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PAT Release Notes (compatible with CMSSW_3_8_X)

Please follow the tag conventions here:

Package	Tag
DataFormats/PatCandidates	V06-02- <i>zz</i>
CMS.PhysicsTools/PatAlgos	V08-00- <i>zz</i>
CMS.PhysicsTools/PatUtils	V03-09- <i>zz</i>
CMS.PhysicsTools/PatExamples	V00-04- <i>zz</i>
CMS.PhysicsTools/Utilities	V07-02- <i>zz</i>

Please do PatCandidates developments on branch B3_8_X. This has now diverged from the head which is intended for 39x.

Developments for SelectorUtils in 38 have moved now to branch B3_8_X. Revision here: SimpleCutBasedElectronIDSelectionFunctor is using the latest Egamma recommendation for the Delta eta cut in the EE.

V08-00-57

- PATCH for adding L1Offset corrections as recently derived by JetMET

Show ▾ Hide ▾

```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_7_patch2
cd CMSSW_3_8_7_patch2/src
cmsenv
addpkg CondFormats/JetMETObjects          V03-01-21
addpkg JetMETCorrections/Algorithms       V02-02-03
addpkg JetMETCorrections/Configuration   V03-02-07
addpkg JetMETCorrections/Modules         V05-00-17
addpkg PhysicsTools/PatAlgos             V08-00-57
scram b -j 9
```

V08-00-56

- equivalent to V08-00-57 but the bypass of the JEC in the GT was not yet in place. This has been fixed with the following tag.

V08-00-55

- Removed *L2L3Residual* from default configuration to be consistent for the use with MC.
- Added *coreTool runOnData* consistently to remove MC Matching and to add *L2L3Residual* correction to run on data.
- Removed embedding of *tagInfos* from default configuration.

V08-00-54

- PAT trigger information:
 - ◆ automated the `switchOnTriggerMatchEmbedding` Python tool completely, no module imports anymore.
- Fix to allow unnamed *PSets* in *VPSets* in GuiBrowser

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_7
cd CMSSW_3_8_7/src
cmsenv
addpkg DataFormats/PatCandidates      V06-01-09
addpkg PhysicsTools/PatAlgos          V08-00-54
addpkg PhysicsTools/PatExamples       V00-04-27
addpkg PhysicsTools/PatUtils          V03-09-16
addpkg FWCore/PythonUtilities         V01-01-01
addpkg PhysicsTools/UtilAlgos         V08-02-05
addpkg PhysicsTools/FWLite            V02-03-09
addpkg FWCore/GuiBrowser              V00-00-42
scram b -j 9
```

V08-00-53

(on top of CMSSW_3_8_7)

- PAT trigger information (backport from 39X):
 - ◆ added more standard collections to be available in the `switchOnTriggerMatchEmbedding` Python tool, incl. all jet collections;
 - ◆ changed automatic HLT process name determination in order to use rather the last process, where the `trigger::TriggerEvent` has been produced, than the latest `trigger::TriggerEvent` present in the event; this is checked every run now, not every event anymore;
 - ◆ reviewed connection of the automatic HLT process determination to the used `l1extra` collection tags;
 - ◆ a bit of code clean-up and synchronisation;
 - ◆ added a bit more Doxygen documentantation.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_7
cd CMSSW_3_8_7/src
cmsenv
addpkg DataFormats/PatCandidates      V06-01-08
addpkg PhysicsTools/PatAlgos          V08-00-53
addpkg PhysicsTools/PatExamples       V00-04-26
addpkg PhysicsTools/PatUtils          V03-09-16
scram b -j 9
```

V08-00-51

(for CMSSW_3_8_7, incl. TQAF tags)

- Switch to new CMS.GlobalTag for PAT and TQAF.
- Commented test cfi for new JEC as these are now part of the CMS.GlobalTag.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg AnalysisDataFormats/TopObjects      V06-07-06
addpkg CommonTools/Utils                   V00-02-16
addpkg CondFormats/JetMETObjects           V03-01-14
addpkg DataFormats/PatCandidates           V06-01-08
addpkg DataFormats/RecoCandidate           V00-16-14-02
addpkg FWCore/GuiBrowsers                  V00-00-40
addpkg PhysicsTools/FWLite                 V02-03-03
addpkg PhysicsTools/Utilities              V08-01-02
addpkg JetMETCorrections/Algorithms        V02-01-02
```

