



Published on *ROOT* (<http://root.cern.ch/drupal>)

[Home](#) > [Printer-friendly PDF](#) > [Printer-friendly PDF](#)

ROOT Version v5-30-00 Patch Release Notes

[download](#) ^[1] [patches](#) ^[2] [v5-30-00](#) ^[3]

A new production version ROOT v5-30-06 has been released January 10, 2012.

The AFS version of v5-30-06 for many different platforms and compilers can be found at:

[/afs.cern.ch/sw/lcg/app/releases/ROOT/5.30.06/](http://afs.cern.ch/sw/lcg/app/releases/ROOT/5.30.06/)

The complete source tree for all systems (39 MB) is available here:

[ftp://root.cern.ch/root/root_v5.30.06.source.tar.gz](http://root.cern.ch/root/root_v5.30.06.source.tar.gz) ^[4]

Alternatively get the source from [Git](#) ^[5] using:

```
git clone http://root.cern.ch/git/root.git [6] root-v5-30
cd root-v5-30
git checkout -b v5-30-06 v5-30-06
```

After obtaining the source read the file [README/INSTALL](#) ^[7] (in short just do: `cd root; ./configure; make`).

To get the source of the head of the v5-30-00-patches branch do:

```
git clone -b v5-30-00-patches http://root.cern.ch/git/root.git [6] root-v5-30
```

Changes in the head of the v5-30-00-patches branch

- Cint
 - Import patch [#42805](#) ^[8] fixing the problem [#83909](#) ^[9] which leading to failure of the auto-dictionary generator when dealing with class template inside a namespace.
- Core
 - Import patch [#42757](#) ^[10] fixing memory leak due to multiple allocations of `gLibraryVersion`.
 - Add missing implementation for `TGenericClassInfo::GetDirectoryAutoAdd`.
- IO
 - Repaired chirp plugin.
 - Prevent negative consequences of call `SetAutoFlush` with a default value (44279, bug [#94669](#)). ^[11]
 - In `TTreeSQL` prevent a spurious duplicate column error (Fixes Savannah issues [#98126](#) ^[12]).
- TTree
 - Make sure that in the tertiary operator implementation we always load the branch that are needed (even in the case `cond ? y : -y` where `cond` is false). This fixes [#90826](#) ^[13].
- Proof
 - Reorder `pq2` libraries for Ubuntu 11.10 ([r42660](#) ^[14]).
 - Import patch [#42578](#) ^[15] fixing in `getProof.C` some issues mostly related to PROOF-Lite.
 - Import class to analyse the performance tree (see [description](#) ^[16])
 - Adapt patch [#42671](#) ^[17] fixing a problem with `TProof::Load` reported in the PROOF forum, caused by the fact that the additional files were not copied in the master sandbox but left in the cache.
 - Import patch [#41745](#) ^[18] fixing `TFileCollection::Merge`.
 - Import patch [#42904](#) ^[19] in `TProofOutputFile` changing the default mode for merging histograms in `TFileMerger`, to reduce the memory footprint.
 - Import patch [#42921](#) ^[20] to add also to `TXUnixSocket` the possibility to disable reconnections via the variable `TXSocket.Reconnect` (0 disable reconnections; default is 1) .
 - Import patch [#43245](#) ^[21] fixing an issue with forcing local copies of files before merging (bit not always honored).
 - Import patch [#44048](#) ^[22] removing the automatic creation of `TDrawFeedback` by `TProofChain`.
- Graf3D

- Import rev 42084 from trunk: Fix crash on exit when stamped element map is not empty.
- PyROOT
 - Patch for [#91505](#) [23]: allow null-characters in strings passed through the binding.

Changes in version v5-30-06 (January 10, 2012)

- TTree
 - Resolve [#89645](#) [24] which could lead to segmentation fault when writing a sparse branch (in a large TTree) with a very long branch name.
- Proof
 - Adapt patches [#42142](#) [25] and [#42451](#) [26] to stressProof adding a return code consistent with standard test facilities and the option '-noprogess' to switch off the progress information which may create problems in wrapper applications intercepting the output (e.g. ctest)
- Geometry
 - Port patch [#40117](#) [27] that fixes an issue with usage of reflection matrices in assemblies and affected the GEANT4 interface.

