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ROOT Version v5-30-00 Patch Release Notes

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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 [Subversion](#) ^[5] using:

```
svn co http://root.cern.ch/svn/root/tags/v5-30-06 [6] root
```

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:

```
svn co http://root.cern.ch/svn/root/branches/v5-30-00-patches [8] root
```

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

- Cint
 - Import patch [#42805](#) ^[9] fixing the problem [#83909](#) ^[10] which leading to failure of the auto-dictionary generator when dealing with class template inside a namespace.
- Core
 - Import patch [#42757](#) ^[11] 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](#)). ^[12]
 - In TTreeSQL prevent a spurious duplicate column error (Fixes Savannah issues [#98126](#) ^[13]).
- 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](#) ^[14].
- Proof
 - Reorder pq2 libraries for Ubuntu 11.10 ([r42660](#) ^[15]).
 - Import patch [#42578](#) ^[16] fixing in getProof.C some issues mostly related to PROOF-Lite.
 - Import class to analyse the performance tree (see [description](#) ^[17])
 - Adapt patch [#42671](#) ^[18] 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](#) ^[19] fixing TFileCollection::Merge.
 - Import patch [#42904](#) ^[20] in TProofOutputFile changing the default mode for merging histograms in TFileMerger, to reduce the memory footprint.
 - Import patch [#42921](#) ^[21] to add also to TXUnixSocket the possibility to disable reconnections via the variable TXSocket.Reconnect (0 disable reconnections; default is 1) .
 - Import patch [#43245](#) ^[22] fixing an issue with forcing local copies of files before merging (bit not always honored).
 - Import patch [#44048](#) ^[23] 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](#) [24]: allow null-characters in strings passed through the binding.

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

- TTree
 - Resolve [#89645](#) [25] 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](#) [26] and [#42451](#) [27] 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](#) [28] 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](#) [29] and [#41999](#) [30] 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](#) [31]).

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](#) [32]
 - 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](#) [33].
- Core
 - Textinput: display the prompt when calling Getline() (r41662).
- Proof
 - Import patches [#41785](#) [34] and [#41786](#) [35] fixing an issue with packetizers preventing proper entry range processing and the file ordering in datasets.
 - Import patch [#41788](#) [36] fixing an issue with AddInputData when objects are TTree or derived.
 - Import patch [#41801](#) [37] 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](#) [38]
 - 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](#) [39], [#41336](#) [40], [#41355](#) [41], [#41378](#) [42] and [#41383](#) [43] fixing unprivileged multi-user support and access control.
 - Import patches [#41393](#) [44] and [#41399](#) [45] fixing possible issues with PATH and LD_LIBRARY_PATH settings for proofsrv.
 - Import patches [#40576](#) [46], [#40699](#) [47], [#40744](#) [48] and [#40758](#) [49] with the improvements in PROOF monitoring.
 - Import patch [#41493](#) [50], [#41526](#) [51] and [#41530](#) [52] fixing return codes on TProof::EnablePackage(...) failures.

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

- Core
 - Import patch [#40820](#) ^[53]. Make sure in BuildRealData, to consider all the data member of a transient class (class version 0) as transient. This fixes the issue [#86352](#) ^[54] in Savannah.
 - Textinput: fix handling of ESC / Meta (r40778).
 - Import patch [#40141](#) ^[55] fixing support for 'proto :/' in TUrl.
- Proof
 - Import patch [#40659](#) ^[56] fixing a possible seg violation when exiting ROOT.
 - Import patch [#40660](#) ^[57] restoring operability of the dynamic startup (broken by patch 36553).
 - Import patch [#40115](#) ^[58] with a few fixes in proofbench, including the possibility to run from any directory.
 - Import patches [#40912](#) ^[59] and [#40923](#) ^[60] 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](#) ^[61]
- RooStats
 - Fix a bug in the computation of the one-side Profile Likelihood test statistics (bug [#86013](#) ^[62]) 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](#) ^[63] on Root Forum)
- FitPanel
 - Fix a bug in using an already existing fit function (bug [#86251](#) ^[64])
- HlstFactory
 - Fix for bug [#85481](#) ^[65].

