

ALICE-Juniors Meeting

4 December 2017

Basics of Git and ALICE Software

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Outline

- Why Git ?
- Git from Commands and Manual
- Committing the code (Manual)
- Basics of ALICE Software
- Adding Class in ALIROOT
- Summary

Why Git ?

Google Drive

Uploading a file and replacing

No history of files very hard
to find changes

Not Good for cases When many Peoples
are working on common Project

Git Repository

Uploading a file and replacing

Complete history of files

Very helpful When many Peoples
are working on common Project

Example

My Latest committed class

Red (-ve) : Removed lines

Green (+ve) : Added lines

```
https://github.com/Simple-Shyam/AlPhysics/commit/34def1481756fbeb161ceccf9b1dfa1
103 PWGHF/correlationHF/AlAnalysisTaskSEdplusCorrelations.cxx
@@ -17,6 +17,7 @@
17 Jitendra Kumar: (jtkumar@cern.ch) pp 7TeV and p-Pb 5.02 TeV
18 Shyam Kumar: 13 TeV analysis
19 Last edited by Shyam for offline SE/ME analysis on 24/02/2017
20 + Task updated for cut optimization 11/11/2017 Shyam Kumar
21 */
22
23 #include <Riostream.h>
@@ -106,9 +107,11 @@ fOutput(0x0),
106 fOutputCorr(0x0),
107 fBranchD(),
108 fBranchTr(),
109
110 +fBranchDPlusCutVars(),
111 fTreeD(0x0),
112 fTreeTr(0x0),
113 fFillTrees(kFALSE),
114 +fCutoptDplus(kFALSE),
115 fFractAccME(100),
116 fNtrigDplusInR(0),
117 +fNtrigDplusOutR(0),
118
119 @@ -175,9 +178,11 @@ fOutput(0x0),
175 fOutputCorr(0x0),
176 fBranchD(),
177 fBranchTr(),
178
179 +fBranchDPlusCutVars(),
180 fTreeD(0x0),
181 fTreeTr(0x0),
182 fFillTrees(kFALSE),
183 +fCutoptDplus(kFALSE),
184 fFractAccME(100),
185 fNtrigDplusInR(0),
186 fNtrigDplusOutR(0),
187
188 @@ -257,9 +262,11 @@ fOutput(source.fOutput),
257 fOutputCorr(source.fOutputCorr),
258 fBranchD(source.fBranchD),
259 fBranchTr(source.fBranchTr).
```

```
https://github.com/Simple-Shyam/AlPhysics/commit/34def1481756fbeb161ceccf9b1dfa1
352 fTreeTr=orig.fTreeTr;
353 fFillTrees=orig.fFillTrees;
354 + fCutoptDplus=orig.fCutoptDplus;
355 fFractAccME=orig.fFractAccME;
356 fNtrigDplusInR=orig.fNtrigDplusInR;
357 fNtrigDplusOutR=orig.fNtrigDplusOutR;
358
359 @@ -551,14 +560,21 @@ void AliAnalysisTaskSEdplusCorrelations::UserCreateOutputObjects()
551 //offline code
552 if(fFillTrees) {
553
554 + if(!fCutoptDplus){
555 - fBranchD = new AliHFCorrelationBranchTr();
556 - fBranchTr = new AliHFCorrelationBranchTr();
557
558 fTreeD = new TTree("fTreeD","TTree for D+ mesons");
559 fTreeD->Branch("branchD",&fBranchD);
560
561 + }
562 +
563 + else {
564 + fBranchDPlusCutVars = new AliDplusCutOptim();
565 + fTreeD = new TTree("fTreeD","TTree for Dplus mesons - Vars for Cut Optimization");
566 + fTreeD->Branch("branchD",&fBranchDPlusCutVars);
567 + }
568
569 fTreeTr = new TTree("fTreeTr","TTree for Associated Tracks");
570 fTreeTr->Branch("branchTr",&fBranchTr);
571 + fBranchTr = new AliHFCorrelationBranchTr();
572 + fTreeTr = new TTree("fTreeTr","TTree for Associated Tracks");
573 + fTreeTr->Branch("branchTr",&fBranchTr);
574
575 PostData(6,fTreeD);
576 PostData(7,fTreeTr);
577
578 @@ -823,7 +839,8 @@ void AliAnalysisTaskSEdplusCorrelations::UserExec(Option_t *) {
823 }
824 fHistNDplus->Fill(7);
825
826 - if(!fMixing && fFillTrees)OfflineDplusTree(d,aod);
827 + if(!fMixing && fFillTrees && !fCutoptDplus)OfflineDplusTree(d,aod);
828 + if(fCutoptDplus && fFillTrees) FillTreeDplusForCutOptim(d,aod); //only for offline correlations to optimize Dplus c
```

Git Repository (Good Job)

Git from Commands and Manual

https://github.com/Simple-Shyam/Phd-work

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This is a repository of some of the work: Shyam055119@gmail.com (shyam@IITB)