Changes in version v5-30-05 (November 24, 2011)

- Proof
 - Import patches [#41958](#) [28] and [#41999](#) [29] to improve checks, definition and cleaning of the working dir in tutorials/proof/getProof.C
- Build System
 - Enable configuration of internal CINT array sizes (r42194 r42211, [#88752](#) [30]).

Changes in version v5-30-04 (November 8, 2011)

- TTree
 - Fix hadd when merger TFiles with more than one key for a TTree when doing a slow TTree merge. This fixes [#88224](#) [31]
 - Fix the asynchronous prefetcher in case of TChain
- Xrootd
 - Add support for building with external xrootd 3.1.0 or newer.
 - Backport of [bug #87880](#) [32].
- Core
 - Textinput: display the prompt when calling Getline() (r41662).
- Proof
 - Import patches [#41785](#) [33] and [#41786](#) [34] fixing an issue with packetizers preventing proper entry range processing and the file ordering in datasets.
 - Import patch [#41788](#) [35] fixing an issue with AddInputData when objects are TTree or derived.
 - Import patch [#41801](#) [36] fixing an issue in the packetizers potentially crashing PROOF-Lite at exit when using file-resident outputs.

Changes in version v5-30-03 (October 20, 2011)

- Core
 - Textinput: fix cursor move to next line for non-Windows (r41042).
- TTree
 - In TTree::GetLeaf (and thus indirectly in TTree::Scan, TTree::Draw), properly handle the case where the branch name has a slash in its name (but the leaf does not). This fixes [#86946](#) [37]
 - Fix an issue leading to reading too many elements of a split collection when one the data member needs to be cached for an i/o customization rule.
- Graf2D
 - Backport fix to be compatible with libpng 1.5.
- Net
 - Critical bug fix "return string->GetString()" and some optimization for TGridJDL.
- Proof
 - Import patches [#41313](#) [38], [#41336](#) [39], [#41355](#) [40], [#41378](#) [41] and [#41383](#) [42] fixing unprivileged multi-user support and access control.
 - Import patches [#41393](#) [43] and [#41399](#) [44] fixing possible issues with PATH and LD_LIBRARY_PATH settings for proofsrv.
 - Import patches [#40576](#) [45], [#40699](#) [46], [#40744](#) [47] and [#40758](#) [48] with the improvements in PROOF monitoring.
 - Import patch [#41493](#) [49], [#41526](#) [50] and [#41530](#) [51] fixing return codes on TProof::EnablePackage(...) failures.

Changes in version v5-30-02 (September 22, 2011)

- Core
 - Import patch [#40820](#) ^[52]. Make sure in BuildRealData, to consider all the data member of a transient class (class version 0) as transient. This fixes the issue [#86352](#) ^[53] in Savannah.
 - Textinput: fix handling of ESC / Meta (r40778).
 - Import patch [#40141](#) ^[54] fixing support for 'proto :/' in TUrl.
- Proof
 - Import patch [#40659](#) ^[55] fixing a possible seg violation when exiting ROOT.
 - Import patch [#40660](#) ^[56] restoring operability of the dynamic startup (broken by patch 36553).
 - Import patch [#40115](#) ^[57] with a few fixes in proofbench, including the possibility to run from any directory.
 - Import patches [#40912](#) ^[58] and [#40923](#) ^[59] adding the possibility to skip the checks for the data directories during session startup, as they may significantly slowdown the startup process if the medium is busy.
- I/O
 - Update the customization rule parser to allow rule for unsigned int data members.
 - Fix the handling of emulated class containing variable size array of objects.
 - Update MakeProject to properly handle classes containing variable size array of objects.
 - Prevents a memory leak in the handling of associative containers stored in a TTree, fixes issue [#85910](#) ^[60]
- RooStats
 - Fix a bug in the computation of the one-side Profile Likelihood test statistics (bug [#86013](#) ^[61]) which was introduced in 5.30.01 when using the RooMinimizer for the computation of the test statistic. Fix also the case when no nuisance parameters are present.
 - Fix in ModelConfig the re-definition of parameter sets.
 - Speedup computation of p-values (Integral) in SamplingDistribution by caching the empirical cdf.
 - Fix the rest of the pdf components cache in ToyMCSampler when setting a new pdf
 - Fix some minor issues in plotting SamplingDistribution's obtained from the HypoTestInverter
- Hist
 - Fix a bug in the TEfficiency destructor (see this [post](#) ^[62] on Root Forum)
- FitPanel
 - Fix a bug in using an already existing fit function (bug [#86251](#) ^[63])
- HistFactory
 - Fix for bug [#85481](#) ^[64].

