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ROOT Version v5-26-00 Patch Release Notes

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A new production version ROOT v5-26-00g has been released September 29, 2011.

Binary tar balls are not available for patch releases.

The AFS version of v5-26-00g for many different platforms and compilers can be found at:

[/afs/cern.ch/sw/lcg/app/releases/ROOT/5.26.00g/](http://afs.cern.ch/sw/lcg/app/releases/ROOT/5.26.00g/)

The complete source tree for all systems (23.5 MB) is available here:

ftp://root.cern.ch/root/root_v5.26.00g.source.tar.gz ^[4]

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

```
svn co http://root.cern.ch/svn/root/tags/v5-26-00g [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 v5-26-00-patches branch do:

```
svn co http://root.cern.ch/svn/root/branches/v5-26-00-patches [8] root
```

Changes in the head of the v5-26-00-patches branch

- **configure**
 - Import patches to support smooth configuration on Ubuntu 11.04 or newer (automatic detection of the new location of the system libraries)
- **Proof**
 - Import patches [#41393](#) ^[9] and [#41399](#) ^[10] fixing possible issues with PATH and LD_LIBRARY_PATH settings for proofserv.
 - Adapt patch [#39078](#) ^[11] to bypass a compilation problem with gcc 4.5.2 on linux.

Changes in version v5-26-00g (September 29, 2011)

- **Core**
 - Allow home directory to be specified via HOME shell var in case there is no correct passwd file entry, fixes issue [83268](#) ^[12]
- **xrootd**
 - Backport in xrootd of [this fix](#) ^[13] for ATLAS.

Changes in version v5-26-00f (June 21, 2011)

- **IO**
 - Avoid spurious warning message when reading file with a TTree written with ROOT 5.29/03 or later:

```
Warning in : Counter fNClusterRange should not be skipped from class TTree
```
- **Proof**
 - In TProofPlayerRemote::IsClient, import fix [#36440](#) ^[14] adding a missing protection to fix a crash in submerger mode when the output list contained TProofOutputFile objects.
 - In TProof, import fix [#35965](#) ^[15] to correctly update the number of submergers when workers die (it should fix an

issue experienced by ALICE).

- Hist
 - Import fix [#36552](#) ^[16] fixing TH1::IntegralAndError()
 - Import fix [#39628](#) ^[17] in TH1::LabelsInflate or Deflate (bug [#83066](#) ^[18]).
- Xrootd
 - In XrdSecProtocolkrb5, fix possible source of infinite loop during token init (backport from the Xroot head).
 - In XrdClientConn, fix possible source of infinite loop during the authentication phase (includes check on the tty; backport from the Xroot head)

Changes in version v5-26-00e (Oct 13, 2010)

- Cint
 - When generating code for the typedef within a class, make sure to treat bool as a built-in.
 - Avoid a segmentation fault when parsing a class with virtual inheritance and a using declaration.
 - genreflex: fix for functions taking a template with an array template parameter (r35203, [bug #71800](#) ^[19]).
 - Properly set the class version for ClassDef()'ed classes with a Reflex dictionary (r35514, r35515; [bug #72749](#) ^[20]).
- Tree
 - Prevent the use of an optimized StreamerInfo when reading a collection streamed member wise. This solves [the issue 73642 reported in Atlas' Savannah](#). ^[21]
 - Fix TTree::Draw's problem with STL container accessed via a function (See [bug #72398](#) ^[22])
- Net
 - In TFileStager::IsStaged, Import fix [#32312](#) ^[23]: always close files after testing.
- Proof
 - Fix out-of-bounds buffer access in RecvLogFile().
- Math
 - Fix a problem in both Minuit2Minimizer and TMInuitMinimizer when re-defining a parameter (see ROOT Forum post [9947](#) ^[24]).

Changes in version v5-26-00d (Aug 24, 2010)

- Cint
 - Enable genreflex selection of free-standing operators (r34616 r34639, [bug #70660](#) ^[25])
 - Correctly handle C++-style comments in multi-line input. (r34746, [bug #71186](#) ^[26])
 - Fix reset of value reference after parameter conversion (r34763).