69 commits 1 branch 0 releases 2 contributors

Branch: master New pull request Find file Clone or download

Simple-Shyam Modified macro for radiation damage

ALICE	code formatting done
Bashscript	Script for Radiation damage Plotting
Fluka Radiation damage study	Alpha Particle
HFPPT	My talk TIFR
Microwave-Plasma simulation	Comsol Simulation for EM waves
PMDEVE	Geom
RDGroupPPT	RD Group PPT
diamond	diamond papers
shyammacro	Modified macro for radiation damage

git clone path →

Clone with HTTPS
Use Git or checkout with SVN using the web URL.
https://github.com/Simple-Shyam/Phd-work
Download ZIP

1. git clone https://..... (It will download and extract both) [Command line]
2. Download Zip: Tar file then just extract [Manual]

After Login

https://github.com/Simple-Shyam/Phd-work

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Simple-Shyam / Phd-work

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This is a repository of some of the work: Shyam055119@gmail.com (shyam@IITB)

Add topics

69 commits 1 branch 0 releases

Branch: master New pull request Create new file Upload files Find file Clone or download

Simple-Shyam Modified macro for radiation damage Latest commit 42050e6 3 days ago

ALICE	code formatting done	7 months ago
Bashscript	Script for Radiation damage Plotting	7 months ago
Fluka Radiation damage study	Alpha Particle	a year ago
HFPPT	My talk TIFR	20 days ago
Microwave-Plasma simulation	Comsol Simulation for EM waves	a year ago
PMDEVE	Geom	a year ago
RDGroupPPT	RD Group PPT	a year ago
diamond	diamond papers	a year ago
shyammacro	Modified macro for radiation damage	3 days ago
start	Start detector of diamond class in PANDA	2 years ago
11708374_906137906111818_1737635703_n(...)	Alice Eventdisplay animation.gif	2 years ago
CV_Shyam.pdf	My CV Updated	19 days ago
DAE-2014.pdf	My DAE first talk on Diamond	2 years ago
HFCJ_Shyam.pdf	My HF Analysis ppt	2 years ago
README.md	Initial commit	2 years ago
ShyamHFCJ_10Oct2015.pdf	My HF Analysis ppt	2 years ago

shyam@shyam-Lenovo-Z51-70: ~/Downloads/Phd-work

File Edit View Search Terminal Help

```
shyam@shyam-Lenovo-Z51-70:~/Downloads$ git clone https://github.com/Simple-Shyam/Phd-work.git
```

```
Cloning into 'Phd-work'...
```

Cloning

```
remote: Counting objects: 914, done.
```

```
remote: Compressing objects: 100% (5/5), done.
```

```
remote: Total 914 (delta 0), reused 0 (delta 0), pack-reused 909
```

```
Receiving objects: 100% (914/914), 494.98 MiB | 280.00 KiB/s, done.
```

```
Resolving deltas: 100% (266/266), done.
```

```
Checking connectivity... done.
```

```
Checking out files: 100% (697/697), done.
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads$ cd Phd-work/
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git status
```

Check the status always

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
nothing to commit, working directory clean
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git pull
```

Download changes

```
Already up-to-date.
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

Lecture_Density_Addition.pdf

Added a file Lecture.... In PhD work but not in repository

```
nothing added to commit but untracked files present (use "git add" to track)
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git add Lecture_Density_Addition.pdf
```

Added a file Lecture....

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git statu
```

```
git: 'statu' is not a git command. See 'git --help'.
```

```
shyam@shyam-Lenovo-Z51-70: ~/Downloads/Phd-work
File Edit View Search Terminal Help
```

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git commit -m "Crystal Structure"
```

```
*** Please tell me who you are.
```

After adding tried to commit

Run

```
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
```

to set your account's default identity.

Omit --global to set the identity only in this repository. Configure username and mail id

```
fatal: unable to auto-detect email address (got 'shyam@shyam-Lenovo-Z51-70.(none)')
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.email shyam055119@gmail.com
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Your Name"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Your Name"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Simple-Shyam"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git commit -m "Crystal Structure"
```

```
[master b167fb0] Crystal Structure
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Lecture_Density_Addition.pdf
```

shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work\$ git push Push the changes on repository

```
warning: push.default is unset; its implicit value has changed in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the traditional behavior, use:
```

```
git config --global push.default matching
```

To squelch this message and adopt the new behavior now, use:

```
git config --global push.default simple
```

When push.default is set to 'matching', git will push local branches to the remote branches that already exist with the same name.

Since Git 2.0, Git defaults to the more conservative 'simple' behavior, which only pushes the current branch to the corresponding remote branch that 'git pull' uses to update the current branch.

See 'git help config' and search for 'push.default' for further information. (the 'simple' mode was introduced in Git 1.7.11. Use the similar mode 'current' instead of 'simple' if you sometimes use older versions of Git)

Username for 'https://github.com': ■

User name : Simple-Shyam

Next line is password enter this will push the changes

to set your account's default identity.
Omit --global to set the identity only in this repository.

```
fatal: unable to auto-detect email address (got 'shyam@shyam-Lenovo-Z51-70.(none)')
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.email shyam055119@gmail.com
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Your Name"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Your Name"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git config --global user.name "Simple-Shyam"
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git commit -m "Crystal Structure"
```

```
[master b167fb0] Crystal Structure
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Lecture_Density_Addition.pdf
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ git push
warning: push.default is unset; its implicit value has changed in
Git 2.0 from 'matching' to 'simple'. To squelch this message
and maintain the traditional behavior, use:
```

Previous Steps

```
git config --global push.default matching
```

To squelch this message and adopt the new behavior now, use:

```
git config --global push.default simple
```

When push.default is set to 'matching', git will push local branches to the remote branches that already exist with the same name.