Changes in version v5-30-01 (August 18, 2011)

- Build System
 - Reorder lzma.h search in ./configure, fixes issue [#83938](#) ^[65].
 - CMake fixes (r40282, r40283).
 - On OSX check in ./configure if a library is compatible with the architecture.
- Core
 - Textinput: fix handling of keyboard modifiers (r40118).
 - Import patch [#40272](#) ^[66] adding Hash(), IsSortable() and CompareTo() so that TParameter can be used in hash and/or sorted lists (e.g. gDirectory).
 - Properly support tilde (~) in TSystem::ExpandPathName() even when they are not the first character
 - Make sure we write at the end of the file in which we redirect stdout/stderr (avoid overwriting)
 - Import patch ^[67] [#40534](#) ^[68] to silence spurious warnings when removing objects from TObjectTable.
 - Allow home directory to be specified via HOME shell var in case there is no correct passwd file entry, fixes issue [#83268](#) ^[69]
- CINT
 - Repair the handling of failing to load a shared library [#85226](#). ^[67]
- I/O
 - Re-active the command line option -O and -T in hadd
 - Repair the merging of a single file in hadd (was not copying the TTree data.)
 - Add missing dictionary for ROOT::ECompressionAlgorithm
 - Fix a crash at the end of the process when a broken ROOT File (zombie) has been opened (fixes [#84035](#) ^[70].)
- TTree
 - Import fix [#40077](#) ^[71] to prevent the use of non-existent memory when reading in an object that is part of an STL collection and which used to contain an embedded object (and this data member has been removed)(bug [#83793](#) ^[72]).
 - Lift ancient restriction (imposed by VC++6) preventing the proper use of unsigned long long by TTreeFormula.
- Proof
 - Import new version 0.9.6 of afdsmgrd (patch [#40573](#) ^[73]) with improvements/fixes needed by ALICE.
 - Import patch [#40017](#) ^[74] making the query exit status available for monitoring and in the output list.
 - Import patch [#40068](#) ^[75] fixing an issue affecting GetSessionLogs in PROOF-Lite when invoked from the dialog

- box.
- Import patch [#40138](#) ^[76] fixing "workers=n" in PROOF-Lite.
- Import patch [#40170](#) ^[77] fixing an issue with directory assertion in xproofd.
- Import patch [#40186](#) ^[78] fixing an issue preventing immediate cleaning of histograms after merging with TH1::Add (histogram were still destroyed at the end of the query). The patch adds also master memory usage in TStatus.
- Import patches [#40243](#) ^[79] and [#40247](#) ^[80] fixing a possible segv when leaving proofbench.
- Import patch [#40359](#) ^[81] fixing an issue showing up in PROOF-Lite when merging via files.
- Rpdutils
 - Import patch [#40120](#) ^[82] fixing a compilation issue on OSX Lion.
- Netx/Xrootd
 - Import patches [#40435](#) ^[83] and [#40436](#) ^[84] to fix the issues preventing proper notification of XrdClient authentication errors.
- RooFit
 - Issue NLL error in RooRealSumPdf::expectedEvents() if return value is negative
 - Allow non-integer event counts in the extended likelihood term
 - Make automatic class import in RooWorkspace work properly with binary ROOT releases
 - In RooMinuit allocate MINUIT space for all initially constant parameters
 - in RooMinuit add option to control maximum evaluation count for each MINUIT operation
 - Streamline code in RooAbsArg to speed up import of complex pdfs in RooWorkspace
- RooStats
 - Apply a fix in HypoTestInverter to run a single point
 - Fix the streaming of the HypoTestInverterResult which was resulting in some crashes
 - Fix a bug in merging the HypoTestInverterResult objects
 - Switch on the flag AlwaysReuseNLL for the Likelihood test statistics
 - Fix a bug in FrequentistCalculator when computing the MLE for the nuisances when constant parameters are present.
 - Fix bug [#84542](#) ^[85] in HypoTestInverter
 - Fix a bug in interpolating limits in HypoTestInverterResult happening when the last point was higher than next-to-last.
 - Use the RooMinimizer when computing the profile likelihood test statistics
- HistFactory
 - Global observables associated parameters that are set constant in the XML are removed. The Global observable name associated with a HistoSys was nom_XXX and is now nom_alpha_XXX, this could lead to problems in combinations in which one channel had only a HistoSys and another channel had an OverallSys associated to the same systematic name XXX.
- TTreeView
 - Remove a call to TString::InitialCapacity, who was producing warning messages of the form: Warning in <TString::InitialCapacity>: obsolete as of v5-30-00 and will be removed from v5-32-00.
- MathCore
 - Apply fix for compiling on Fedora 16 i686 (bug [#84867](#) ^[86])

