

# GlastRelease Updates

Introduction  
Below is a table of ALL GlastRelease tags.

If the tag is one along a branch of the code, it is color-coded as follows:

17-35-24-lp40 Pipeline2 Level1 Production version Consider this a RELEASE  
branch name is GlastRelease-17-35-24-br01 (see below)

Pass 8 GlastRelease-20-08-11

GlastRelease-17-35-24-br01 Branch created to support move to RHEL5 and Gaudi upgrade GlastRelease tags utilize -gr## suffix

GlastRelease-17-35-24-br02 Branch created to support Leon's work on truncation GlastRelease tags utilize -tr## suffix

GlastRelease-17-35-24-br03 Branch created to support Level One processing modifications GlastRelease tags utilize -lp## suffix

GlastRelease-17-35-24-br04 Branch created to support Elliott's group work on ghosts GlastRelease tags utilize -gh## suffix



GlastRelease-17-35-24-br05 Branch created to support reprocessing GlastRelease tags utilize -rp## suffix

GlastRelease-17-35-24-br06 Branch for Level One Processing after the truncation stuff was merged into br03

GlastRelease-17-35-24-br07 Branch created to support updates to CRflux and celestialSources from Markus and Keith

If you would like to request a new tag be included in GlastRelease, please use the [GR Update Request page](#).


## All GlastRelease Tags


Version	Date	L1Proc	release. notes	JIRAs Addressed	Systest Reports	Full_Diff	Summary
20-10-02	9-April-2015			<div> LPA TE- 187 - Jira proje ct does n't exist or you don't have per miss ion to view it.</div>			<div><p>Fixed issue with astro (astro-03-16-01) package (IGRF not working properly see</p><div> <a href="#">STGEN-141</a> - Jira project doesn't exist or you don't have permission to view it.</div><p>), updated xml for DQM vars (evtUtils-00-03-01), a few packages update to be in sync with ST. This is the candidate GR for Pass 8 L1Proc switch.</p></div>


20-10-01	11-Feb-2014			<div><p>LPA TE- 182 - Jira proje ct does n't exist or you don't have per miss ion to view it.</p></div>		New default jo for data rep and mc calib in Glearn (08-00-09), new DQMEventClass and DQMEventType for FastMon (evtUtils-00-03-00 and AnalysisNtuple-02-73-01), a few updated to be in sync with ST. Using IGRF-12 coefficients in astro package..
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20-10-00	12-Dec-2014			<div><p>LPA TE- 180 - Jira proje ct does n't exist or you don't have per miss ion to view it.</p></div>		First working release compiled on 64bit machines. Fix for crashes in OBF (EbfWriter) and NewCalFullProfileTool (CalRecon). See <a href="#">confluence</a> for details on validation.
20-09-10	1-Oct-2014			no JIRA		Only GlastRelease-scons/containerSettings changed: moving to python 2.7.6?

20-09-09	10-April-2014			<div><p>LPA TE- 175 - Jira proje ct does n't exist or you don't have per miss ion to view it.</p></div>		A new worksheet for Pass8 classification with aliases for ACD variables truncation (now the GR points to extFiles/v0r16 ). A few bug fixes on ACD de-ghosting.
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20-09-08	3-March-2014			<div> LPA TE- 174 - Jira proje ct does n't exist or you don't have per miss ion to view it.</div>			new ACD tags to handle coherent noise and truncate low signals in ACD
20-09-07	20-Feb-2014						celestialSources/EarthPhenom update from tag EarthPhenom-00-02-06 to EarthPhenom-00-02-07