Since Git 2.0, Git defaults to the more conservative 'simple' behavior, which only pushes the current branch to the corresponding remote branch that 'git pull' uses to update the current branch.

See 'git help config' and search for 'push.default' for further information. (the 'simple' mode was introduced in Git 1.7.11. Use the similar mode 'current' instead of 'simple' if you sometimes use older versions of Git)

```
Username for 'https://github.com': Simple-Shyam
Password for 'https://Simple-Shyam@github.com':
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 731.95 KiB | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Simple-Shyam/Phd-work.git
42050e6..b167fb0 master -> master
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ █
```

Done changes in isto.c in my desktop not in repository (Some time you modified aliroot class)

```
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work$ cd Bashscript/
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ ls
isto.c  mytest.sh  Radiationdamage.sh
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ gedit isto.c
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

modified: isto.c

Do un-changes in code

```
no changes added to commit (use "git add" and/or "git commit -a")
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git checkout -- isto.c
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working directory clean
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ rm -rf isto.c
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ ls
mytest.sh  Radiationdamage.sh
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

deleted: isto.c

```
no changes added to commit (use "git add" and/or "git commit -a")
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git pull
Already up-to-date.
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ ls
mytest.sh  Radiationdamage.sh
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ git checkout -- isto.c
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ ls
isto.c  mytest.sh  Radiationdamage.sh
shyam@shyam-Lenovo-Z51-70:~/Downloads/Phd-work/Bashscript$ █
```

Manually committing (No commands)

https://github.com/Simple-Shyam/Phd-work

72 commits 1 branch 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

Simple-Shyam Test figure Latest commit 3590d92 31 seconds ago

ALICE	code formatting done	7 months ago
Bashscript	Script for Radiation damage Plotting	7 months ago
Fluka Radiation damage study	Alpha Particle	a year ago
HFPPT	My talk TIFR	20 days ago
Microwave-Plasma simulation	Comsol Simulation for EM waves	a year ago
PMDEVE	Geom	a year ago
RDGroupPPT	RD Group PPT	a year ago
diamond	diamond papers	a year ago
shyammacro	Modified macro for radiation damage	3 days ago
start	Start detector of diamond class in PANDA	2 years ago
11708374_906137906111818_1737635703_n...	Alice Eventdisplay animation.gif	2 years ago
15740884_730564363763447_692577684458...	Ionizing and Non-ionizing radiation damage	a minute ago
CV_Sh Yam.pdf	My CV Updated	19 days ago
DAE-2014.pdf	My DAE first talk on Diamond	2 years ago
Figures.jpg	Test figure	21 seconds ago
HFCJ_Sh Yam.pdf	My HF Analysis ppt	2 years ago
Lecture_Density_Addition.pdf	Crystal Structure	18 minutes ago
README.md	Initial commit	2 years ago
ShyamHFCJ_10Oct2015.pdf	My HF Analysis ppt	2 years ago

README.md

ter/Figures.jpg work

Upload file

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15740884_730564363763447_6925776844581277361_n.jpg



Commit changes

Ionizing and Non-ionizing radiation damage

Put the message in this line related to file

Add an optional extended description...

☒ Commit directly to the `master` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

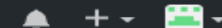
Cancel

Click on commit changes (Very simple) done !!!!!



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⚙ Settings

Branch: master

Phd-work / start / PndPidFtofInfo.cxx

Find file

Copy path

Simple-Shyam Start detector of diamond class in PANDA

3af7e50 on Feb 22, 2016

1 contributor

141 lines (124 sloc) 4.89 KB

Raw

Blame

History



You can also look at the history

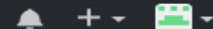
Delete a file if wrongly committed (Edit of delete)

```
1  /* This class can be used for Pid by Stof+Ftof which was initially for Ftof
2  The Fts3 last plane is defined in PndPidCorrpar.h and PndPidCorrpar.cxx as
3  Float_t GetFts3LastPlane() { return fTS3LastPlane; }; and also used the value of FTS3LastPlane as 467 cm
4  and Ftof cut as 36 cm^2 in all.par file*/
5  #include "PndDetectorList.h"
6  #include "PndPidCorrelator.h"
7  #include "PndPidCandidate.h"
8  #include "PndMCTrack.h"
9  #include "PndTrack.h"
10 #include "PndTrackID.h"
11
12 #include "PndFtofHit.h"
13 #include "PndFtofPoint.h"
14
15 #include "FairTrackParH.h"
16 #include "FairMCApplication.h"
17 #include "FairRunAna.h"
18 #include "FairRootManager.h"
19 #include "FairRuntimeDb.h"
20
21 Bool_t PndPidCorrelator::GetFtofInfo(FairTrackParH* helix, PndPidCandidate* pidCand)
22 {
23     if(!helix)
24     {
25         std::cerr << "<Error> PndPidCorrelator::GetFtofInfo: FairTrackParH NULL pointer parameter."<<std::endl;
26         return kFALSE;
27     }
28     if(!pidCand)
```



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View

Binary file not shown.