Changes in v5-30-00 (June 28, 2011)

- Build System
 - Changes to CMake: improve detection of external packages ([r39804](#) ^[87]).
 - Use Apple clang v3 by default when available ([r39805](#) ^[88]).
- I/O
 - Add xz package, which builds liblzma as builtin, so it is always available.
 - Extend valgrind suppression file.
 - Fix memory leak in test/Event.
 - Fix memory leak in the new TFile prefetcher.
 - Add explicit fatal error message in TFileMerger and hadd when the size of the output file goes over the maximum limit (TTree::Set/GetMaxTreeSize). See [Savannah #83405](#) ^[89]
- TTree
 - Properly recognize a TClonesArray data member even if the requested type was a typedef (to TClonesArray) that is in a namespace (for example edm::Event::ContainerType). ([39786](#) ^[90])
- Core
 - TextInput: improved treatment of read-ahead buffer ([r39790](#) ^[91])
 - TextInput: no unnecessary redraws ([r39862](#) ^[92])
 - TextInput: home / end key on debian ([bug #83478](#) ^[93], [r39863](#) ^[94])
 - TextInput: fix bug in clear-to-end-of-line visible on Windows ssh-ing to Linux ([r39884](#) ^[95])
 - TextInput: fix possible crash in paren-matching ([r39910](#) ^[96])
 - TextInput: fix infinite loop handling SIGABRT (e.g. .qqqqqqqq) ([r39941](#) ^[97])
- Xrootd

- Import the stable version 3.0.4
- Proof
 - Import patch [r39835](#) ^[98] fixing open issues with honoring the request for processing a fixed number of events and the correct handling of 'ForceLocal' requests when for local files; also fixes an issue with the handling of 'Stop' in PROOF-Lite.
 - Fix coverity warnings in TProofServ and TProofNodes (patch [r39878](#) ^[99])
 - Import patch [r39967](#) ^[100] introducing the protocol "pod://" to automatically address the entry point of the available PoD installation, and protocol "lite://" for PROOF-Lite sessions (in the place of "lite"; behavior of "" unchanged).
- TMVA
 - Fix stress test issue with ICC11 / 64bit. ([39890](#) ^[101])

Changes in v5-30-00-rc2 (June 15, 2011)