- IO
 - Add a protection when reading a file that contains a collection streamed memberwise .. but the collection was always empty.
- Proof
 - Import change [#33437](#) ^[27] and [#34714](#) ^[28]: fixing an issue with binary location when configuring with '--prefix='.

Changes in version v5-26-00c (Jul 6, 2010)

- Core
 - Restore and improve time required to startup root.exe and load shared libraries.
 - Improve configure's -fPIC detection for static libraries (r32354).
 - Support of version detection for non-English Microsoft Compilers (r32434, [bug #63411](#) ^[29]).
 - TString::operator+=(double) had an insufficient precision (r32435, [bug #62965](#) ^[30]).
 - Fix terminal interaction of ROOT started in the background (r32638).
 - Fixes in TRefArray for issues: [Plugin Not Found](#) ^[31], [Plugin Not Found](#) ^[31], [Plugin Not Found](#) ^[31].
 - Fix warning issued by VC9 in TTimeStamp.h, fixes issue: [Plugin Not Found](#) ^[31].
 - Do not skip the first line when reading a root history file ([Plugin Not Found](#) ^[31]).
 - If the process is not attached to a tty or if it is in the background, do not ask the (absent) user if the process should be prevented from exiting in case of error ([Plugin Not Found](#) ^[31]).
 - Improve's ACLiC handling of include directive (in particular add support for directory named "something-ICC" (r32784 r32873))
 - Fix the ACLiC .d file by using the build directory in the target part (rather than the source directory) ([Plugin Not Found](#) ^[31])
 - In ACLiC's dependency files (.d) make sure to only use the unix notation (on windows) ([Plugin Not Found](#) ^[31])
 - Fix ACLiC's .d file dictionary version part ([Plugin Not Found](#) ^[31])
 - Make the error message of TClonesArray::SetClass(const char*) more specific. ([Plugin Not Found](#) ^[31])

- Editline now allows FILE* based I/O on stdin if it's not a tty ([Savannah #67484](#) ^[32], r33561).
- In TClassTable, normalize 'long long' to 'Long64_t' in lookups as we are already doing on input ([Savannah #66312](#) ^[33], r34038).
- Add protection in TUnixSystem::StackTrace() in case gApplication is 0 ([Plugin Not Found](#) ^[31]).
- Add missing entry for gsidcap protocol in P020_TDCacheSystem.C plugin macro ([Plugin Not Found](#) ^[31]).
- I/O
 - Added support for reading file written by 5.27/02 and containing a data member like:


```
std::container *fDataObjects;
```

 which has been streamed member-wise (see revision r33173 of the trunk).
 - Avoid spurious warning message when reading file produced by ROOT v5.27 and above.
 - Properly handle the case where a read rule is associate with the 'current' TStreamerInfo when this TStreamerInfo is used for writing.
 - If the process is not attached to a tty or if it is in the background, do not ask the (absent) user if the process should be prevented from exiting in case of error ([Plugin Not Found](#) ^[31]).
 - Improve's ACLiC handling of include directive (in particular add support for directory named "something-ICC" (r32784 r32873))
 - Fix the ACLiC .d file by using the build directory in the target part (rather than the source directory) ([Plugin Not Found](#) ^[31])
 - In ACLiC's dependency files (.d) make sure to only use the unix notation (on windows) ([Plugin Not Found](#) ^[31])
 - Fix ACLiC's .d file dictionary version part ([Plugin Not Found](#) ^[31])
 - Make the error message of TClonesArray::SetClass(const char*) more specific. ([Plugin Not Found](#) ^[31])
- Meta/Cint
 - Prevent the automatic dictionary's name from containing colon characters (r32383).
 - Add dictionary for `vector<pair<int, int> >` used in TSchemaRule (r32476, [bug #53130](#) ^[34]).
 - Prevent object related to TClass and CINT from being allocated inside a TMapFile.
 - Fix the handling of function pointer types in TCint (r33121).
 - Fix out of string range access error in TClassEdit ([Plugin Not Found](#) ^[31]).
 - Avoid reading before the start of an empty string in TClassEdit.cxx ([Plugin Not Found](#) ^[31])
 - Add one more valgrind suppression about TClassRef ([Plugin Not Found](#) ^[31]).