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

- Build System
 - Reorder lzma.h search in ./configure, fixes issue [#83938](#) ^[66].
 - 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](#) ^[67] 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 ^[68] [#40534](#) ^[69] 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](#) ^[70]
- CINT
 - Repair the handling of failing to load a shared library [#85226](#). ^[68]
- 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](#) ^[71].)
- TTree
 - Import fix [#40077](#) ^[72] to prevent the use of non-existent memory when reading in an object that is part of an STL collection and which used to contains an embedded object (and this data member has been removed)(bug [#83793](#) ^[73]).
 - Lift ancien 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](#) ^[74]) with improvements/fixes needed by ALICE.
 - Import patch [#40017](#) ^[75] making the query exit status available for monitoring and in the output list.
 - Import patch [#40068](#) ^[76] fixing an issue affecting GetSessionLogs in PROOF-Lite when invoked from the dialog box.
 - Import patch [#40138](#) ^[77] fixing "workers=n" in PROOF-Lite.

- Import patch [#40170](#) ^[78] fixing an issue with directory assertion in xproofd.
- Import patch [#40186](#) ^[79] 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](#) ^[80] and [#40247](#) ^[81] fixing a possible segv when leaving proofbench.
- Import patch [#40359](#) ^[82] fixing an issue showing up in PROOF-Lite when merging via files.
- Rpdutils
 - Import patch [#40120](#) ^[83] fixing a compilation issue on OSX Lion.
- Netx/Xrootd
 - Import patches [#40435](#) ^[84] and [#40436](#) ^[85] 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](#) ^[86] 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](#) ^[87])

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

- Build System
 - Changes to CMake: improve detection of external packages ([r39804](#) ^[88]).
 - Use Apple clang v3 by default when available ([r39805](#) ^[89]).
- 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](#) ^[90]
- 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](#) ^[91])
- Core
 - TextInput: improved treatment of read-ahead buffer ([r39790](#) ^[92])
 - TextInput: no unnecessary redraws ([r39862](#) ^[93])
 - TextInput: home / end key on debian ([bug #83478](#) ^[94], [r39863](#) ^[95])
 - TextInput: fix bug in clear-to-end-of-line visible on Windows ssh-ing to Linux ([r39884](#) ^[96])
 - TextInput: fix possible crash in paren-matching ([r39910](#) ^[97])
 - TextInput: fix infinite loop handling SIGABRT (e.g. .qqqqqqqq) ([r39941](#) ^[98])
- Xrootd
 - Import the stable version 3.0.4
- Proof

- Import patch [r39835](#) ^[99] 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](#) ^[100])
- Import patch [r39967](#) ^[101] 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](#) ^[102])

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

- Build System
 - Changes to CMake: TextInput, Windows dictionaries ([r39554](#) ^[103], [r39582](#) ^[104]).
- Core
 - Fix error when linking statically on OSX.
 - On non-Windows, root.exe is now killed when root is killed ([r39540](#) ^[105]).
 - TextInput: improved history management ([r39537](#) ^[106], [r39539](#) ^[107], [r39570](#) ^[108], [r39711](#) ^[109]).
 - TextInput: reset the terminal to a sane state after even more signals ([r39538](#) ^[110], [r39541](#) ^[111])
 - TextInput: on Windows, get dedicated handle to CONIN\$, CONOUT\$ to prevent redirection from stealing it ([r39543](#) ^[112]).
 - TextInput: on Windows, redraw the prompt if ROOT moved the cursor ([r39604](#) ^[113]).
 - TextInput: proper event loop for full line mode ([r39560](#) ^[114]).
 - TextInput: continue reading if ESC was entered, fixes ESC-f etc ([r39709](#) ^[115]).
 - TextInput: handle ROOT running in background ([r39591](#) ^[116]).
 - TextInput: reset input modifier for each new input, e.g. "Ctrl is pressed"; make it unsigned ([r39597](#) ^[117], [r39703](#) ^[118]).
 - On Windows, don't expand urls like root://user@any.where.com:1234/~user/...([r39624](#) ^[119]).
- I/O
 - Allow to explicit veto or force the splitting of a class to insure that its custom streamer is always used (([39694](#) ^[120]) fixing [Savannah #83119](#) ^[121])
 - 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](#) ^[122]) fixing [Savannah #83188](#) ^[123]
- 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](#) ^[124])
 - Improve error recover in TTreeCloner in case of missing TTree or unwritable file ([39720](#) ^[125]) fixing [Savannah #83140](#) ^[126]
 - Make sure the TTreeCloner properly carry forward the value of the kDoNotUseBufferMap bit in the branch (Addendum to ([38801](#) ^[127]))
- Proof
 - Import patch [r39579](#) ^[128] avoid a segmentation fault when reading file where the AutoFlush mechanism has been disabled and the TTreeCache is requested nonetheless.
 - Import patch [r39580](#) ^[129] fixing an issue with connections via a SSH tunnel.
 - Import patch [r39585](#) ^[130] 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](#) ^[131]).
- THtml
 - Adapt to new (now standard) location of the headers of TMVA and the RooFit family ([r39713](#) ^[132]).