20-09-06	19-Dec-2013			<div><p>LPA TE- 171 - Jira proje ct does n't exist or you don't have per miss ion to view it.</p></div>		Fixes some issue in default JO (add 2 tkr alignment steps, digitization member in Ovr for truncation, MC calibration settings). Fixes default ACD zero suppression vales. Add ToT quadratic correction in digi.
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20-09-05	15-Nov-2013			 <p>LPA TE- 167 - Jira proje ct does n't exist or you don't have per miss ion to view it.</p>		Intermediate release to test some changes: new ACD geometry, TKR JO params to get 20-09-02 recon, reorganization of default MC JO and MC calibration settings.
20-09-04	03-Sep-2013			<a href="#">LPATE-158</a>	<a href="#">20-09-03</a>	Remove the dependence on the cosmic ray tracking (the CR track deghosting is not performed by default)
20-09-03	01-Sep-2013			no JIRA		Enable the use of TEM diagnostics
20-09-02	30-Jul-2013			no JIRA		
20-09-01	26-Jul-2013			<a href="#">LPATE-154</a>		protection for starting coordinates of the track laying outside the Geant4 World Volume.
20-09-00	02-Jul-2013			<a href="#">LPATE-153</a>		decrease the number of messages output to the log file from AcdTkrIntersectionToolV2 and set defaults to LZMA compression and "compressed" TkrTree output.
20-08-18	28-Jun-2013			<a href="#">LPATE-147</a>		This version aims to include the modifications LSREA has made to get merit and remerit to match, bug fixes to TkrRecon to insure repeatability of recon against rerunning, bug fix in Event, Philippe Bruel's mods to CalRecon (speed-up the profile fit), conversion of direction cosine variables in the ntuple from float to double and a few other smaller items.
20-08-17	13-Jun-2013			<a href="#">LPATE-146</a>		1) Include the "final" Pass 8 Analysis before the start of reprocessing 2) Include fixes for memory leaks 3) Other items that do not impact reconstruction
20-08-16	06-Jun-2013			<a href="#">LPATE-145</a>		Eric Charles has tagged AcdRecon-05-07-01 to fix sort error which appears to afflict only simulation runs. Heather, running valgrind, has discovered a smallish memory leak involving the key for the CalCluster map.
20-08-15	04-Jun-2013			<a href="#">LPATE-144</a>		To address the long cpu time events have included the ability to "merge" TkrClusters when building TkrVecPoints. To reduce the size of the ACD contribution To fix the sorting issue in AcdTkrHitPoca and AcdTkrGapPoca
20-08-14	25-May-2013					<a href="#">Package Differences from 20-08-12</a> Updates to recon ROOT output, including AcdReconV2 and ditching old AcdRecon output
<del>20-08-13</del>						
20-08-12	10 Apr 2013			<a href="#">LPATE-134</a>		<a href="#">Package Differences from 20-08-11</a> Includes fix to SConsFiles to all.sln handling
20-08-11	7 Mar 2013			<a href="#">LPATE-129</a>		<a href="#">Package Differences from 20-08-10</a>
20-08-10	27 Feb 2013			<a href="#">LPATE-126</a>		<a href="#">Package differences from 20-08-09</a>

20-08-09	22 Feb 2013			LPATE-122		Package differences from 20-08-08
20-08-08	14 Feb 2013			LPATE-118		Package differences from 20-08-07
20-08-07	10 Feb 2013			LPATE-114		Package Differences from 20-08-06
20-08-06	31 Jan 2013			LPATE-109		Package Differences from 20-08-05
20-08-05	24 Jan 2013					
20-08-04						
20-08-03						
20-08-02						
20-08-00						
						Ingest Joanne's updates to handle supersede on Windows
20-05-00	5 Sep 2012				pending due to NFS outage	Introduce change on windows to avoid installed headers which touched just about every package: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.39&amp;r2=1.36">http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.39&amp;r2=1.36</a>
20-04-02	16 Aug 2012			<a href="http://glast-ground.slac.stanford.edu/SystemTests/?releaseVersionId=13821">http://glast-ground.slac.stanford.edu/SystemTests/?releaseVersionId=13821</a>		Full list of changed packages: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.36&amp;r2=1.32">http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.36&amp;r2=1.32</a> <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.36&amp;r2=1.32">http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastRelease-scons/packageList.txt?r1=1.36&amp;r2=1.32</a> <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/AnalysisNtuple/doc/release.notes?r1=1.336&amp;r2=1.335">http://www-glast.stanford.edu/cgi-bin/viewcvs/AnalysisNtuple/doc/release.notes?r1=1.336&amp;r2=1.335</a> Event: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/Event/doc/release.notes?r1=1.178&amp;r2=1.177">http://www-glast.stanford.edu/cgi-bin/viewcvs/Event/doc/release.notes?r1=1.178&amp;r2=1.177</a> CalRecon: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/CalRecon/doc/release.notes?r1=1.135&amp;r2=1.134">http://www-glast.stanford.edu/cgi-bin/viewcvs/CalRecon/doc/release.notes?r1=1.135&amp;r2=1.134</a> GlastClassify: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastClassify/doc/release.notes?r1=1.114&amp;r2=1.112">http://www-glast.stanford.edu/cgi-bin/viewcvs/GlastClassify/doc/release.notes?r1=1.114&amp;r2=1.112</a> TkrRecon: <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/TkrRecon/doc/release.notes?r1=1.226&amp;r2=1.225">http://www-glast.stanford.edu/cgi-bin/viewcvs/TkrRecon/doc/release.notes?r1=1.226&amp;r2=1.225</a>
20-04-01	25 Jul 2012			<a href="http://glast-ground.slac.stanford.edu/SystemTests/?releaseVersionId=13801">http://glast-ground.slac.stanford.edu/SystemTests/?releaseVersionId=13801</a>		Patches to Overlay <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/Overlay/doc/release.notes?r1=1.59&amp;r2=1.57">http://www-glast.stanford.edu/cgi-bin/viewcvs/Overlay/doc/release.notes?r1=1.59&amp;r2=1.57</a> <a href="http://www-glast.stanford.edu/cgi-bin/viewcvs/OverlayEvent/doc/release.notes?r1=1.14&amp;r2=1.12">http://www-glast.stanford.edu/cgi-bin/viewcvs/OverlayEvent/doc/release.notes?r1=1.14&amp;r2=1.12</a>
20-04-00	4 Jul 2012					
20-03-04	8 Jun 2012					Validation tag between CMT and SCons RHEL4 builds and hopefully RHEL5
v20r3p1	31 May 2012					Include updated Gleam basicOptions to turn on Auditor
v20r3p0	30 May 2012					Fix to Auditors in AnalysisNtuple RHEL4 builds are incomplete due to trouble in RM
v20r2p0	27 May 2012					Fix to Overlay TDS handling for new Gaudi, CalUtil, AnalysisNtuple RHEL4 builds are incomplete due to trouble in RM
v20r1p0	19 May 2012					TkrRecon, AnalysisNtuple, GlastClassify
v20r0p1	16 May 2012					Attempts to fix failures on Windows Overlay, userAlg, Interleave, OnboardFilter, DetDisplay
v20r0p0	12 May 2012					Initial tag with new Gaudi Wouldn't suggest using it
<del>v19r4p1gr14</del>						
19-04-01-gr15						Picking up recent additions to CalRecon after Pisa meeting
v19r4p1gr13						Pisa GR
v19r4p1gr07	07 Feb 2012					Hopefully final Pass8 Pisa tag
v19r4p1						
v18r2p1	02 Feb 2010					Move to ROOT v5.20.00-gl6 AcidRecon patch for win version of unit test
v18r1p1	30 Jan 2010					Bug fix to Overlay affecting energy in McIntegratingHits
v18r1p0	28 Jan 2010					Pass 8 development updates for AnalysisNtuple, CalRecon, Event, HepRepSvc, RootConvert, RooLo and reconRootData. Laying groundwork for job options reorg. for SCons: facilities, AcidUtil jo update to default.txt in Gleam so that test programs can be run without a network