 - Add missing protection against creation of CINT and Meta objects during a TMapFile streaming ([Plugin Not Found](#) ^[31])
 - Remove fixed length array in TCint.cxx ([Plugin Not Found](#) ^[31])
 - Avoid problem case where TROOT::LoadClass is being called with a string that is changed/deleted during its execution (by an autoloader for example). This fixes the problem seen in the forum topic [Plugin Not Found](#) ^[31] ([Plugin Not Found](#) ^[31])
- Cint
 - PyCintex now uses RuntimeError instead of string exception (r32422, [bug #63328](#) ^[35])
 - In genreflex, fix suppression of array-bounds warning with GCC (r32433, [bug #63267](#) ^[36]).
 - Improve detection of character set to not swallow some non-ASCII7 characters (r32445).
 - Fix crashes in function invocations through Cintex on Windows with debug runtime (r32634).
 - Work around an issue with calling virtual destructors in bases on Windows (r32635).
 - Don't generate collection proxy for Windows iterators (r32637).
 - Fix uninitialized members reported by Coverity (r32639, r32640, r32641).
 - Avoid using colons in the AutoDict file names ([Plugin Not Found](#) ^[31]).
 - Replace a crash by an error message in the case where stdout or stderr is already redirect when a redirection is aksed for (r32416).
 - properly reset G__value::reftype.reftype when needed in the bytecode engine ([Plugin Not Found](#) ^[31])
 - Do not cause an overflow signal just because we cast the result of line processing to a long. Set it to LONG_MAX/MIN instead. ([Plugin Not Found](#) ^[31]).
 - In shift operators, do not always promote to long, stop at int first. ([Plugin Not Found](#) ^[31])
 - Fix the cases where the wrong function's parameter was being reset ([Plugin Not Found](#) ^[31])
 - Fix random memory read in G__cattemplatearg by avoid to use a pointer into memory that might be move ([Plugin Not Found](#) ^[31])
 - Try to load explicitly .filename but filename as the earlier is more friendly to dlopen ([Plugin Not Found](#) ^[31])
 - make sure we are loading the dictionary information about member function before looking for a template member function instance. This fixes the report [Plugin Not Found](#) ^[31] in Savannah. ([Plugin Not Found](#) ^[31])
 - Make sure to autoloader a class before allocating any object of that type ([Plugin Not Found](#) ^[31])
 - Properly parse typedef long long* pointer when there is more than one space between the star and the typedef

- name. Generate the dictionary for vector < long long > and vector < unsigned long long > ([Plugin Not Found](#) ^[31])
- Make sure the list of library is recalculated whenever G__smart_unload is used; This fixes Savannah [Plugin Not Found](#) ^[31] ([Plugin Not Found](#) ^[31])
 - Avoid premature deletion of objects used as the default parameter of an interpreted function.
 - Fix a crash caused by a misplaced semicolon ([issue #68454](#) ^[37], r33860)
 - Avoid a crash when interpreting an (illegal) call to a non-static member function without an object
 - TTree
 - Prevent DropBaskets from dropping baskets that are not stored individually (and hence potentially not recoverable).
 - Fix a lookup problem resulting a TTree::Draw not finding the data in some (complex) case of object nesting.
 - Do not core dump when called with an empty chain. Show the branches of a chain's underlying's tree's friend in addition to the branches of the chain and of the chain's friends ([Plugin Not Found](#) ^[31]).
 - Add missing re-initialization in TBranchProxy (part of TTree::MakeProxy) ([Plugin Not Found](#) ^[31]).