```

addpkg JetMETCorrections/Modules V05-00-14
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PFCandProducer V04-07-00
addpkg PhysicsTools/PatAlgos V08-00-51
addpkg PhysicsTools/PatExamples V00-04-25
addpkg PhysicsTools/PythonAnalysis V00-05-01
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01
addpkg TopQuarkAnalysis/Examples V06-07-07
addpkg TopQuarkAnalysis/TopEventProducers V06-07-09
addpkg TopQuarkAnalysis/TopEventSelection V06-07-08
addpkg TopQuarkAnalysis/TopJetCombination V06-07-07
addpkg TopQuarkAnalysis/TopKinFitter V06-07-06
addpkg TopQuarkAnalysis/TopObjectResolutions V06-07-05
addpkg TopQuarkAnalysis/TopSkimming V06-07-05
addpkg TopQuarkAnalysis/TopTools V06-07-07
scram b -j 9

```

V08-00-49

(incl. TQAF tags)

- Tags to be requested for the 387 analysis release
- PAT working with newest CMS.GlobalTag for CMSSW_3_8_6 (including TQAF tags).
- Changed the top selection unit test to temporarily ignore L5 and L7 corrections which are not yet reliable.

Show Hide

```

ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg AnalysisDataFormats/TopObjects V06-07-06
addpkg CommonTools/Utils V00-02-16
addpkg CondFormats/JetMETObjects V03-01-14
addpkg DataFormats/PatCandidates V06-01-07
addpkg DataFormats/RecoCandidate V00-16-14-02
addpkg FWCore/GuiBrowser V00-00-39
addpkg PhysicsTools/FWLite V02-03-03
addpkg PhysicsTools/Utilities V08-01-02
addpkg JetMETCorrections/Algorithms V02-01-02
addpkg JetMETCorrections/Modules V05-00-14
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PFCandProducer V04-07-00
addpkg PhysicsTools/PatAlgos V08-00-49
addpkg PhysicsTools/PatExamples V00-04-25
addpkg PhysicsTools/PythonAnalysis V00-05-01
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01
addpkg TopQuarkAnalysis/Examples V06-07-06
addpkg TopQuarkAnalysis/TopEventProducers V06-07-08
addpkg TopQuarkAnalysis/TopEventSelection V06-07-07
addpkg TopQuarkAnalysis/TopJetCombination V06-07-06
addpkg TopQuarkAnalysis/TopKinFitter V06-07-05
addpkg TopQuarkAnalysis/TopObjectResolutions V06-07-05
addpkg TopQuarkAnalysis/TopSkimming V06-07-05
addpkg TopQuarkAnalysis/TopTools V06-07-06
scram b -j 9

```

V08-00-47

- Minor fix in *removeMCCleaning*. Now also works if there is not *out* module.

V08-00-46

- Default in JEC is *L2Relative*, *L3Absolute*. *L2L3Relative* have to be added by the user when running on data.

V08-00-45

(incl. TQAF tags)

- PAT working with newest CMS.GlobalTag for CMSSW_3_8_6 (including TQAF tags).
- Changed the top selection unit test to temporarily ignore L5 and L7 corrections which are not yet reliable.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-06
addpkg PhysicsTools/PatAlgos V08-00-45
addpkg PhysicsTools/PatExamples V00-04-25
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01

addpkg DataFormats/RecoCandidate V00-16-14-02
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PythonAnalysis V00-05-01
addpkg FWCore/GuiBrowser V00-00-39
addpkg CommonTools/Utils V00-03-02
addpkg PhysicsTools/FWLite V02-03-03
addpkg PhysicsTools/PFCandProducer V04-06-03
addpkg PhysicsTools/Utilities V08-01-02

addpkg AnalysisDataFormats/TopObjects V06-07-06
addpkg TopQuarkAnalysis/TopEventProducers V06-07-08
addpkg TopQuarkAnalysis/TopEventSelection V06-07-07
addpkg TopQuarkAnalysis/TopJetCombination V06-07-06
addpkg TopQuarkAnalysis/TopKinFitter V06-07-05
addpkg TopQuarkAnalysis/TopObjectResolutions V06-07-05
addpkg TopQuarkAnalysis/TopSkimming V06-07-05
addpkg TopQuarkAnalysis/TopTools V06-07-06
addpkg TopQuarkAnalysis/Examples V06-07-06
scram b -j 9
```