- Build System
 - Changes to CMake: TextInput, Windows dictionaries ([r39554](#) ^[102], [r39582](#) ^[103]).
- Core
 - Fix error when linking statically on OSX.
 - On non-Windows, root.exe is now killed when root is killed ([r39540](#) ^[104]).
 - TextInput: improved history management ([r39537](#) ^[105], [r39539](#) ^[106], [r39570](#) ^[107], [r39711](#) ^[108]).
 - TextInput: reset the terminal to a sane state after even more signals ([r39538](#) ^[109], [r39541](#) ^[110])
 - TextInput: on Windows, get dedicated handle to CONIN\$, CONOUT\$ to prevent redirection from stealing it ([r39543](#) ^[111]).
 - TextInput: on Windows, redraw the prompt if ROOT moved the cursor ([r39604](#) ^[112]).
 - TextInput: proper event loop for full line mode ([r39560](#) ^[113]).
 - TextInput: continue reading if ESC was entered, fixes ESC-f etc ([r39709](#) ^[114]).
 - TextInput: handle ROOT running in background ([r39591](#) ^[115]).
 - TextInput: reset input modifier for each new input, e.g. "Ctrl is pressed"; make it unsigned ([r39597](#) ^[116], [r39703](#) ^[117]).
 - On Windows, don't expand urls like root://user@any.where.com:1234/~user/...([r39624](#) ^[118]).
- I/O
 - Allow to explicit veto or force the splitting of a class to insure that its custom streamer is always used (([39694](#) ^[119]) fixing [Savannah #83119](#) ^[120])
 - Reduce memory footprint of the TFilePrefetch mechanism.
 - Introduce TBuffer::AutoExpand
 - Make the memcopy in TBuffer::Expand optional. Avoid this memcopy from TBasket::Reset.
 - Improve error handling in MakeProject, ([r39692](#) ^[121]) fixing [Savannah #83188](#) ^[122]
- TTree
 - Reduce the memory used by a TTree by sharing the scratch buffer used to hold the compressed data.
 - Do no assume that there is a least one '.root' in the filename passed to TChain::Add. ([r39588](#) ^[123])
 - Improve error recover in TTreeCloner in case of missing TTree or unwritable file ([39720](#) ^[124]) fixing [Savannah #83140](#) ^[125]
 - Make sure the TTreeCloner properly carry forward the value of the kDoNotUseBufferMap bit in the branch (Addendum to ([38801](#) ^[126]))
- Proof
 - Import patch [r39579](#) ^[127] avoid a segmentation fault when reading file where the AutoFlush mechanism has been disabled and the TTreeCache is requested nonetheless.
 - Import patch [r39580](#) ^[128] fixing an issue with connections via a SSH tunnel.
 - Import patch [r39585](#) ^[129] fixing an issue preventing the correct handling of a 'Stop' request.
- Graf3d
 - Generalize transition-point search in RhoZ projection, fixing a rare infinite loop in projections of TEveStraightLineSet class.
 - Add GUI for auto-saving of images in the "Extras" tab of GL-viewer GUI.
- CINT
 - Avoid possible buffer underrun for empty (e.g. '@'-cancelled) commands ([r39705](#) ^[130]).
- THtml
 - Adapt to new (now standard) location of the headers of TMVA and the RooFit family ([r39713](#) ^[131]).

See the [release notes](#) ^[132] and [development notes](#) ^[133] for what is new in the [version 5.30/00 release](#) ^[134].

© 1995-2013 The ROOT Team

Source URL: <http://root.cern.ch/drupal/content/root-version-v5-30-00-patch-release-notes>

Links:

