Table of Contents

Migration of CMSSW software from 4_2_4 version to 6_2_0..................................................................................1

Database access (TUDAS Migration).................................................................................................................2
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
// Original:
process.load("SimGeneral.MixingModule.mixNoPU_cfi")

// Modified:
process.load("Configuration.TotemCommon.mixNoPU_cfi")

// Original:
RandomNumberGeneratorService = cms.Service("RandomNumberGeneratorService",
    sourceSeed = cms.untracked.uint32(13579097),
    moduleSeeds = cms.PSet(
        g4SimHits = cms.untracked.uint32(9876),
    )
)

// Modified:
RandomNumberGeneratorService = cms.Service("RandomNumberGeneratorService",
    g4SimHits = cms.PSet(initialSeed = cms.untracked.uint32(9876))
)
```

Where necessary, set process label. e.g.:

```cpp
// Original:
+process.RPClustProd.DigiLabel = cms.InputTag("RPSiDetDigitizer")

// Modified:
+process.RPClustProd.DigiLabel = cms.InputTag("RPSiDetDigitizer")
```

Some labels for reconstructing Raw Data:

```cpp
// Original:
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")

// Modified:
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 slc6_amd64_gcc472/tools/selected/

- Add to repository ice libraries if it is necessary.
  - to directory CMSSW_6_2_0_with_tudas/external/slc6_amd64_gcc472/lib