V08-00-44

(incl. TQAF tags)

- PAT working with newest CMS.GlobalTag for CMSSW_3_8_6 (including TQAF tags).

Show ▾ Hide ▾

```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-06
addpkg PhysicsTools/PatAlgos V08-00-44
addpkg PhysicsTools/PatExamples V00-04-23
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01

addpkg AnalysisDataFormats/TopObjects V06-07-06
addpkg TopQuarkAnalysis/TopEventProducers V06-07-08
addpkg TopQuarkAnalysis/TopEventSelection V06-07-07
```

```
addpkg TopQuarkAnalysis/TopJetCombination V06-07-06
addpkg TopQuarkAnalysis/TopKinFitter V06-07-05
addpkg TopQuarkAnalysis/TopObjectResolutions V06-07-05
addpkg TopQuarkAnalysis/TopSkimming V06-07-05
addpkg TopQuarkAnalysis/TopTools V06-07-06
addpkg TopQuarkAnalysis/Examples V06-07-06
scram b -j 9
```

V08-00-37

- PAT trigger information
 - ◆ Fixing compiler warnings.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-06
addpkg PhysicsTools/PatAlgos V08-00-37
addpkg PhysicsTools/PatExamples V00-04-23
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01
scram b -j 9
```

V08-00-32

- PAT trigger information
 - ◆ Added missing consideration of automatic process name determination to configurable `l1extraParticles` collection tags.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-05
addpkg PhysicsTools/PatAlgos V08-00-32
addpkg PhysicsTools/PatExamples V00-04-23
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01
scram b -j 9
```

V08-00-31

(incl. TQAF tags)

- Adaptations to the changes for DB access to retrieve JEC by CMS.JetMET.
- Complete rework of `pat::JetCorrFactors`.
- Adaptations in `pat::Jet` (this came with a few minor changes of member function names connected with JEC; these changes will be explained in detail in the SWGuidePATRecipes by the end of this week).
- Introduction of the BasicAnalyzer and BasicFilter implementation (in UtilAlgos, needed minor adaptations in SelectorUtils).
- Added an example in PatExamples how to use the BasicAnalyzer concept in an analysis.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_6
cd CMSSW_3_8_6/src
cmsenv
```

V08-00-44(incl. TQAF tags)

```

addpkg AnalysisDataFormats/TopObjects V06-07-06
addpkg DataFormats/PatCandidates V06-01-05
addpkg PhysicsTools/PatAlgos V08-00-31
addpkg PhysicsTools/PatExamples V00-04-23
addpkg PhysicsTools/SelectorUtils V00-02-27
addpkg PhysicsTools/UtilAlgos V08-02-01
addpkg TopQuarkAnalysis/Examples V06-07-06
addpkg TopQuarkAnalysis/TopEventProducers V06-07-08
addpkg TopQuarkAnalysis/TopEventSelection V06-07-07
addpkg TopQuarkAnalysis/TopJetCombination V06-07-06
addpkg TopQuarkAnalysis/TopKinFitter V06-07-05
addpkg TopQuarkAnalysis/TopObjectResolutions V06-07-05
addpkg TopQuarkAnalysis/TopSkimming V06-07-05
addpkg TopQuarkAnalysis/TopTools V06-07-06
scram b -j 9

```

V08-00-29_autoProcessName

- PAT trigger information (back-port from CMSSW_3_9_X)
 - ◆ Option to automatically pick most recent HLT process (set process name to "*")

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```

ssh lxplus.cern.ch
cmsrel CMSSW_3_8_X_2010-10-31-0200
cd CMSSW_3_8_X_2010-10-31-0200/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-04
addpkg PhysicsTools/PatAlgos V08-00-29_autoProcessName
scram b -j 9

