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# PAT Release Notes (compatible with CMSSW\_6\_2\_X)

Legend:

- **NEW**: This recipe has been added recently.
- **UPDATED**: This recipe has been updated.
- **CLOSED**: This recipe is obsolete, e.g. due to removal of a topic branch after its integration. Please move to a more recent recipe.
- *(GREEN RELEASE NUMBER)* : CMSSW release, when a feature entered officially.

This is for *CMSSW\_6\_2\_X* development.

⚠ If you are doing developments intended for *CMSSW\_7\_0\_X*, please post in SWGuidePATReleaseNotes70X.

⚠ If you are doing developments intended for *CMSSW\_5\_3\_X*, please post in SWGuidePATReleaseNotes52X.

⚠ **Note:** the releases wrt to which the tags on the recipes are given are stable references. They correspond to more or less up to date releases. To be really sure whether some of the indicated tags have already been integrated in the patch release or IB that you are using please verify with `addpkg -q` and the given package within your release area.

## Fix jet tools **UPDATED**

- Some minor fixes in the PAT jet tools for *additional* CaloJet collections

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_4
cd CMSSW_6_2_4/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
scram b -j 9
```

### To add MVA electron ID

```
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-addMVAElectronId
scram b -j 9
```

## Muon isolation from boosted tau decays

- Added isolation of muons from boosted tau decays (forward port from 53X)

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_3_patch1
cd CMSSW_6_2_3_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-fixRelValInput
git cms-merge-topic 1274
scram b -j 9
```

### To add MVA electron ID

```
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-addMVAElectronId
scram b -j 9
```

## Fix RelVal input

- Back port from 70X after removal of some input datasets at CERN.
- Migrate one forgotten PAT integration test to unscheduled mode.
- Fix ambiguity of jet collection names in PAT jets tools (rudely).

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_3_patch1
cd CMSSW_6_2_3_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-fixRelValInput
scram b -j 9
```

### To add MVA electron ID

```
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-addMVAElectronId
scram b -j 9
```

## MVA electron ID

- Forward port from 53X.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_3_patch1
cd CMSSW_6_2_3_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:6_2_3_patch1-addMVAElectronId
scram b -j 9
```

## MET uncertainties fix

- Fix FileInPath usage in **SmearJetProducerT**.
- Add integration test for MET uncertainties.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_1
cd CMSSW_6_2_1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:6_2_1-metUncertainties
scram b -j 9
```

- Additional topic branches integrated.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_1
cd CMSSW_6_2_1/src/
cmsenv
```

```
git cms-addpkg PhysicsTools/PatAlgos
scram b -j 9
```

- Almost identical to V08-11-12;
  - ◆ Just updated RelVal input.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_6_2_0
cd CMSSW_6_2_0/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic -u vadler:62X-updateRelValInput
scram b -j 9
```

### To add the PAT tutorial code

```
git cms-merge-topic -u vadler:62X-updatePatTutorial
scram b -j 9
```

### To add the latest b-tags ( ⚠ differs from standard RECO)

```
git cms-merge-topic -u ferencek:62X-additionalBTaggers
scram b -j 9
```

## V08-11-12

- Update b-tagging available taggers and defaults to POG recommendations (from Dinko).

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0
cd CMSSW_6_2_0/src/
cmsenv
addpkg PhysicsTools/PatAlgos
scram b -j 9
```

### To add the latest b-tags ( ⚠ differs from standard RECO)

```
addpkg RecoBTag/ImpactParameter      V01-04-13
addpkg RecoBTag/SecondaryVertex      V01-11-02
addpkg RecoBTag/SoftLepton           V05-09-11
addpkg RecoBTag/JetTagComputer       V02-03-02
addpkg RecoBTag/Configuration        V00-07-05
scram b -j 9
```

## V08-11-10

- (Temporarily) fix PFBRECO problems with top projections on FwdPtrs for leptons (by Sal).
  - ⚠ Lepton isolations are **not** re-computed in PFBRECO, but simply taken from the input EDM file (standard RECO without top projections).

