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# Production Version 5.24

[production release](#) <sup>[1]</sup>

## Availability

ROOT is available in binary and source form. The binaries are available for most supported platforms. The source is available as a tarball or from [Subversion](#) <sup>[2]</sup> and can easily be compiled on any [supported platform/compiler combination](#) <sup>[3]</sup>.

For what is new in this version see the [development notes](#) <sup>[4]</sup>.

## Source

- [ROOT 5.24/00 complete source tree](#) <sup>[5]</sup> for all systems (27.3 MB).  
After unpacking read the file [README/INSTALL](#) <sup>[6]</sup> and [Installing ROOT From Source](#) <sup>[6]</sup>.

## Documentation

- [ROOT 5.24/00 classes html documentation](#) <sup>[7]</sup> compressed tar file (372 MB).

## AFS

Users at CERN (or those having access to the CERN AFS cell) can also use ROOT directly from AFS. Versions for many different platforms and compilers are available at:

[/afs/cern.ch/sw/lcg/app/releases/ROOT/5.24.00/](#)

## Binaries

**Note:** Before downloading a binary version make sure your machine contains the right run-time environment. In most cases it is not possible to run a version compiled with, e.g., gcc 4.3 on a platform where only gcc 3.4 is installed. In such cases you'll have to install ROOT from source. See [the configurations used to build the binaries below](#) <sup>[8]</sup>.

To install, unzip and untar the file do:

```
$ gunzip root_v5.24.00.Linux.slc4.gcc3.4.tar.gz
$ tar xvf root_v5.24.00.Linux.slc4.gcc3.4.tar
```

This will create the directory `root`. Before getting started read the file [README/README](#) <sup>[9]</sup>. *Remember*, you can find the full documentation of the ROOT classes on this web site at the location [Classes and Members](#) <sup>[10]</sup>. The distribution also contains all tutorials and a set of test programs.

## Linux SLC5 <sup>[11]</sup>

- [Intel x86 Linux for Redhat RHEL 5 \(SLC5\) and gcc 4.3, version 5.24/00](#) <sup>[12]</sup> (53.3 MB).
- [Intel x86 Linux for Redhat RHEL 5 \(SLC5\) and gcc 3.4, version 5.24/00](#) <sup>[13]</sup> (54.2 MB).
- [AMD64 Linux for Redhat RHEL 5 \(SLC5\) and gcc 4.3, version 5.24/00](#) <sup>[14]</sup> (54.3 MB).
- [AMD64 Linux for Redhat RHEL 5 \(SLC5\) and gcc 3.4, version 5.24/00](#) <sup>[15]</sup> (55.3 MB).

## Linux SLC4 <sup>[16]</sup>

- [Intel x86 Linux for Redhat RHEL 4 \(SLC4\) and gcc 4.3, version 5.24/00](#) <sup>[17]</sup> (53.3 MB).
- [Intel x86 Linux for Redhat RHEL 4 \(SLC4\) and gcc 3.4, version 5.24/00](#) <sup>[18]</sup> (53.6 MB).
- [AMD64 Linux for Redhat RHEL 4 \(SLC4\) and gcc 4.3, version 5.24/00](#) <sup>[19]</sup> (54.4 MB).
- [AMD64 Linux for Redhat RHEL 4 \(SLC4\) and gcc 3.4, version 5.24/00](#) <sup>[20]</sup> (55.3 MB).

## Solaris

- [Sun SPARC Solaris 5.9 with CC5.5, version 5.24/00](#) <sup>[21]</sup> (62.5 MB).  
It cannot be used with Solaris 5.7 or 5.8 even using the same compiler version. You must recompile from source on these two systems as well as for Solaris on Intel.

## Mac OS X

- [Mac OS X 10.5 Intel and gcc 4.0.1, version 5.24/00](#) <sup>[22]</sup> (40.7 MB).
- [Mac OS X 10.4 PPC and gcc 4.0.1, version 5.24/00](#) <sup>[23]</sup> (50.9 MB).

## Windows

Windows Vista/XP/NT/2000 are supported. We offer two packaging types:

- **MSI**: a regular Windows installer package also setting up the required environment variables. With uninstall via "Control Panel" / "Add or Remove Programs". Simply download and start, or open directly. You can double-click ROOT to start it, ROOT files get registered with Windows.
- **tar**: the traditional variant. Unpack e.g. with [7zip](#) <sup>[24]</sup>. Start ROOT in a Microsoft Visual Studio Prompt (in Start / Programs / Microsoft Visual Studio / Tools). If you installed ROOT to C:\root then call C:\root\bin\thisroot.bat before using ROOT to set up required environment variables.

Important installation notes:

- Do not untar in a directory with a name containing blank characters.
- Take the release version if performance matters.
- If you want to debug your code you need the debug version of Windows (you cannot mix release / debug builds due to a Microsoft restriction).
- You need MS VC++ 7.1 for the VC++ 7.1 build; you need MS VC++  $\geq 8$  for the VC++ 9 build. There is a [no-cost version](#) <sup>[25]</sup>, see also [Bertrand's instructions](#) <sup>[26]</sup>.
- If you don't know which one to take: the **bold** versions are recommended.