```

V08-00-29

- Get rid of redundant empty collections for *Calo/JPT/PFJets* (extended to *tagInfos*) and now complete.
- Calculate xxxEnergyFraction methods based on raw instead of L2L3 (port from cvs Head).
- Bug fix in PFJetIDSelectionFunctor to initialize to false instead of leaving this to user.

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```

ssh lxplus.cern.ch
cmsrel CMSSW_3_8_X_2010-10-13-0200
cd CMSSW_3_8_X_2010-10-13-0200/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-04
addpkg PhysicsTools/PatAlgos V08-00-29
addpkg PhysicsTools/PatUtils V03-09-14
addpkg PhysicsTools/SelectorUtils V00-02-24
scram b -j 9

```

V08-00-28

- Get rid of redundant empty collections for *Calo/JPT/PFJets*.

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```

ssh lxplus.cern.ch
cmsrel CMSSW_3_8_X_2010-10-13-0200
cd CMSSW_3_8_X_2010-10-13-0200/src
cmsenv
addpkg PhysicsTools/PatAlgos V08-00-28
addpkg PhysicsTools/PatUtils V03-09-14
scram b -j 9

```

V08-00-27

- PAT trigger information:
 - ◆ backport of newly designed Python trigger tools from 39X.
 - ⚠ This can possibly be incompatible to existing configuration files using trigger matching. Recipes for the transition are soon to be added to the SWGuidePATTrigger.
- Backport of some bug fixes from 39x relating to running two PF2PAT sequences in one job from M. Bluj.
- Adding a helper check method for tag infos for pat::Jet

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_4_patch2
cd CMSSW_3_8_4_patch2/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-03
addpkg PhysicsTools/PatAlgos V08-00-27
addpkg PhysicsTools/PatExamples V00-04-10
addpkg PhysicsTools/PatUtils V03-09-14
addpkg PhysicsTools/SelectorUtils V00-02-17
checkdeps -a
scram b -j 9
```

V08-00-26_newTriggerTools

- PAT trigger information:
 - ◆ backport of newly designed Python trigger tools from 39X.
 - ⚠ This can possibly be incompatible to existing configuration files using trigger matching. Recipes for the transition are soon to be added to the SWGuidePATTrigger.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_4_patch2
cd CMSSW_3_8_4_patch2/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-02
addpkg PhysicsTools/PatAlgos V08-00-26_newTriggerTools
addpkg PhysicsTools/PatExamples V00-04-10
addpkg PhysicsTools/PatUtils V03-09-14
addpkg PhysicsTools/SelectorUtils V00-02-17
checkdeps -a
scram b -j 9
```

V08-00-26

- simplification of isolation tools
- Doxygen fixes in PatCandidates
- Updates to deal with JPT jets.
- Small update in SelectorUtils: SimpleCutBasedElectronIDSelectorFunctor HoE cut updated
- Final updates of PhysicsTools/PatExamples for the Sep. 2010 tutorial
- Bug fix in DataFormats/PatCandidates/src/TriggerEvent.cc

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_4_patch2
cd CMSSW_3_8_4_patch2/src
cmsenv
addpkg DataFormats/PatCandidates V06-01-02
addpkg PhysicsTools/PatExamples V00-04-10
```