For deleting again require commit changes put messages



Commit changes

Wrongly committed

Add an optional extended description...

☒ Commit directly to the `master` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)


Commit changes

Cancel



Adding a directory

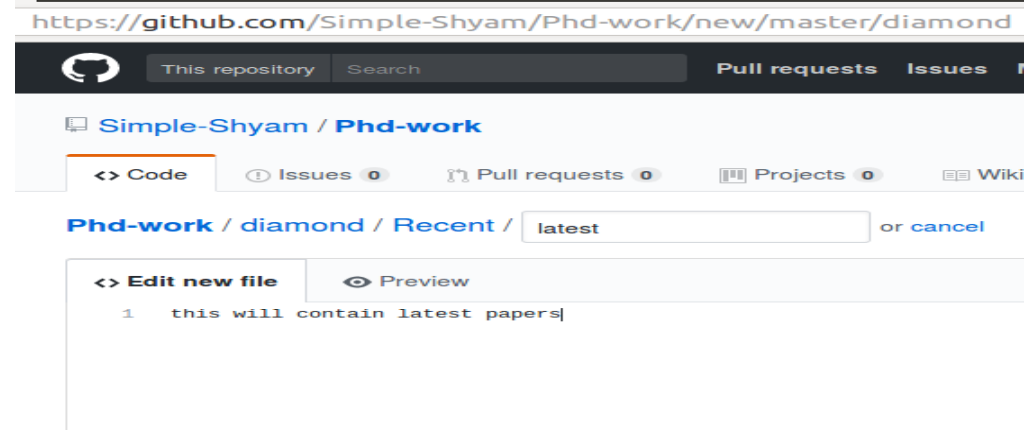
https://github.com/Simple-Shyam/Phd-work/new/master/diamond

**Commit new file**

☒ Commit directly to the `master` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

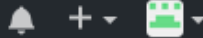
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Branch: master ▾

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Create new file

Upload files

Find file

History

Simple-Shyam diamond papers

Latest commit 2c8b2bc 26 seconds from now

Created directory now you can upload files

Recent

diamond papers

just now

[The- Type -Classification-System-of-Diamonds \(4\).pdf](#)

diamond papers

a year ago



Committing the code (Manual)

https://github.com/Simple-Shyam

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This is a repository of some of the work:
Shyam055119@gmail.com (shyam@IITB)
C++

AliPhysics
Forked from alisw/AllPhysics
ALICE Analysis Repository
C++

Forked repository

96 contributions in the last year

Contribution settings

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2017

2016

2015

Created 6 commits in 1 repository
Simple-Shyam/Phd-work 6 commits

Show more activity

Forked repository

https://github.com/Simple-Shyam/AliPhysics

ALICE Analysis Repository <https://alisw.github.io/git-tutorial> Edit

Add topics

40,625 commits 38 branches 1,468 releases 213 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

This branch is 678 commits behind alisw:master. Pull request Compare

Simple-Shyam D+ Task modified for cut optimization Latest commit 1dd315a 21 days ago

CORRFW	Fix AliCFDataGrid::Copy	4 months ago
EVEANALYSIS	Restore AliLog per module behavior	2 years ago
EVENTMIX	Restore AliLog per module behavior	2 years ago
HLTANALYSIS	HLTANALYSIS: proper FastJet ROOT 5 dict generation	a year ago
JETAN	Fix hardcoded .so in JETAN ROOT6 stanza	a year ago
OADB	SPD FO efficiencies for more runs	25 days ago
PWG	comment 'cout' in track loop	24 days ago
PWGCF	More pairs added to baryonia config	23 days ago
PWGDQ	Add one over pairefficiency squared, create sumw2 also for profiles	26 days ago
PWGGA	Merge pull request #3226 from e-masson/master	24 days ago
PWGHF	D+ Task modified for cut optimization	21 days ago
PWGJE	fix NMatchedTrack binning	24 days ago
PWGLF	Merge pull request #3235 from njacazio/master	23 days ago
PWGMM	keep env.sh as we want to store the train config with the output	26 days ago
PWGPP	ATO-245-Fix to previously introduced bug	24 days ago
PWGUD	Merge pull request #3219 from mbroz84/master	24 days ago
TENDER	PWG/EMCAL and OADB/EMCAL: custom bad channel map feature added to EMC...	a month ago
cmake	Fix ROOT 6 rootmaps for FastJet with static deps	6 months ago
doxygen	Improve Doxygen documentation	4 months ago
test/load_library	Library loading test more modular	2 years ago

After uploading your code just make pull request convener will approve then It will be in AliRoot/AliPhysics [I have always done like this]

https://github.com/Simple-Shyam/AliPhysics/pulls

GitHub

This repository Search


Pull requests Issues Marketplace Explore

Simple-Shyam / AliPhysics
forked from alisw/AliPhysics

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Welcome to Pull Requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#).