[1] <http://root.cern.ch/drupal/category/package-context/download>

[2] <http://root.cern.ch/drupal/category/package-context/patches>
[3] <http://root.cern.ch/drupal/category/package-context/v5-30-00>
[4] ftp://root.cern.ch/root/root_v5.30.06.source.tar.gz
[5] <http://root.cern.ch/drupal/content/git-howto>
[6] <http://root.cern.ch/git/root.git>
[7] <http://root.cern.ch/drupal/content/installing-root-source>
[8] <http://root.cern.ch/viewvc?rev=42805&root=root&view=rev>
[9] <https://savannah.cern.ch/bugs/index.php?83909>
[10] <http://root.cern.ch/viewvc?rev=42757&root=root&view=rev>
[11] <https://savannah.cern.ch/bugs/?94669>
[12] <http://savannah.cern.ch/bugs/?98126>
[13] <https://savannah.cern.ch/bugs/?90826>
[14] <http://root.cern.ch/viewvc?rev=42660&root=root&view=rev>
[15] <http://root.cern.ch/viewvc?rev=42578&root=root&view=rev>
[16] <http://root.cern.ch/drupal/content/analysing-performance-tree>
[17] <http://root.cern.ch/viewvc?rev=42671&root=root&view=rev>
[18] <http://root.cern.ch/viewvc?rev=41745&root=root&view=rev>
[19] <http://root.cern.ch/viewvc?rev=42904&root=root&view=rev>
[20] <http://root.cern.ch/viewvc?rev=42921&root=root&view=rev>
[21] <http://root.cern.ch/viewvc?rev=43245&root=root&view=rev>
[22] <http://root.cern.ch/viewvc?rev=44048&root=root&view=rev>
[23] <http://savannah.cern.ch/bugs/?91505>
[24] <https://savannah.cern.ch/bugs/index.php?89645>
[25] <http://root.cern.ch/viewvc?rev=42142&root=root&view=rev>
[26] <http://root.cern.ch/viewvc?rev=42451&root=root&view=rev>
[27] <http://root.cern.ch/viewvc?view=rev&sortby=rev&revision=40117>
[28] <http://root.cern.ch/viewvc?rev=41958&root=root&view=rev>
[29] <http://root.cern.ch/viewvc?rev=41999&root=root&view=rev>
[30] <https://savannah.cern.ch/bugs/?88752>
[31] <http://savannah.cern.ch/bugs/?88224>
[32] <http://xrootd.cern.ch/cgi-bin/cgit.cgi/xrootd/commit/?id=d10c528900539891037566b5d26c26be1c662132>
[33] <http://root.cern.ch/viewvc?rev=41785&root=root&view=rev>
[34] <http://root.cern.ch/viewvc?rev=41786&root=root&view=rev>
[35] <http://root.cern.ch/viewvc?rev=41788&root=root&view=rev>
[36] <http://root.cern.ch/viewvc?rev=41801&root=root&view=rev>
[37] <http://savannah.cern.ch/bugs/?86946>
[38] <http://root.cern.ch/viewvc?rev=41313&root=root&view=rev>
[39] <http://root.cern.ch/viewvc?rev=41336&root=root&view=rev>
[40] <http://root.cern.ch/viewvc?rev=41355&root=root&view=rev>
[41] <http://root.cern.ch/viewvc?rev=41378&root=root&view=rev>
[42] <http://root.cern.ch/viewvc?rev=41383&root=root&view=rev>
[43] <http://root.cern.ch/viewvc?rev=41393&root=root&view=rev>
[44] <http://root.cern.ch/viewvc?rev=41399&root=root&view=rev>
[45] <http://root.cern.ch/viewvc?rev=40576&root=root&view=rev>
[46] <http://root.cern.ch/viewvc?rev=40699&root=root&view=rev>
[47] <http://root.cern.ch/viewvc?rev=40744&root=root&view=rev>
[48] <http://root.cern.ch/viewvc?rev=40758&root=root&view=rev>
[49] <http://root.cern.ch/viewvc?rev=41493&root=root&view=rev>
[50] <http://root.cern.ch/viewvc?rev=41526&root=root&view=rev>
[51] <http://root.cern.ch/viewvc?rev=41530&root=root&view=rev>
[52] <http://root.cern.ch/viewvc?rev=40820&root=root&view=rev>
[53] <https://savannah.cern.ch/bugs/?86352>
[54] <http://root.cern.ch/viewvc?rev=40141&root=root&view=rev>
[55] <http://root.cern.ch/viewvc?rev=40659&root=root&view=rev>
[56] <http://root.cern.ch/viewvc?rev=40660&root=root&view=rev>
[57] <http://root.cern.ch/viewvc?rev=40115&root=root&view=rev>
[58] <http://root.cern.ch/viewvc?rev=40912&root=root&view=rev>
[59] <http://root.cern.ch/viewvc?rev=40923&root=root&view=rev>
[60] <https://savannah.cern.ch/bugs/?85910>
[61] <https://savannah.cern.ch/bugs/?86013>
[62] <http://root.cern.ch/phpBB3/viewtopic.php?f=3&t=13398>
[63] <http://https://savannah.cern.ch/bugs/?86251>
[64] <https://savannah.cern.ch/bugs/?85481>
[65] <https://savannah.cern.ch/bugs/?83938>
[66] <http://root.cern.ch/viewvc?rev=40272&root=root&view=rev>
[67] <https://savannah.cern.ch/bugs/?85226>
[68] <http://root.cern.ch/viewvc?rev=40534&root=root&view=rev>
[69] <http://savannah.cern.ch/bugs/?83268>
[70] <https://savannah.cern.ch/bugs/?84035>
[71] <http://root.cern.ch/viewvc?rev=40077&root=root&view=rev>
[72] <https://savannah.cern.ch/bugs/?83793>
[73] <http://root.cern.ch/viewvc?rev=40573&root=root&view=rev>
[74] <http://root.cern.ch/viewvc?rev=40017&root=root&view=rev>
[75] <http://root.cern.ch/viewvc?rev=40068&root=root&view=rev>
[76] <http://root.cern.ch/viewvc?rev=40138&root=root&view=rev>
[77] <http://root.cern.ch/viewvc?rev=40170&root=root&view=rev>
[78] <http://root.cern.ch/viewvc?rev=40186&root=root&view=rev>
[79] <http://root.cern.ch/viewvc?rev=40243&root=root&view=rev>
[80] <http://root.cern.ch/viewvc?rev=40247&root=root&view=rev>
[81] <http://root.cern.ch/viewvc?rev=40359&root=root&view=rev>
[82] <http://root.cern.ch/viewvc?rev=40120&root=root&view=rev>