```
addpkg PhysicsTools/SelectorUtils V00-02-17
checkdeps -a
scram b -j 8
```

V08-00-25

- Bug fix in electron and muon selectors when constructing from list, and not from python config.
- Create dictionaries for strbitset and SelectorUtils to use them in (e.g.) python
- Updated for some feature demonstrations in the Workbook
- Resurrected the accidentally deleted examples for running JPT and Track Jets corrections from the conditions database.
- Bug fix in calo jet ID when using pat jets for **forward jet id, or tight jet id**, if passed corrected jets.
- Bug fix in PF Jet ID if passed corrected jets.
- Updating example selections for some speed optimisations.
- Remove accidental cout statement.
- Added JPT jet ID for PAT. Luckily this is backwards compatible.
- Added type I correction for PF MET

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_1
cd CMSSW_3_8_1/src
cmsenv
addpkg PhysicsTools/SelectorUtils V00-02-13
addpkg PhysicsTools/PatExamples V00-04-06
addpkg JetMETCorrections/Configuration V03-00-05
addpkg JetMETCorrections/Type1MET V04-03-09
addpkg DataFormats/PatCandidates V06-01-00
addpkg PhysicsTools/PatAlgos V08-00-25
checkdeps -a
scram b -j 8
```

V08-00-24

- Bug fix in electron and muon selectors when constructing from list, and not from python config.
- Create dictionaries for strbitset and SelectorUtils to use them in (e.g.) python
- Bug fix in pat Jet producer and Selectors, Calo towers need to be in an **unsorted** collection.
- Updated for some feature demonstrations in the Workbook

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_1
cd CMSSW_3_8_1/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-05
addpkg PhysicsTools/SelectorUtils V00-02-06
addpkg PhysicsTools/PatAlgos V08-00-24
addpkg PhysicsTools/PatExamples V00-04-06
checkdeps -a
scram b -j 8
```

V08-00-21

- These are what are in 381.
- Reverting PF2PAT change, found a more elegant way without modifying PAT

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_0_patch2
```

V08-00-26

```
cd CMSSW_3_8_0_patch2/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-21
addpkg PhysicsTools/SelectorUtils V00-02-02
addpkg PhysicsTools/PatExamples V00-04-03
addpkg PhysicsTools/PFCandProducer V04-06-01-01
addpkg PhysicsTools/UtilAlgos V08-01-02
checkdeps -a
scram b -j 8
```

V08-00-19

- PAT trigger information:
 - ◆ Reducing verbosity of `pat::PATTriggerEventProducer`, when running over older (*CMSSW* version < *CMSSW_3_6_X*) input files:
 - ◇ Global Trigger and data taking conditions information have to be switched on explicitly now;
 - ◆ Restore usage of user friendly access methods to trigger matches in *CMS.PhysicsTools/PatExamples*.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_8_0_patch2
cd CMSSW_3_8_0_patch2/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-19
addpkg PhysicsTools/SelectorUtils V00-02-02
addpkg PhysicsTools/PatExamples V00-04-03
addpkg PhysicsTools/PFCandProducer V04-06-01-01
addpkg PhysicsTools/UtilAlgos V08-01-02
checkdeps -a
scram b -j 8
```

V08-00-18

- Add embedded high level data to PF lepton case.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0
cd CMSSW_3_8_0/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-18
addpkg PhysicsTools/SelectorUtils V00-02-02
addpkg PhysicsTools/PatExamples V00-04-02
addpkg PhysicsTools/PFCandProducer V04-06-01-01
addpkg PhysicsTools/UtilAlgos V08-01-02
checkdeps -a
```

V08-00-17

- Add option in `PATJetProducer` to filter event
- Bug fix in selector's "set" method.
- Added `EDAnalyzer` and `EDFilter` that will take standalone (i.e. `FWLite`) classes as a template parameter. This facilitates transferring high-level control from `FWLite` to the full framework.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0
cd CMSSW_3_8_0/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-17
addpkg PhysicsTools/SelectorUtils V00-02-01
addpkg PhysicsTools/PatExamples V00-04-01
addpkg PhysicsTools/PFCandProducer V04-06-01-01
addpkg PhysicsTools/UtilAlgos V08-01-02
checkdeps -a
```

V08-00-16

- Added two more complicated user tests. Requires a PFCandProducer tag

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0_pre7
cd CMSSW_3_8_0_pre7/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-16
addpkg PhysicsTools/SelectorUtils V00-02-00
addpkg PhysicsTools/PatExamples V00-04-00
addpkg PhysicsTools/PFCandProducer V04-06-01-01
checkdeps -a
```