 **ProTip!** Adding `no:label` will show everything without a label.

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Conflict came: Click on resolve conflicts (solved my case)

com/alisw/AlIPhysics/pull/3233

Sumd0^2 parameter added #3233

Open Simple-Shyam wants to merge 1 commit into alisw:master from Simple-Shyam:master

Conversation 1 Commits 1 Files changed 2 +89 -0

Simple-Shyam commented 2 hours ago Contributor

No description provided.

Sumd0^2 parameter added Verified 83b7e94

alibuild commented 2 hours ago Collaborator

@Simple-Shyam: there are conflicts in your changes (83b7e94) you need to fix.

You can have a look at the [documentation](#) or you can press the **Resolve conflicts** button and try to fix them from the web interface.

Add more commits by pushing to the **master** branch on **Simple-Shyam/AlIPhysics**.

All checks have failed 1 errored check Hide all checks

review — conflicts

This branch has conflicts that must be resolved Only those with [write access](#) to this repository can merge pull requests.

Resolve conflicts

Conflicting files

PWGHE/correlationHF/AlIDPlushCutOptim.cxx

PWGHE/correlationHF/AlIDPlushCutOptim.h

Write Preview AA B i “ < > ↻ ⋮ ⋮ ⋮ ↶ @

Reviewers
No reviews

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Notifications
Unsubscribe
You're receiving notifications because you were mentioned.

2 participants

Allow edits from maintainers. Learn more

Basics of ALICE Software

```

ALIROOT Documents eve_config fluka KDetSimDist.1.1
shyam@shyam-Lenovo-Z51-70:~$ cd alice/ali-master/AliRoot/
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AliRoot$ git checkout master
Already on 'master'
Your branch is up-to-date with 'origin/master'.
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AliRoot$ git pull
remote: Counting objects: 9343, done.
remote: Total 9343 (delta 6090), reused 6091 (delta 6090), pack-reused 3252
Receiving objects: 100% (9343/9343), 1.80 MiB | 288.00 KiB/s, done.
Resolving deltas: 100% (7851/7851), completed with 547 local objects.
From https://github.com/alismw/AliRoot
  7e24af9..a8760fa  master    -> origin/master
* [new tag]         v5-09-19  -> v5-09-19
* [new tag]         v5-09-19-rc1 -> v5-09-19-rc1
* [new tag]         v5-09-20  -> v5-09-20
* [new tag]         v5-09-20-rc1 -> v5-09-20-rc1
Updating 7e24af9..a8760fa
Fast-forward
 AD/ADbase/ADbaseLinkDef.h
 AD/ADbase/AliADChargeEqualization.cxx
 AD/ADbase/AliADChargeEqualization.h
 AD/ADbase/CMakeLists.txt
 AD/macros/MakeADCDBObjects.C
 AD/macros/MakeADChargeEqualizationEntry.C
 ANALYSIS/ANALYSIS/AliAnalysisTask.cxx
 ANALYSIS/ANALYSIS/alice/AliAnalysisTaskPIDqa.cxx
 ANALYSIS/ANALYSIS/alice/AliAnalysisTaskSE.cxx
 ANALYSIS/ANALYSIS/alice/AliAnalysisTaskSE.h
 CMakeLists.txt
 DRGEN/AliGenDRgen.cxx
 DRGEN/AliGenDRgen.h
 DRGEN/CMakeLists.txt
 DRGEN/Config.C
 DRGEN/DRGENLinkDef.h
 DRGEN/DRGENcommon.h
 DRGEN/PP_gen.f
 DRGEN/README
 DRGEN/TDRgen.cxx
 DRGEN/TDRgen.h
 EMCAL/EMCALTriggerBase/AliEMCALTriggerOnlineQAPP.cxx
 EMCAL/EMCALUtils/AliEMCALRecoUtils.cxx
 EMCAL/EMCALUtils/AliEMCALRecoUtils.h
 EMCAL/macros/TestData/TestAOD.C

```

Go into the AliRoot directory, and do:

git fetch --all

git reset --hard v5-09-20

You can proceed with aliBuild normally.

1	
30	
3	-
18	-
23	
18	-
11	-
17	-
8	-
2	-
243	
49	
84	
1804	
10	
49	
7318	
16	
173	
39	
8	-
8	-
2	-
30	-