 - When drawing a polymarker make Same is the same as same ([Plugin Not Found](#) ^[31])
 - Fix a couple of internal memory leaks ([Plugin Not Found](#) ^[31])
 - Properly re-update the friend branch address when the friend is a chain composed of 'smaller' trees than the main chain is. This fixes savannah [Plugin Not Found](#) ^[31] ([Plugin Not Found](#) ^[31])
 - Improve the error message(s) issued by TTree::Show in case of failure to load the data ([Plugin Not Found](#) ^[31])
 - Add missing protection in the case we have an embedded object in a split branch which has been 'removed' from the current schema ([Plugin Not Found](#) ^[31])
 - Do not use any array dimension in the branchnames created by TTree::ReadFile ([Plugin Not Found](#) ^[31])
 - In TTree::Draw: Avoid confusing '2000 < var' with in a file name '2000' (due to IsFileInIncludePath stripping what it thinks to be an I/O indirection) ([Plugin Not Found](#) ^[31])
 - In TChain::SetEntryList use only the treename to lookup the (sub)entryList (instead subdir/treename) ([Plugin Not Found](#) ^[31])
 - Do not over-write the default value for TTree::fgMaxTreeSize as it is the one we want (and the setting smaller than expected by a factor 10) ([Plugin Not Found](#) ^[31])
 - Add missing protection in the case we have an embedded object in a split branch which has been 'removed' from the current schema ([Plugin Not Found](#) ^[31])
 - Make sure that gPerfStats is properly updated if the TTreePerfStats is deleted ([Plugin Not Found](#) ^[31])
 - Properly detect all ACLiC modes in TSelector::GetSelector ([Plugin Not Found](#) ^[31])
 - Update TTree::SetDirectory to allow update the BranchRef when needed. This fixes the forum topic [Plugin Not Found](#) ^[31] ([Plugin Not Found](#) ^[31])
 - Avoid attempting to print the content of empty TClonesArray even if this 'content' are strings (see roottest/root/treeformula/scan/excmissingString.C) ([Plugin Not Found](#) ^[31])
 - Hist
 - Fix the problem with ternary operator: [#67398](#) ^[38]
 - TFormula: unary minus could cause a wrong GetExpFormula() ([#68905](#) ^[39], r34001).
 - Proof
 - In XrdProofdAdmin, import fix [#32808](#) ^[40]: fix bug preventing a correct check of the exported paths
 - In TProofServ, import fix [#32812](#) ^[41] and [#32814](#) ^[42]: fix bug affecting the behaviour of kBuildPackage for packages in the global directories
 - In TXProofMgr, import fix [#32815](#) ^[43]: disable TXSocket handling while sending / receiving files; this fixes occasional freeze in TXProofMgr::GetFile / TXProofMgr::PutFile due to a screw up of the synchronization in the TXSocket pipe
 - In TProofMgr, import fix [#32874](#) ^[44]: avoid contacting the DNS when initializing TProofMgr as base class of TProofMgrLite: it is not needed and it may introduce long startup delays
 - In TProof, import fix [#32833](#) ^[45]: fix a problem counting valid nodes in sequential or 'masteronly' mode, generating the fake error message "GoParallel: attaching to candidate!"
 - In TProofLite, import changes ([#32897](#) ^[46], [#32898](#) ^[47] and [#32900](#)) ^[48] to fix a problem with the unix sock path length affecting MacOS X
 - In XrdProofdManager, XrdProofdProofServMgr import fix [#32953](#) ^[49] to fix a problem with the unix sock path length affecting MacOS X
 - In XrdProofdProofServMgr import fix [#33003](#) ^[50] to fix a problem with open file descriptors potentially showing up in the case of very fast daemon restarts (and many users).
 - In TProofServ import fix [#33009](#) ^[51]: in Reset(), check that the directory make sense; fixes an issue with a fake error message in PROOF-Lite when issuing TProof::SetParallel().
 - In TProofPlayerLite import fix [#33015](#) ^[52]: properly initialize the merging progress counter; fixes problem with negative values for 'workers still sending' in PROOF-Lite .
 - In TProofLite import fixes [#33027](#) ^[53] and [#33035](#) ^[54]: fix possible segvs when processing a dataset where none of the files had been validated and/or when starting a query right after.

- In TProof import fix [#33153](#) ^[55]: fix an issue with the parsing of the option field when forcing the creation of a new session, e.g. TProof::Open("<master>/?N").
- In TProofServ import fix [#33418](#) ^[56]: make sure that information used internally in the option field on the master (about the aclic option) is not sent to workers while issuing the Process message.
- In TXProofMgr import fix [#33639](#) ^[57]: fix problem affecting TProofMgr::Find.
