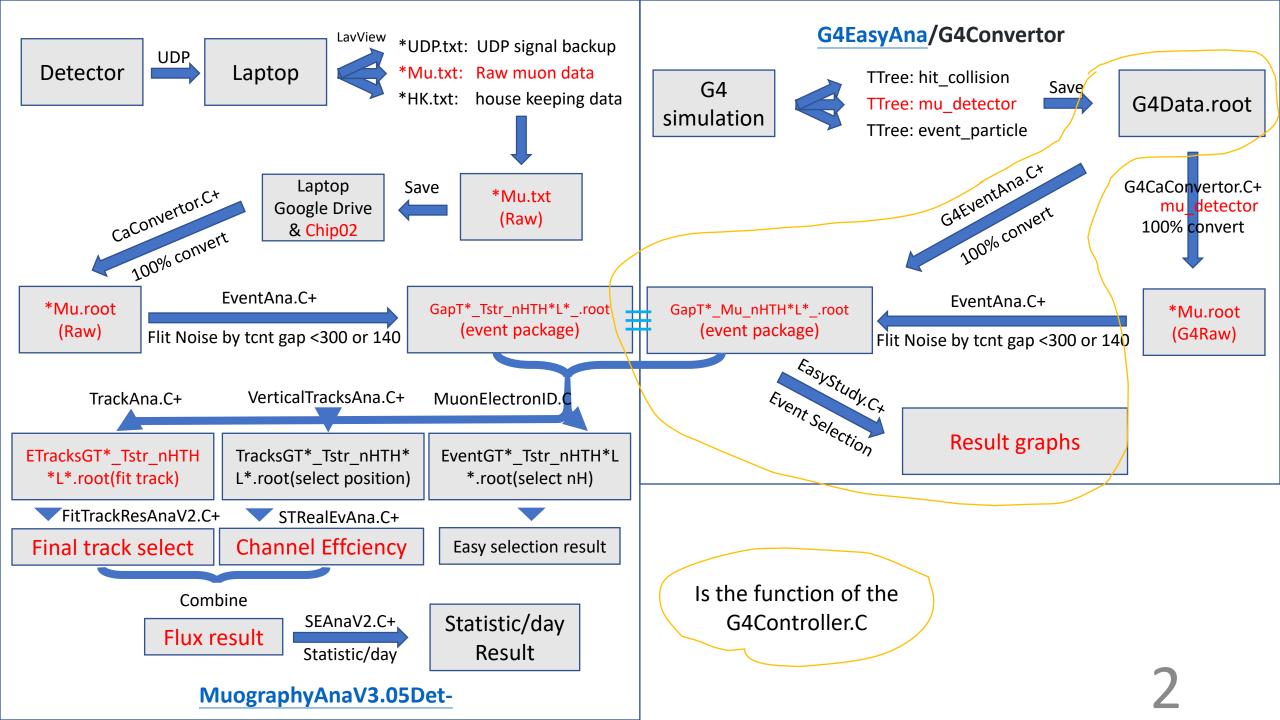


MuographyAnaV3.05Det-

1



```
void %4Controller()
```

## In the G4Controller.C /\*Adjustable variable \*/ const char VectorInputo RootFiles [200] = "/data4/AndyLu/to\_cw/4\_4\_4\_starightbeam\_verveactch Next Page(P4) ;

```
const char OuputGapRootFilePathName [28 ] =
  "/data4/YuSiang/TEST/4_4_4_"
;//Format: Path/Name(GapT*_MC_nHTH*L*.root)
```

```
const char SaveGraphPathName [200] =
"/home/yusiang/G4/4_4_4HorizontaPlamTest/test"
;
/*Finish adjustable variable */
```

This is The Range you need to edit

The constant to devote some noise, almost he need to change

Don't change the fixed format.

## G4Controller.C: ver230316

```
/*Adjustable variable */
const char VectorInputG4RootFiles [200] =
   "/data4/AndyLu/to_cw/4_4_4_starightbeam_merge.roc
;
const char OuputGapRootFilePathName [200] =
   "/data4/YuSiang/TEST/4_4_4_"
;//Format: Path/Name(GapT*_MC_nHTH*L*.root)

const Int_t TriggerLessNumberOfHitInEvent = 1;
const Int_t TriggerLargeNumberOfHitInEvent = 64;
const Int_t MaximumEventGapOfTcnt = 300;//

TString GapFilePathName =
  Form("%sGapT%d_%s_nHTH%dL%d.root",
   OuputGapRootFilePathName,MaximumEventGapOfTcnt,

const char SaveGraphPathName [200] =
   "/home/yusiang/G4/4_4_4HorizontaBeamTest/test"
;
/*Finish adjustable variable */
```

void G4Controller()



TEXT= new function

System operation

This is The Range you need to edit

The constant to devote some noise, almost no need to change

Don't change the fixed format.

```
Improve the include problem
    #include <BeamEasyStudy.C+>
       /*Adjustable variable */
       const char VectorInputG4RootFiles [200] =
         "/data4/AndyLu/to_cw/4_4_4_starightbeam_merge.root"
       const char OuputGapRootFilePath [200] =
         "/data4/YuSiang/TEST/"
       ;//Format: Path/Name(GapT*_MC_nHTH*L*.root)
       const char OuputGapRootFileName [200] =
         "4_4_4_"
       ;//Format: Path/Name(GapT*_MC_nHTH*L*.root)
      char OuputGapRootFilePathName[400];
       sprintf(OuputGapRootFilePathName, "%s%s", OuputGapRootFilePath, OuputGapRootFileName)
       // cout<<OuputGapRootFilePathName<<endl;
       system(Form("mkdir -p %s",OuputGapRootFilePath)); automatically create the directory
       /*Finish adjustable variable */
       const Int_t TriggerLessNumberOfHitInEvent = 1;
       const Int_t TriggerLargeNumberOfHitInEvent = 64;
       const Int t MaximumEventGapOfTcnt
                                                = 300;//Almost don't need to chang
       TString GapFilePathName =
         Form("%sGapT%d_%s_nHTH%dL%d.root",
           OuputGapRootFilePathName, MaximumEventGapOfTcnt, "MC", TriggerLessNumberOfHitInEvent, TriggerLargeNumberOfHitInEvent);
       const char SaveGraphPath
                                      [200] =
       "/home/yusiang/G4/4_4_4HorizontaBeamTest/"
       const char SaveGraphName
                                      [200] =
       "test"
       char SaveGraphPathName[400];
       sprintf(SaveGraphPathName, "%s%s", SaveGraphPath, SaveGraphName);
       // cout<<OuputGapRootFilePathName<<endl:
       system(Form("mkdir -p %s",SaveGraphPath)); ====> automatically create the directory
42
       /*Finish adjustable variable */
43
       /*1. Convert the G4 data to be analysis format: GapT*_MC_nHTH*L*.root*/
       G4EventAna(//Convert the G4 data to be GapT*_MC_nHTH*L*.root
         VectorInputG4RootFiles,
47
         OuputGapRootFilePathName,
48
         TriggerLessNumberOfHitInEvent,
         TriggerLargeNumberOfHitInEvent,
         MaximumEventGapOfTcnt
52
       /*2. Use the analysis format file to Draw Graph*/
       BeamEasyStudy(//Convert the G4 data to be GapT*_MC_nHTH*L*.root
         GapFilePathName.Data(), SaveGraphPathName
```