v18r0p0	17 Dec 2010					<p>Base release for Pass8 development Includes Acd updates from Eric C. + Heather, TkrUtil updates from Leon, CalRecon from Tracy, a couple minor enhancements from FSSC folk for gcc4, and fixes to test programs for Interleave and FluxSvc And put in main branch TkrRecon - AcdDigi v3r10p1, AcdUtil v3r1p1, AcdRecon v4r4p1 (Eric/Heather) - Event v14r1p1 (Eric/Heather) - RootConvert v1r44p1, Rootlo v24r6p1, reconRootData v9r21p1 (Eric/Heather) - AnalysisNtuple v2r56p2, HepRepSvc v0r32p2, TkrUtil v3r19p0 (Leon) - CalRecon v6r9p1 (Tracy) - TkrRecon v10r16p9 - Interleave v1r6p6, FluxSvc v6r55p7 (test program fixes) - facilities v2r18p14 - flux v8r40p4  </p>
v17r38p1	14 Dec 2009					<p>Catch up, picking up all of Joanne's SCons-specific tweaks that should have no effect. Only files impacted were: SConscript, &lt;pkgName&gt;Lib.py, .cvsignore requirements(updating tag strings) and release.notes - AcdRecon v4r3p4, AcdUtil v3r0p1, AdfEvent v0r5p2, AnalysisNtuple v2r55p11 - AncillaryDataEvent v1r4p2, AncillaryDataUtil v1r0p4, CalRecon v6r8p2 - CalUtil v3r14p3, CalXtalResponse v0r23p2, CalibData v0r26p3 - ConfigSvc v0r2p10, DetDisplay v3r3p1, EbFWriter v1r8p1 - EventIntegrity v0r8p3, FluxSvc v6r55p6, G4Propagator v2r5p3 - GCRCalib v1r6p4, GlstClassify v7r5p1, GlstSvc v9r28p2 - GuiSvc v3r8p2, HepRepCorba v3r1p5, HepRepXml v0r8p6 - Interleave v1r6p4, LdfEvent v4r10p1, Overlay v1r5p7 - RootDisplay v0r3p1, TkrDigi v2r10p5, Trigger v7r1p2 - calibGenACD v4r1p4, calibGenCAL v5r9p2, calibRootData v1r7p9 - classifier v1r6p2, detModel v2r21p1, gcrSelectRootData v2r2p4 - geometry v3r2p1, gr_app v0r2p1, gui v3r7p3, merit v6r24p4 - ntupleWriterSvc v5r4p2, overlayRootData v0r2p4, rootTestData v4r2p1 - xmlGeoDbs v1r47p6 - GlstMS v0r3p2 includes addition of EOL to fix compiler complaints - IExternal v4r19p1 tweak from Joanne to link in all necessary libs - facilities v2r18p3 updates to commonUtilities.cxx - calibTkrUtil v2r9p3 moved GeoConstants.h to standard include dir - calibGenTKR v4r8p1  </p>