- Import fix [#33640](#) ^[58]: fix a few issues affecting the usage of tree friends in PROOF and a bug affecting the locality check for files in TDSet.
- In TProof::ClearData() import fix [#33641](#) ^[57]: fix problem observed when the dataset repository is empty
- In TProof import fix [#33648](#) ^[59]: fix an issue with the workers names in TSlaveInfo in PROOF-Lite .
- In TPacketizerAdaptive and TPacketizer, import part of fix [#33781](#) ^[60]: fix a subtle bug affecting the (possibly rare) case when not all entries are required and # entries does not correspond to an complete subset of files (e.g. # entries = 1001000 with files of 100000 entries each).
- Xrootd
 - Import fixes to build on MacOS X 10.4 ([#32679](#) ^[61], [#32680](#) ^[62], [#32683](#) ^[63], [#32707](#) ^[64])
 - Import fixes [#32800](#) ^[65]:
 - Tiny fix in XrdSecProtocolkrb5.cc (remove a redundant unlock)
 - Improvements in 'xrdgsiproxy':
 - Add support for -exists (-e) switch for the 'info' mode (as in 'grid-proxy-info') to test existence and validity of a proxy.
 - Add also support for a clock skew in testing validity (default 30 secs; can be changed with the switch -clockskew).
 - Import fixes [#33677](#) ^[66] fixing a fake authentication failure with proxies created by voms-proxy-init when the input certificates are PKCS12-formatted
- GUI
 - Fix double deletion in TGFileBrowser (r32684, [bug #64596](#) ^[67])
 - Fix crash in TBrowser when looking for an icon associated with a class for which TClass::GetClass(class_name) was returning 0 (r32516, [bug #64082](#) ^[68])
- RooStats
 - Fix a minor bug in HybridPlot::Draw ([bug #64854](#) ^[69])
- PyROOT
 - Fix [issue #70229](#) ^[70]

Changes in version v5-26-00b (Feb 9, 2010)

- Core
 - Editline: allow cooked terminal interaction after creation of TRint (r32170, [bug #62119](#) ^[71])
- I/O
 - TDCacheFile: fix regression which caused dcap://host:port/path to fail.
 - Added TXMLEngine::ParseString.
- Net
 - TGrid::Mkdir() and TAlien::Mkdir() return now an Int_t instead of a Bool_t. Patch is needed for the ALICE ODBC.
- CINT
 - Improve heap efficiency of function calls through Cintex. (r32081, r32088)
 - Work around warning "cast from pointer-to-function and pointer to object" in some Reflex dictionaries. (r32074, r32085, [bug #61758](#) ^[72])
- Proof
 - Import patch [#32237](#) ^[73] to fix a problem occurring when submergers cannot open the required sockets (output was not always sent to the master).
- Xrootd
 - New version (v20100205-0000) containing a crucial fix on the server side required by ALICE. This version also includes the new SSL module for authentication needed by Castor.
 - Import crucial fix [#32322](#) ^[74] on for the krb5 security module.
- TMVA
 - Method ReadStateFromStream() made public again: accommodate reading of weights from 'in memory' text-weightfiles.
 - Method ReadStateFromXMLString() added: accommodate reading of weights from 'in memory' xml-weightfiles.
 - MethodLikelihood: fix bug that prevented saving of method specific histograms.
 - Remove global pointer access from inline functions.
 - Import fix [#32302](#) ^[75] for the missing external symbol problem for PDF::IGetVal

Changes in version v5-26-00a (Jan 19, 2010)

- Core
 - Hide editline's symbols to prevent clashes with readline (r31990, [Forum post 41352](#) ^[76]).

- Fix in rootcint when using the -p option ([Plugin Not Found](#) ^[31]).
- CINT
 - Fix function invocations through Cintex in non-optimized builds (r31991).
 - For Cintex wrappers, respect NX bit also on MacOS X (r32009, [#61225](#) ^[77]).
- Hist
 - Fix a bug in TGraph::Eval when evaluating at the graph point values.