Update AliPhysics

```
Applications Places
shyam@shyam-Lenovo-Z51-70: ~/alice/ali-master/AlIPhysics
File Edit View Search Terminal Help
create mode 100644 STAT/test/testDrawArrayHisto.C
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AlIRoot$ clear

shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AlIRoot$ cd ~/AlIPhysics/
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AlIPhysics$ git checkout master
Already on 'master'
Your branch is up-to-date with 'origin/master'.
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AlIPhysics$ git pull
remote: Counting objects: 3244, done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 3244 (delta 1916), reused 1939 (delta 1911), pack-reused 1293
Receiving objects: 100% (3244/3244), 29.97 MiB | 281.00 KiB/s, done.
Resolving deltas: 100% (2445/2445), completed with 689 local objects.
From https://github.com/alishw/AlIPhysics
   a8fcd8c..12cfa36  master       -> origin/master
* [new branch]      rc/TEST-IGNORE-vAN-20171123 -> origin/rc/TEST-IGNORE-vAN-20171123
* [new tag]         VAN-20171202 -> VAN-20171202
* [new tag]         TEST-IGNORE-vAN-20171117 -> TEST-IGNORE-vAN-20171117
* [new tag]         v5-09-19-01 -> v5-09-19-01
* [new tag]         v5-09-19-01-rc1 -> v5-09-19-01-rc1
* [new tag]         v5-09-20-01 -> v5-09-20-01
* [new tag]         v5-09-20-01-rc1 -> v5-09-20-01-rc1
* [new tag]         VAN-20171112 -> VAN-20171112
* [new tag]         VAN-20171113 -> VAN-20171113
* [new tag]         VAN-20171114 -> VAN-20171114
* [new tag]         VAN-20171115 -> VAN-20171115
* [new tag]         VAN-20171116 -> VAN-20171116
* [new tag]         VAN-20171117 -> VAN-20171117
* [new tag]         VAN-20171118 -> VAN-20171118
* [new tag]         VAN-20171119 -> VAN-20171119
* [new tag]         VAN-20171120 -> VAN-20171120
* [new tag]         VAN-20171121 -> VAN-20171121
* [new tag]         VAN-20171122 -> VAN-20171122
* [new tag]         VAN-20171123 -> VAN-20171123
* [new tag]         VAN-20171124 -> VAN-20171124
* [new tag]         VAN-20171125 -> VAN-20171125
* [new tag]         VAN-20171126 -> VAN-20171126
* [new tag]         VAN-20171127 -> VAN-20171127
* [new tag]         VAN-20171128 -> VAN-20171128
* [new tag]         VAN-20171129 -> VAN-20171129
* [new tag]         VAN-20171130 -> VAN-20171130
* [new tag]         VAN-20171201 -> VAN-20171201
Updating a8fcd8c..12cfa36
Fast-forward
 .gitattributes
 OADB/AlIEventCuts.cxx
```

Always check git status
It will tell if some files are modified, It can
create problem in building


```

Applications Places
shyam@shyam-Lenovo-Z51-70: ~/alice/ali-master
File Edit View Search Terminal Help
create mode 100644 PWGCF/EBYE/macros/AddTaskAccCont.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KchKchRun2/pp_13TeV/AddTaskFemtoKchHBT1090.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KchKchRun2/pp_13TeV/ConfigFemtoAnalysis.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KchKchRun2/pp_13TeV_mult/AddTaskFemtoKchHBT1090.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KchKchRun2/pp_13TeV_mult/ConfigFemtoAnalysis.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KpmHBT_MC/Nov2017/AddTaskFemtoKpmLocal.C
create mode 100644 PWGCF/FEMTOSCOPY/macros/Train/KpmHBT_MC/Nov2017/ConfigFemtoAnalysis.C
rename PWGCF/FLOW/Documentation/doxygen/{README.txt => README.md} (100%)
create mode 100644 PWGCF/FLOW/macros/AddTaskV1SingleMu.C
create mode 100644 PWGDQ/dielectron/macrosLMEE/AddTask_miweber_LMEE_V0.C
create mode 100644 PWGDQ/dielectron/macrosLMEE/Config_miweber_LMEE_V0.C
create mode 100644 PWGHF/HFMuFlow/AddTaskV1SingleMu.C
create mode 100644 PWGHF/HFMuFlow/AliAnalysisTaskV1SingleMu.cxx
create mode 100644 PWGHF/HFMuFlow/AliAnalysisTaskV1SingleMu.h
create mode 100755 PWGHF/HFMuFlow/CMakeLists.txt
create mode 100644 PWGHF/HFMuFlow/PWGHFHFMuFlowLinkDef.h
create mode 100644 PWGHF/hfe/macros/nonHFEcorrect_XeXe.root
create mode 100644 PWGHF/hfe/macros/nonHFEcorrect_pp7.root
create mode 100644 PWGJE/EMCALJetTasks/UserTasks/AliAnalysisTaskRecursiveSoftDrop.cxx
create mode 100644 PWGJE/EMCALJetTasks/UserTasks/AliAnalysisTaskRecursiveSoftDrop.h
create mode 100644 PWGJE/EMCALJetTasks/UserTasks/AliAnalysisTaskSoftDropResponse.cxx
create mode 100644 PWGJE/EMCALJetTasks/UserTasks/AliAnalysisTaskSoftDropResponse.h
create mode 100644 PWGJE/EMCALJetTasks/macros/AddTaskRecursiveSoftDrop.C
create mode 100644 PWGLF/RESONANCES/macros/mini/AddTaskPhiXeXe.C
create mode 100644 PWGLF/RESONANCES/macros/mini/ConfigPhiXeXe.C
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/MCAAnchor/tabDCA.html
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/MCAAnchor/tabEff.html
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/MCAAnchor/tabEvent.html
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/MCAAnchor/tabNcl.html
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/MCAAnchor/tabdEdx.html
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/READMEjsrootQA.md
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/tpcCalibValidation.C
create mode 100644 PWGPP/TPC/macros/TPCQAWebpage/tpcMCValidation.sh
create mode 100644 PWGPP/scripts/html/tableBrowser.html
create mode 100644 PWGPP/scripts/html/tableBrowser_v1.html
create mode 100755 PWGPP/scripts/makeHtml.sh
create mode 100755 PWGPP/scripts/makeHtmlv1.sh
create mode 100644 PWGUD/UPC/AddTaskTOFTrigger.C
create mode 100644 PWGUD/UPC/AliAnalysisTaskTOFTrigger.cxx
create mode 100644 PWGUD/UPC/AliAnalysisTaskTOFTrigger.h
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master/AliPhysics$ cd ..
shyam@shyam-Lenovo-Z51-70:~/alice/ali-master$ aliBuild -z -w ../sw -d build AliPhysics
DEBUG: User has analytics id. Pushing analytics to Google Analytics.
DEBUG: Building for architecture ubuntu1604_x86-64
DEBUG: Number of parallel builds: 4