	Release	Debug
<b>VC++ 7.1</b>	<b>MSI</b> <sup>[27]</sup> (51.9 MB) <b>tar</b> <sup>[28]</sup> (51.8 MB)	<b>MSI</b> <sup>[29]</sup> (97.8 MB) <b>tar</b> <sup>[30]</sup> (98.1 MB)
<b>VC++ 9</b>	<b>MSI</b> <sup>[31]</sup> (53.2 MB) <b>tar</b> <sup>[32]</sup> (53.1 MB)	<b>MSI</b> <sup>[33]</sup> (127.6 MB) <b>tar</b> <sup>[34]</sup> (127.9 MB)
<b>Cygwin GCC 3.4</b> <b>(not recommended)</b>	<b>tar</b> <sup>[35]</sup> (54.6 MB)	

Note that the performance of cygwin/gcc binaries is currently very poor; we only provide this build as an unsupported toy. **We strongly recommend to use the version above compiled with VC++.** The ROOT team will not answer any messages related to problems with the win32gcc version. For more information see these [web](#) <sup>[36]</sup> and [ftp](#) <sup>[37]</sup> sites.

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Source URL: <http://root.cern.ch/drupal/content/production-version-524>

### Links:

- [1] <http://root.cern.ch/drupal/category/package-context/production-release>
- [2] <http://root.cern.ch/drupal/subversion-howto>
- [3] <http://root.cern.ch/drupal/supported-architectures>
- [4] <http://root.cern.ch/root/html524/examples/V5.24.txt.html>
- [5] [ftp://root.cern.ch/root/root\\_v5.24.00.source.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.source.tar.gz)
- [6] <http://root.cern.ch/drupal/installing-root-source>
- [7] <ftp://root.cern.ch/root/html524.tar.gz>
- [8] <http://root.cern.ch/root/myconfig/Version524.config.html>
- [9] <http://root.cern.ch/lxr/data/root/README/README>
- [10] <http://root.cern.ch/root/html/ClassIndex.html>
- [11] <http://linux.web.cern.ch/linux/scientific5/>
- [12] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc5-gcc4.3.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc5-gcc4.3.tar.gz)
- [13] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc5-gcc3.4.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc5-gcc3.4.tar.gz)

[14] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc5\\_amd64-gcc4.3.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc5_amd64-gcc4.3.tar.gz)  
[15] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc5\\_amd64-gcc3.4.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc5_amd64-gcc3.4.tar.gz)  
[16] <http://linux.web.cern.ch/linux/scientific4/>  
[17] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc4-gcc4.3.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc4-gcc4.3.tar.gz)  
[18] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc4-gcc3.4.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc4-gcc3.4.tar.gz)  
[19] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc4\\_amd64-gcc4.3.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc4_amd64-gcc4.3.tar.gz)  
[20] [ftp://root.cern.ch/root/root\\_v5.24.00.Linux-slc4\\_amd64-gcc3.4.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.Linux-slc4_amd64-gcc3.4.tar.gz)  
[21] [ftp://root.cern.ch/root/root\\_v5.24.00.solarisCC5.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.solarisCC5.tar.gz)  
[22] [ftp://root.cern.ch/root/root\\_v5.24.00.macosx105-i386-gcc-4.0.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.macosx105-i386-gcc-4.0.tar.gz)  
[23] [ftp://root.cern.ch/root/root\\_v5.24.00.macosx-powerpc-gcc-4.0.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.macosx-powerpc-gcc-4.0.tar.gz)  
[24] <http://www.7-zip.org>  
[25] <http://www.microsoft.com/express/vc/>  
[26] <http://root.cern.ch/root/Procedure/Procedure%20to%20install%20the%20free%20Microsoft%20Visual%20C.htm>  
[27] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.msi](ftp://root.cern.ch/root/root_v5.24.00.win32.msi)  
[28] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.win32.tar.gz)  
[29] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.debug.msi](ftp://root.cern.ch/root/root_v5.24.00.win32.debug.msi)  
[30] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.debug.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.win32.debug.tar.gz)  
[31] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.vc90.msi](ftp://root.cern.ch/root/root_v5.24.00.win32.vc90.msi)  
[32] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.vc90.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.win32.vc90.tar.gz)  
[33] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.vc90.debug.msi](ftp://root.cern.ch/root/root_v5.24.00.win32.vc90.debug.msi)  
[34] [ftp://root.cern.ch/root/root\\_v5.24.00.win32.vc90.debug.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.win32.vc90.debug.tar.gz)  
[35] [ftp://root.cern.ch/root/root\\_v5.24.00.win32gcc-gcc-3.4.tar.gz](ftp://root.cern.ch/root/root_v5.24.00.win32gcc-gcc-3.4.tar.gz)  
[36] <http://root.axel-naumann.de/>  
[37] <http://www.clued0.fnal.gov/~axel/files/>