 - Fix a bug in TH3::Project3D when using on 2 3d histograms with same name (fix [#61464](#) ^[78])
- Tree
 - Protect TTree::OptimizeBaskets() in case of very high compression factors (> 100). TTree::Fill now calls TTree::OptimizeBaskets() with the fAutoFlush value instead of the total number of bytes written so far.
 - In the TTreeView, show the branches of a chain's underlying's tree's friend in addition to the branches of the chain and of the chain's friends.
- Graf
 - TLatex: revert <http://root.cern.ch/viewvc?view=rev&revision=29285> ^[79] this fix had side effects. Indexes on Greek characters did not work.
- Proof
 - Fix memory leaks in TProofServ::HandleProcess and TEventIterTree (fix [#31946](#) ^[80])
 - Fix double deletion in TProofServ::HandleSubMerger and memory leak in TEventIterUnit (fix [#32003](#) ^[81])
 - Fix a problem with real-time notification during dataset verification (fix [#32031](#) ^[82])
 - XrdProofd plugin (fixes [#31934](#) ^[83], [#31935](#) ^[84] and [#31937](#) ^[85]):
 - Fix an issue with return codes of sending methods preventing a proper detection of failures by masters and/or clients
 - Fix an issue with the garbage collection of inter-daemon connections
 - Reduce the locked phase during inter-daemon broadcasting
- Math
 - Fix a bug in the multinomial random generation (ROOT::Math::Random::Multinomial).
- PyROOT
 - Fix [#59945](#) ^[86] and [#61105](#) ^[87].
 - Properly handle the extra thread created in PyROOT to process events (r31983 and r31996, [Forum post 9640](#) ^[88] and [7748](#) ^[89]).

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Source URL: <http://root.cern.ch/drupal/content/root-version-v5-26-00-patch-release-notes>

Links:

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- [29] <https://savannah.cern.ch/bugs/index.php?63411>
- [30] <https://savannah.cern.ch/bugs/index.php?62965>
- [31] <http://root.cern.ch/drupal>
- [32] <http://savannah.cern.ch/bugs/?67484>

[33] <http://savannah.cern.ch/bugs/?66312>
[34] <https://savannah.cern.ch/bugs/index.php?53130>
[35] <https://savannah.cern.ch/bugs/index.php?63328>
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[64] <http://root.cern.ch/viewcvs?view=rev&revision=32707>
[65] <http://root.cern.ch/viewcvs?view=rev&revision=32800>
[66] <http://root.cern.ch/viewcvs?view=rev&revision=33677>
[67] <https://savannah.cern.ch/bugs/index.php?64596>
[68] <https://savannah.cern.ch/bugs/index.php?64082>
[69] <https://savannah.cern.ch/bugs/index.php?64854>
[70] <http://savannah.cern.ch/bugs/index.php?70229>
[71] <https://savannah.cern.ch/bugs/index.php?62119>
[72] <https://savannah.cern.ch/bugs/index.php?61758>
[73] <http://root.cern.ch/viewvc?view=rev&revision=32237>
[74] <http://root.cern.ch/drupal/../../../../../../../../viewvc?view=rev%26amp;revision=32322>
[75] <http://root.cern.ch/drupal/../../../../../../../../viewvc?view=rev%26amp;revision=32302>
[76] <http://root.cern.ch/phpBB2/viewtopic.php?p=41352>
[77] <https://savannah.cern.ch/bugs/?61225>
[78] <https://savannah.cern.ch/bugs/?61464>
[79] <http://root.cern.ch/viewvc?view=rev&revision=29285>
[80] <http://root.cern.ch/viewvc?view=rev&revision=31946>
[81] <http://root.cern.ch/viewvc?view=rev&revision=32003>
[82] <http://root.cern.ch/viewvc?view=rev&revision=32031>
[83] <http://root.cern.ch/viewvc?view=rev&revision=31934>
[84] <http://root.cern.ch/viewvc?view=rev&revision=31935>
[85] <http://root.cern.ch/viewvc?view=rev&revision=31937>
[86] <http://savannah.cern.ch/bugs/?59945>
[87] <https://savannah.cern.ch/bugs/?61105>
[88] <http://root.cern.ch/phpBB2/viewtopic.php?t=9640>
[89] <http://root.cern.ch/phpBB2/viewtopic.php?t=7748>