```

Finally run the command below in the specified directory and follow instruction

```

Applications Places
shyam@shyam-Lenovo-Z51-70: ~/alice/sw/BUILD/AlPhysics-latest-ali-master
File Edit View Search Terminal Help
86c849de170fd45bf6f14236500b46a2be13b7f4 AliPhysics-latest-ali-master AliRoot-latest-ali-master
AliPhysics-latest AliRoot-latest fbb951481ca154e8587066b203d5308142b3262a
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD$ cd AliRoot-latest-ali-master
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AlPhysics-latest-ali-master$ make
make: *** No targets specified and no makefile found. Stop.
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AlPhysics-latest-ali-master$ cd AliRoot/
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AlPhysics-latest-ali-master/AlRoot$ make
[ 2%] Built target STEERBase-object
[ 2%] Built target STEERBase
[ 2%] Built target libSTEERBase.rootmap
[ 2%] Built target TestAliFileUtilities
[ 4%] Built target ESD-object
[ 4%] Built target ESD
[ 4%] Built target libESD.rootmap
[ 5%] Built target AOD-object
[ 5%] Built target AOD
[ 5%] Built target libAOD.rootmap
[ 5%] Built target STAT-object
[ 5%] Built target STAT
[ 6%] Built target CDB-object
[ 6%] Built target CDB
[ 6%] Built target libCDB.rootmap
[ 9%] Built target STEER-object
[ 9%] Built target RAWDatabase-object
[ 9%] Built target RAWDatabase
[ 9%] Built target RAWDatarec-object
[ 9%] Built target RAWDatarec
[ 9%] Built target ANALYSIS-object
[ 9%] Built target ANALYSIS
[ 9%] Built target AliHLTHOMER-object
[ 9%] Built target AliHLTHOMER
[10%] Built target HLTbase-object
[10%] Built target HLTbase
[10%] Built target STEER
[10%] Built target libSTEER.rootmap
[11%] Built target test_helpers
[11%] Built target alisync
[11%] Built target test_alisync01
[11%] Built target alihadd
[11%] Built target libRAWDatabase.rootmap
[11%] Built target libRAWDatarec.rootmap
[12%] Built target RAWDasim-object
[12%] Built target RAWDasim
[12%] Built target libRAWDasim.rootmap
[12%] Built target RAWDatarecOnline-object
[12%] Built target RAWDatarecOnline

```

You can build on this path also [AliRoot]

What Exactly make do ????


```

Applications Places
shyam@shyam-Lenovo-Z51-70: ~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics
File Edit View Search Terminal Help
[100%] Built target alivdtwrapper
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliRoot-latest-ali-master/AliRoot$ cd ../
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliRoot-latest-ali-master$ cd ../
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD$ cd AliPhysics-latest
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest$ cd ..
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD$ cd AliPhysics-latest-ali-master
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master$ ls
AliPhysics  log
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master$ cd cd AliPhysics/
bash: cd: cd: No such file or directory
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master$ ls
AliPhysics  log
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master$ cd AliPhysics/
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics$ clear
shyam@shyam-Lenovo-Z51-70:~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics$ make

```

You can build on this path also [AliPhysics]

How #include “example.h” works in classes we never give the path? ??

example.h can be anywhere.