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre7
cd CMSSW_6_2_0_pre7/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-02-02
```

```
addpkg PhysicsTools/PatAlgos      V08-11-10
addpkg PhysicsTools/PatUtils
addpkg CommonTools/ParticleFlow  V01-02-00
scram b -j 9
```

## V08-11-09

- PFBRECO runs in unscheduled PAT (by Jan).
- Improve performance of PAT trigger data formats (from Matti).

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre7
cd CMSSW_6_2_0_pre7/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-02-02
addpkg PhysicsTools/PatAlgos
addpkg PhysicsTools/PatUtils
scram b -j 9
```

## V08-11-08

- Update input RelVals for integration tests to 62X.
- Reintroduce coreTools for `runOnData()`.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre6_patch1
cd CMSSW_6_2_0_pre6_patch1/src/
cmsenv
addpkg PhysicsTools/PatAlgos V08-11-08
scram b -j 9
```

## V08-11-07

- Python trigger tools are ready for *unscheduled mode* now.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre5
cd CMSSW_6_2_0_pre5/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-02
addpkg PhysicsTools/PatAlgos V08-11-07
addpkg PhysicsTools/PatUtils V03-09-30
addpkg DataFormats/CaloRecHit V02-05-12
addpkg RecoTauTag/RecoTau V01-06-01
addpkg RecoTauTag/Configuration V02-00-00
addpkg CommonTools/ParticleFlow V01-01-19
scram b -j 9
```

## V08-11-06

- Adding latest tau discriminators

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre5
```

```
cd CMSSW_6_2_0_pre5/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-02
addpkg PhysicsTools/PatAlgos V08-11-06
addpkg PhysicsTools/PatUtils V03-09-30
addpkg DataFormats/CaloRecHit V02-05-12
addpkg RecoTauTag/RecoTau V01-06-01
addpkg RecoTauTag/Configuration V02-00-00
addpkg CommonTools/ParticleFlow V01-01-19
scram b -j 9
```

## V08-11-04

- use references to retrieve the basic cluters (Florian)
- embed cells in 5x5 around basic clusters (Florian)

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre5
cd CMSSW_6_2_0_pre5/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-02
addpkg PhysicsTools/PatAlgos V08-11-04
addpkg PhysicsTools/PatUtils V03-09-30
addpkg DataFormats/CaloRecHit V02-05-11
scram b -j 9
```

## V08-11-03

- backport to 62X: embed pflow super clusters, basic clusters, preshower clusters, pflow basic clusters and pflow preshower clusters
- Split class definitions in *DataFormats/PatCandidates* to reduce virtual memory consumption during compilation, especially with ARM processors.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre5
cd CMSSW_6_2_0_pre5/src/
cmsenv
addpkg DataFormats/PatCandidates V06-06-01
addpkg PhysicsTools/PatAlgos V08-11-03
addpkg PhysicsTools/PatUtils V03-09-30
addpkg DataFormats//CaloRecHit V02-05-11
scram b -j 9
```

## V08-11-02

- Re-enable integration test on data RelVals.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_0_pre4
cd CMSSW_6_2_0_pre4/src/
cmsenv
addpkg PhysicsTools/PatAlgos
scram b -j 9
```

## V08-11-01

- Remove dead wood.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_X_2013-03-07-0200
cd CMSSW_6_2_X_2013-03-07-0200/src/
cmsenv
addpkg PhysicsTools/PatAlgos      V08-11-01
addpkg PhysicsTools/PatUtils      V03-09-29
addpkg RecoMET/METProducers       V03-03-23
scram b -j 9
```

## V08-11-00

- New framework API.
- Identical to V08-10-36, which is already in *CMSSW\_6\_2\_X*.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_6_2_X_2013-03-06-1400
cd CMSSW_6_2_X_2013-03-06-1400/src/
cmsenv
addpkg PhysicsTools/PatAlgos      V08-11-00
addpkg PhysicsTools/PatUtils      V03-09-29
addpkg RecoMET/METProducers       V03-03-23
scram b -j 9
```

-- VolkerAdler - 06-Mar-2013

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