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Migration of CMSSW software from 4_2_4 version to 6_2_0

What needs to be done:

- Migration of DQM
- Finish migration of TUDAS
- Move branch to trunk
- Tests by developers
- Make list of changes in geometry for developers of T1 and T2

To run your configurations, which are not in repository, you may need to make some changes:

```cpp
-process.load("SimGeneral.MixingModule.mixNoPU_cfi")
+process.load("Configuration.TotemCommon.mixNoPU_cfi")

-RandomNumberGeneratorService = cms.Service("RandomNumberGeneratorService",
   sourceSeed = cms.untracked.uint32(13579097),
   moduleSeeds = cms.PSet(
      g4SimHits = cms.untracked.uint32(9876),
      )
   )
+RandomNumberGeneratorService = cms.Service("RandomNumberGeneratorService",
   g4SimHits = cms.PSet(initialSeed = cms.untracked.uint32(9876))
   )

Where necessary, set process label. e.g.:
+process.RPClustProd.DigiLabel = cms.InputTag("RPSiDetDigitizer")

Some labels for reconstructing Raw Data:

process.Raw2DigiProducer rpDataProductLabel = cms.untracked.string(""");
process.Raw2DigiProducer rpCCProductLabel = cms.untracked.string(""")
process.TriggerBits.StripDigilabel = cms.InputTag("Raw2DigiProducer")
process.RPCC DetTriggerlabel = cms.InputTag("TriggerBits")
process.RPClustProd.DigiLabel = cms.InputTag("Raw2DigiProducer")
Database access (TUDAS Migration)

TOTEM Software with TUDAS can be found on special branch:
totem/branches/CMSSW_6_2_0_with_tudas/

TUDAS is not fully migrated.

What is done:

- Migration of TOTEM software modules related to TUDAS:
  - TotemUnifiedDatabaseAccessService/Generated
  - TotemUnifiedDatabaseAccessService/Tudas
  - TotemUnifiedDatabaseAccessService/RPAlignmentESSource
  - TotemUnifiedDatabaseAccessService/TudasRPDataFormats (moved from other package)

- Migration of ICE Library:
  - It can be found in TOTEM afs directory:
    /afs/cern.ch/exp/totem/soft/cmssw620externals/cmssw620-ice/ice-gcc472

What needs to be done:

- Migration of tudas library
  - /afs/cern.ch/exp/totem/soft/database/tudas
  - /afs/cern.ch/exp/totem/soft/database/tudas/tool/tudas.xml to branch
    /branches/CMSSW_6_2_0_with_tudas/config/toolbox/slcr6_amd64_gcc472/tools/selected/

- Add to repository ice libraries if it is necessary.
  - to directory CMSSW_6_2_0_with_tudas/external/slcr6_amd64_gcc472/lib

This topic: TOTEM > CompOfflineCMSSWMigration424to620
Topic revision: r4 - 2013-09-26 - PawelSikora