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B2hh Data page

These pages contain the link to current activities

LHCb Twiki Page

B2hh data production

Starting up

- First of all get latest DaVinci
- Compile
- Setup ganga using GangaEnv
- Submit jobs using job/DaVinci_ganga.py properly modified
- Get grid data cards from bkk page [↗](#)
 - ◆ DC06 data (30/05/08) and instructions can be found here

Submitted jobs

Several Grid jobs have been submitted to create the microDST(s). Data can be found under the `/castor/cern.ch/grid/lhcb/user/a/asarti/` dir.

ganga job	type	dirac jobnum
1390	1st half Bdpipi	574039 -> 068
1391	2nd half Bdpipi	
1392	BsKK	574081
1393	BsKpi	574083 -> 84
1394	1st half BdKpi	574088 -> 99
1395	2nd half BdKpi	574109 -> 23

DST

```
// Include rDST objects
#include "$STDOPTS/rDstContent.opts"

// If DST comes from stripping ETC, add also selection results
DstWriter.Preload = false;
DstWriter.ItemList += {"/Event/Phys#99"};
DSTOR.ItemList = @DstWriter.ItemList ;
DstWriter.OptItemList = {};

#include "$STDOPTS/MCDstContent.opts" // remove for real data or when running on rDST

ApplicationMgr.OutStream += { "DSTOR" } ;
DSTOR.RequireAlgs = { "SelB2HH" };
DSTOR.OutputLevel = 1;
DSTOR.Output = "DATAFILE='prova.dst' TYP='POOL_ROOTTREE' OPT='RECREATE'";
```

microDST

Those instructions can be used to create microDST.

```
#include "$MICRODSTALGORITHMROOT/options/microDST.opt"

SeqDC06selBs2Jpsi2MuMu_Phi2KK.Members += {"CreateMicroDSTAlg/microDST"};
```

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```
SeqDC06selBs2Jpsi2MuMu_Phi2KK.Members += {"CreateMicroDSTMAlg/microDSTMC"};
SeqDC06selBs2Jpsi2MuMu_Phi2KK.Members += {"CopyMCParticles"};

microDST.PhysDesktop.InputLocations = {"Event/Phys/DC06selBs2Jpsi2MuMu_Phi2KK"};
microDST.OutputLevel = 4;

microDSTMC.PhysDesktop.InputLocations = {"Event/Phys/DC06selBs2Jpsi2MuMu_Phi2KK"};
microDSTMC.OutputLevel = 4;

CopyMCParticles.InputLocation = "MC/Particles";
CopyMCParticles.OutputLevel = 4;

DSTStream.Output = "DATAFILE='$PATHTOOUTPUT/Filename.micro.dst'
TYP='POOL_ROOTTREE' OPT='REC'";
```

When running against Stripped you should add something more:

```
EventSelector.Input = {
"COLLECTION='TagCreator/1'
DATAFILE='PFN:castor:/castor/PATHTOINPUT/INPUT_00002042_00000001_2.root
' TYP='POOL_ROOT'"
};

ApplicationMgr.ExtSvc += { "TagCollectionSvc/EvtTupleSvc" };
FileCatalog.Catalogs = { "xmlcatalog_file:$PATHTOINPUT/INPUT.xml" } ;
```

Python

MyGaudiPythonStart.py (from Angelo and stefano perazzini)

Official selection

/afs/cern.ch/lhcb/software/releases/ANALYSIS/ANALYSIS_v1r12/PhysSel/B2uds/v2r6p2/options/DVSelB2HH.opts

-- AlessioSarti - 05 Jun 2008

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