Adding Class in ALIROOT

sign out | Shyam Kumar ▾

 Find Someone

Options ▾ ? ▾

shyam@shyam-OptiPlex-9020:~/alice/ali-master/AliPhysics/PWGHF/correlationHF\$ ls

AliAnalysisHFCorrOnFlySim.cxx	AliAnalysisTaskSEHFCJqa.h	AliDxHFECorrelationMC.cxx	AliDxHFEToolsMC.h	
AliHFDhadronCorrSystUnc.cxx				
AliAnalysisHFCorrOnFlySim.h	AliAnalysisTaskSEmcCorr.cxx	AliDxHFECorrelationMC.h	AliHFAssociatedTrackCuts.cxx	
AliHFDhadronCorrSystUnc.h				
AliAnalysisTaskDStarCorrelations.cxx	AliAnalysisTaskSEmcCorr.h	AliDxHFEParticleSelection.cxx	AliHFAssociatedTrackCuts.h	
AliHFDmesonCorrAverage.cxx				
AliAnalysisTaskDStarCorrelations.h	AliD0hCutOptim.cxx	AliDxHFEParticleSelectionD0.cxx	AliHFCorrelationFDsubtraction.cxx	
AliHFDmesonCorrAverage.h				
AliAnalysisTaskDxHFECorrelation.cxx	AliD0hCutOptim.h	AliDxHFEParticleSelectionD0.h	AliHFCorrelationFDsubtraction.h	
AliHFOfflineCorrelator.cxx				
AliAnalysisTaskDxHFECorrelation.h	AliDhCorrelationExtraction.cxx	AliDxHFEParticleSelectionEl.cxx	AliHFCorrelationUtils.cxx	
AliHFOfflineCorrelator.h				
AliAnalysisTaskDxHFEParticleSelection.cxx	AliDhCorrelationExtraction.h	AliDxHFEParticleSelectionEl.h	AliHFCorrelationUtils.h	
AliReducedParticle.cxx				
AliAnalysisTaskDxHFEParticleSelection.h	AliDPlushCutOptim.cxx	AliDxHFEParticleSelection.h	AliHFCorrelator.cxx	
AliReducedParticle.h				
AliAnalysisTaskSED0Correlations.cxx	AliDPlushCutOptim.h	AliDxHFEParticleSelectionMCD0.cxx	AliHFCorrelator.h	
CMakeLists.txt				
AliAnalysisTaskSED0Correlations.h	AliDstarhCutOptim.cxx	AliDxHFEParticleSelectionMCD0.h	AliHFCorrFitSystematics.cxx	macros
AliAnalysisTaskSEDplusCorrelations.cxx	AliDstarhCutOptim.h	AliDxHFEParticleSelectionMCEl.cxx	AliHFCorrFitSystematics.h	
PWGHFcorrelationHFLinkDef.h				
AliAnalysisTaskSEDplusCorrelations.h	AliDxHFECorrelation.cxx	AliDxHFEParticleSelectionMCEl.h	AliHFCorrFitter.cxx	
AliAnalysisTaskSEHFCJqa.cxx	AliDxHFECorrelation.h	AliDxHFEToolsMC.cxx	AliHFCorrFitter.h	

shyam@shyam-OptiPlex-9020:~/alice/ali-master/AliPhysics/PWGHF/correlationHF\$

Then just recompile correlationHF directory as shown in step 1. I have recently added these two classes (red colour) so I have done it.

You can build also specified directory [correlationHF]

There are two cases for modification

1. You just modify the existing code in AliPhysics, then just you have to recompile it, If in correlationHF (It will reduce time) just recompile only correlationHF for that just go to the path:

```
//=====Compiling only correlationHF=====
```

```
shyam@shyam-OptiPlex-9020:~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics/PWGHF/correlationHF$ ls
```

```
CheckParPWGHFcorrelationHF.C  cmake_install.cmake  G_PWGHFcorrelationHF.cxx  libPWGHFcorrelationHF.rootmap  Makefile
CMakeFiles                    CTestTestfile.cmake  G_PWGHFcorrelationHF.h  libPWGHFcorrelationHF.so      PARfiles
```

```
shyam@shyam-OptiPlex-9020:~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics/PWGHF/correlationHF$ make or make install
```

make install will be better because It will install also.

```
//=====Compiling AliPhysics=====
```

```
shyam@shyam-OptiPlex-9020:~/alice/sw/BUILD/AliPhysics-latest-ali-master/AliPhysics$ make or make install
```

similar, If you want to compile changes and install in any other directory just go on that directory in this path.

2. If you included a completely new code like I have done AldPlushCutOptim.h and .cxx. Then you have to put it in

CMakeLists.txt and PWGHFcorrelationHFLinkDef.h like other classes are there.

```
shyam@shyam-OptiPlex-9020:~/alice/ali-master/AliPhysics/PWGHF/correlationHF$ ls
```

```
AliAnalysisHFCorrOnFlySim.cxx      AliAnalysisTaskSEHFCJqa.h      AliDxHFECorrelationMC.cxx      AliDxHFEToolsMC.h
```

```
AliHFDhadronCorrSystUnc.cxx
```

```
AliAnalysisHFCorrOnFlySim.h      AliAnalysisTaskSEmcCorr.cxx    AliDxHFECorrelationMC.h      AliHFAssociatedTrackCuts.cxx
```

```
AliHFDhadronCorrSystUnc.h
```

```
AliAnalysisTaskDStarCorrelations.cxx  AliAnalysisTaskSEmcCorr.h      AliDxHFEParticleSelection.cxx  AliHFAssociatedTrackCuts.h
```

```
AliHFDmesonCorrAverage.cxx
```

```
AliAnalysisTaskDStarCorrelations.h  AliD0hCutOptim.cxx            AliDxHFEParticleSelectionD0.cxx  AliHFCorrelationFDsubtraction.cxx
```

Summary

Play with Git commands as much as you can on your local repository !!!!!

Try Other git commands on your repository given in link below

<https://confluence.atlassian.com/bitbucketserver/basic-git-commands-776639767.html>

Thank You