See the [release notes](#) ^[133] and [development notes](#) ^[134] for what is new in the [version 5.30/00 release](#) ^[135].

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

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[97] <http://root.cern.ch/viewcvs?view=rev&revision=39910>
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[99] <http://root.cern.ch/viewcvs?view=rev&revision=39835>
[100] <http://root.cern.ch/viewcvs?view=rev&revision=39878>
[101] <http://root.cern.ch/viewcvs?view=rev&revision=39967>
[102] <http://root.cern.ch/viewcvs?view=rev&revision=39890>
[103] <http://root.cern.ch/viewcvs?view=rev&revision=39554>
[104] <http://root.cern.ch/viewcvs?view=rev&revision=39582>
[105] <http://root.cern.ch/viewcvs?view=rev&revision=39540>
[106] <http://root.cern.ch/viewcvs?view=rev&revision=39537>
[107] <http://root.cern.ch/viewcvs?view=rev&revision=39539>
[108] <http://root.cern.ch/viewcvs?view=rev&revision=39570>
[109] <http://root.cern.ch/viewcvs?view=rev&revision=39711>
[110] <http://root.cern.ch/viewcvs?view=rev&revision=39538>
[111] <http://root.cern.ch/viewcvs?view=rev&revision=39541>
[112] <http://root.cern.ch/viewcvs?view=rev&revision=39543>
[113] <http://root.cern.ch/viewcvs?view=rev&revision=39604>
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[116] <http://root.cern.ch/viewcvs?view=rev&revision=39591>
[117] <http://root.cern.ch/viewcvs?view=rev&revision=39597>
[118] <http://root.cern.ch/viewcvs?view=rev&revision=39703>
[119] <http://root.cern.ch/viewcvs?view=rev&revision=39624>
[120] <http://root.cern.ch/viewcvs?view=rev&revision=39694>
[121] <https://savannah.cern.ch/bugs/index.php?83119>
[122] <http://root.cern.ch/viewcvs?view=rev&revision=39692>
[123] <https://savannah.cern.ch/bugs/index.php?83188>
[124] <http://root.cern.ch/viewcvs?view=rev&revision=39588>
[125] <http://root.cern.ch/viewcvs?view=rev&revision=39720>
[126] <https://savannah.cern.ch/bugs/index.php?83140>
[127] <http://root.cern.ch/viewcvs?view=rev&revision=38801>
[128] <http://root.cern.ch/viewcvs?view=rev&revision=39579>
[129] <http://root.cern.ch/viewcvs?view=rev&revision=39580>
[130] <http://root.cern.ch/viewcvs?view=rev&revision=39585>
[131] <http://root.cern.ch/viewcvs?view=rev&revision=39705>
[132] <http://root.cern.ch/viewcvs?view=rev&revision=39713>
[133] <http://root.cern.ch/root/html530/notes/release-notes.html>
[134] <http://root.cern.ch/root/html530/notes/dev-notes.html>
[135] <http://root.cern.ch/drupal/content/production-version-530>