V08-00-15

- Reverted to old behavior of jet selector, don't select events, only objects.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0_pre7
cd CMSSW_3_8_0_pre7/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos V08-00-15
addpkg PhysicsTools/SelectorUtils V00-02-00
addpkg PhysicsTools/PatExamples V00-04-00
checkdeps -a
```

V08-00-14

- Bug fix in PF leptons... was not adding user data
- Added helper index class for strbitset. Speeds up read access 4x.
- Added some "user level" tutorial type examples in PatExamples

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0_pre7
cd CMSSW_3_8_0_pre7/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
```

V08-00-17

```
addpkg PhysicsTools/PatAlgos      V08-00-14
addpkg PhysicsTools/SelectorUtils V00-02-00
addpkg PhysicsTools/PatExamples   V00-04-00
checkdeps -a
```

V08-00-13

- Critical bug fix for pat jet selection. Case of skims off of skims was not working "in situ", but only when run in two separate jobs.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0_pre7
cd CMSSW_3_8_0_pre7/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos      V08-00-13
addpkg PhysicsTools/SelectorUtils V00-01-17
checkdeps -a
```

V08-00-10

- Change of CMS.GlobalTag to pick up correct JEC.

V08-00-09

- PAT trigger information:
 - ◆ Adding Global Trigger information to the `pat::TriggerEvent` as provided by `edm::ConditionsIn{Run, Lumi, Event}Block`.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0
cd CMSSW_3_8_0/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-04
addpkg PhysicsTools/PatAlgos      V08-00-09
addpkg PhysicsTools/SelectorUtils V00-01-17
checkdeps -a
```

V08-00-08

- PAT trigger information:
 - ◆ using enum `L1GtUtils::TriggerCategory`;
 - ◆ making filling of L1 algo collection optional in `PATTriggerProducer` (default: **False**), however, empty collection is still put to event to minimize impact on `PATTriggerEventProducer`;
 - ◆ explicitly pointing to `L1GtUtils`, where its error codes are provided in error messages.

Show ▾ Hide ▾

```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_0_pre7
cd CMSSW_3_8_0_pre7/src
cmsenv
addpkg DataFormats/PatCandidates V06-00-03
```

V08-00-14

```
addpkg PhysicsTools/PatAlgos          V08-00-08
addpkg PhysicsTools/SelectorUtils    V00-01-17
checkdeps -a
```

V08-00-07

- These are that tags that correspond to CMSSW_3_8_0.
- Updated to jet reco migration.

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_X_2010-06-26-0200
cd CMSSW_3_8_X_2010-06-26-0200/src
cmsenv
addpkg DataFormats/PatCandidates          V06-00-03
addpkg PhysicsTools/PatAlgos              V08-00-07-00
addpkg PhysicsTools/SelectorUtils        V00-01-16
checkdeps -a
```

V08-00-06

PAT trigger information:

- Added reference back to original trigger object to pat::TriggerObject
 - ◆ uses reco::CandidateBaseRef (edm::RefToBase< reco::Candidate >);
 - ◆ so far, only usable for 'l1extra' L1 objects;
 - ◆ provides access to the information in the objects beyond reco::LeafCandidate;
 - ◆ provides also eased access to the GT objects (GCT, GMT);
 - ◆ modifications to pat::TriggerObject backwards compatible;
 - ◆ addition to PAT trigger objects (optional) configurable:
 - ◇ default: false;
 - ◇ needed in the event content to work properly:
 - *_l1extraParticles_*_[processName] and
 - *_gctDigis_*_[processName].

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_X_2010-06-26-0200
cd CMSSW_3_8_X_2010-06-26-0200/src
cmsenv
addpkg DataFormats/PatCandidates          V06-00-03
addpkg PhysicsTools/PatAlgos              V08-00-06
addpkg PhysicsTools/SelectorUtils        V00-01-16
checkdeps -a
```