[83] <http://root.cern.ch/viewvc?rev=40435&root=root&view=rev>
[84] <http://root.cern.ch/viewvc?rev=40436&root=root&view=rev>
[85] <https://savannah.cern.ch/bugs/index.php?84542>
[86] <https://savannah.cern.ch/bugs/?84867>
[87] <http://root.cern.ch/viewcvs?view=rev&revision=39804>
[88] <http://root.cern.ch/viewcvs?view=rev&revision=39805>
[89] <https://savannah.cern.ch/bugs/index.php?83405>
[90] <http://root.cern.ch/viewcvs?view=rev&revision=39786>
[91] <http://root.cern.ch/viewcvs?view=rev&revision=39790>
[92] <http://root.cern.ch/viewcvs?view=rev&revision=39862>
[93] <http://savannah.cern.ch/bugs/?83478>
[94] <http://root.cern.ch/viewcvs?view=rev&revision=39863>
[95] <http://root.cern.ch/viewcvs?view=rev&revision=39884>
[96] <http://root.cern.ch/viewcvs?view=rev&revision=39910>
[97] <http://root.cern.ch/viewcvs?view=rev&revision=39941>
[98] <http://root.cern.ch/viewcvs?view=rev&revision=39835>
[99] <http://root.cern.ch/viewcvs?view=rev&revision=39878>
[100] <http://root.cern.ch/viewcvs?view=rev&revision=39967>
[101] <http://root.cern.ch/viewcvs?view=rev&revision=39890>
[102] <http://root.cern.ch/viewcvs?view=rev&revision=39554>
[103] <http://root.cern.ch/viewcvs?view=rev&revision=39582>
[104] <http://root.cern.ch/viewcvs?view=rev&revision=39540>
[105] <http://root.cern.ch/viewcvs?view=rev&revision=39537>
[106] <http://root.cern.ch/viewcvs?view=rev&revision=39539>
[107] <http://root.cern.ch/viewcvs?view=rev&revision=39570>
[108] <http://root.cern.ch/viewcvs?view=rev&revision=39711>
[109] <http://root.cern.ch/viewcvs?view=rev&revision=39538>
[110] <http://root.cern.ch/viewcvs?view=rev&revision=39541>
[111] <http://root.cern.ch/viewcvs?view=rev&revision=39543>
[112] <http://root.cern.ch/viewcvs?view=rev&revision=39604>
[113] <http://root.cern.ch/viewcvs?view=rev&revision=39560>
[114] <http://root.cern.ch/viewcvs?view=rev&revision=39709>
[115] <http://root.cern.ch/viewcvs?view=rev&revision=39591>
[116] <http://root.cern.ch/viewcvs?view=rev&revision=39597>
[117] <http://root.cern.ch/viewcvs?view=rev&revision=39703>
[118] <http://root.cern.ch/viewcvs?view=rev&revision=39624>
[119] <http://root.cern.ch/viewcvs?view=rev&revision=39694>
[120] <https://savannah.cern.ch/bugs/index.php?83119>
[121] <http://root.cern.ch/viewcvs?view=rev&revision=39692>
[122] <https://savannah.cern.ch/bugs/index.php?83188>
[123] <http://root.cern.ch/viewcvs?view=rev&revision=39588>
[124] <http://root.cern.ch/viewcvs?view=rev&revision=39720>
[125] <https://savannah.cern.ch/bugs/index.php?83140>
[126] <http://root.cern.ch/viewcvs?view=rev&revision=38801>
[127] <http://root.cern.ch/viewcvs?view=rev&revision=39579>
[128] <http://root.cern.ch/viewcvs?view=rev&revision=39580>
[129] <http://root.cern.ch/viewcvs?view=rev&revision=39585>
[130] <http://root.cern.ch/viewcvs?view=rev&revision=39705>
[131] <http://root.cern.ch/viewcvs?view=rev&revision=39713>
[132] <http://root.cern.ch/root/html530/notes/release-notes.html>
[133] <http://root.cern.ch/root/html530/notes/dev-notes.html>
[134] <http://root.cern.ch/drupal/content/production-version-530>