V08-00-05

- Selectors for CompositeCandidate and Standalone PAT trigger
- Bug fix in PF Jet ID when using compound jets
- Added Simple electron ID from Nikos.
- Updated to use the "common" selection for the top and EWK groups for the wplusjets selections

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```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_X_2010-06-26-0200
```

V08-00-08

```
cd CMSSW_3_8_X_2010-06-26-0200/src
cmsenv
addpkg DataFormats/PatCandidates          V06-00-02
addpkg PhysicsTools/PatAlgos              V08-00-05
addpkg PhysicsTools/SelectorUtils        V00-01-16
checkdeps -a
```

V08-00-03

- Please ignore V08-00-02, it has a CVS mistake
- Added a custom selector that will appropriately handle the reswizzled pat::Jet event content

Show ▢ Hide ▾

```
ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_X_2010-06-14-1300
cd CMSSW_3_8_X_2010-06-14-1300/src
cmsenv
addpkg CommonTools/Utils                  V00-02-15
addpkg DataFormats/BTauReco              V00-16-10
addpkg DataFormats/CMS.CaloTowers        V02-05-07
addpkg DataFormats/ParticleFlowReco
addpkg DataFormats/PatCandidates         V06-00-02
addpkg PhysicsTools/PatAlgos             V08-00-03
addpkg PhysicsTools/PatExamples          V00-03-12
checkdeps -a
```

V08-00-01

PAT trigger information:

- Warning about empty pre-scale table restricted to real data.
- Avoid multiple copies of the same trigger object, when embedding matched trigger objects into PAT objects (thanx, Gio).
- Option to restrict matched trigger objects to objects used in the last filter of a succeeding path only (thanx again, Gio):
 - ◆ new boolean vector data member in the **TriggerObjectsStandAlone**, whose element is true if the trigger object was used in the last filter of the corresponding path and the latter succeeded
getters ignore this, when used on an old **TriggerObjectsStandAlone** and behave like the boolean is true for all paths;
all related methods have an optional boolean parameter (*default: true*), which asks for this property
⚠ OLD CODE CHANGES BEHAVIOUR!
same optional parameters in related access methods of the **PATObject** (*default: false*)
⚠ OLD CODE BEHAVES STILL THE SAME!
 - ◆ new boolean configuration parameter for trigger matching to select trigger objects for this
default: true
⚠ OLD CODE CHANGES BEHAVIOUR!
- New **hasCollection** method of the **TriggerObject**:
 - ◆ usable in the string-based selectors;
 - ◆ works with `std::string` or `edm::InputTag`;
 - ◆ works also with label only, even if the collection is stored incl. the process name (beware of instances!);
collection can be specified "label-only" in the trigger match configuration now.

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```
ssh lxplus5.cern.ch
```

V08-00-05

```

cmsrel CMSSW_3_8_X_2010-06-14-1300
cd CMSSW_3_8_X_2010-06-14-1300/src
cmsenv
addpkg CommonTools/Utils V00-02-15
addpkg DataFormats/BTauReco V00-16-10
addpkg DataFormats/CMS.CaloTowers V02-05-07
addpkg DataFormats/ParticleFlowReco
addpkg DataFormats/PatCandidates V06-00-01
addpkg PhysicsTools/PatAlgos V08-00-01
addpkg PhysicsTools/PatExamples V00-03-12
checkdeps -a

```

V08-00-00

- First implementation of refactorized pat::Jets

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```

ssh lxplus5.cern.ch
cmsrel CMSSW_3_8_X_2010-06-14-1300
cd CMSSW_3_8_X_2010-06-14-1300/src
cmsenv
addpkg CommonTools/Utils V00-02-15
addpkg DataFormats/BTauReco V00-16-10
addpkg DataFormats/CMS.CaloTowers V02-05-07
addpkg DataFormats/ParticleFlowReco
addpkg DataFormats/PatCandidates V06-00-00
addpkg PhysicsTools/PatAlgos V08-00-00
addpkg PhysicsTools/PatExamples V00-03-12
checkdeps -a

```

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