v17r37p0	10 Nov 2009					<p>Catch up - picking up many warning fixes and Leon's first round of updates for the mass model Includes Pass 7.2 tags as of Nov 10, 2009 IExternal/obf v1r1p3gr02 rebuild for RHEL4-32 RootcintPolicy v7r0p2 GlstPolicy tip v2r15p4 astro v3r8p8 facilities v2r18p10 xmlUtil v3r4p2 idents v2r20p2 Event v13r5p1 GlstSvc v9r28p1 LdfConverter v4r4p1 use EvtMax==0 to denote reading in a complete input file commonRootData v2r15p6, mcRootData v2r22p1, digiRootData v1r14p0, reconRootData v9r20p1 rootUtil v1r4p1, RootConvert v1r43p0, Rootlo v24r4p1 Trigger v7r1p1 f2c v3r2 celestialSources v1r3p3 - using same version as ST genericSources v1r14p0, Pulsar v2r5p3, SpectObj v1r3p7, GRB v4r4p4 GRBobs v3r3p3, GRBtemplate v1r3p2, eblAtten v0r7p2, microQuasar v1r4p3 flux v8r40p3, FluxSvc v6r55p5 CalXtalResponse v0r23p1, CalDigi v3r7p1, CalRecon v6r8p1 GCRCalib v1r6p3 TkrDigi v2r10p4, TkrUtil v3r18p8, TkrRecon v10r16p8gr02 GlstMS v0r3p1 G4Generator v5r25p1, G4HadronSim v1r6p0 ntupleWriterSvc v5r4p1 OnboardFilter v4r14p2, OnboardFilterTds v0r10p1 calibUtil v1r13p1 CalibData v0r26p2, CalibSvc v0r40p2 calibTkrUtil v2r9p1 G4Propagator v2r5p2 IsfData v4r3p1, ldfReader v7r4p3 HepRepSvc v0r31p5, HepRepCorba v3r1p4, HepRepXml v0r8p5 xmlBase v5r5p5 rdBModel v2r14p2 GlstClassify v7r5p0 detCheck v1r7p1 SwigPolicy v0r5p1 - same version in ST mootCore v1r24p4, MootSvc v1r1p7 OverlayEvent v0r2p2, Overlay v1r5p6, overlayRootData v0r2p3 Gleam v7r4p4, userAlg v6r6p4 AcdDigi v3r9p0 and AcdUtil v3r0p0 new AcdFailureSvc  </p>
v17r36p0	13 Oct 2009					<p>Catching up to fixes for data processing: enums v3r0p1 fix up TEMBUG constant setting ldfReader v7r4p2 LdfConverter v4r3p4gr1 CalRecon v6r8p0 Does not include updates for Pass 7.2!!</p>
17-35-24-lp60	7 Oct 2013					
<del>17-35-24-lp60</del>	4 Oct 2013					

17-35-24-lp58	4 Oct 2013				Patch from Tracy for G4Propagator in response to event differences between lp57 and 17-35-24-gr17 (P202 reprocessing version)
17-35-24-lp57					Candidate L1 Version
17-35-24-rp07	17 Apr 2012				Pick up Root v5.26.00a-gl6 build with patched xrootd client to prevent 5 minute timeouts after xroot server reboots.
17-35-24-r04					P202 version
17-35-24-rp02	27 Mar 2012				Updated Rootlo to improve logging for ROOT errors including empty TTrees and failures to open files
17-35-24-gh01	26 Mar 2012				Grabbed updated TkrUtil from Leon to create first Ghost GR for Elliott's group
17-35-24-tr07					Hopefully last truncation tag
v17r34p24tr01	07 Feb 2012				Truncation Branch for Pass 7 Currently has trouble on RHEL4
17-35-24-lp43	10 Apr 2013				Hopefully final tag needed to fix the Overlay issue noted in lp41 <a href="#">Packages differences compared to 17-35-24-lp40</a>
17-35-24-lp42	09 Apr 2013				Missed tagged do not use
17-35-24-lp41					Fixing up Overlays which are not functioning in this L1 branch since the move to the new Gaudi However this build did not pick up the required update to AnaTup
17-35-24-lp40	15 Feb 2013				Current L1 which includes OBF 03-01-03
17-35-24-lp39	17 Oct 2012				fitsGen-06-06-01 and astro-03-13-03
17-35-24-lp31	14 Jun 2012				Identical to lp30 except for patch to Gleam's readdigi_runrecon.txt JO file suggested by Tom G. This tag will be used for system test validation where the current L1proc GR lp28 is the baseline
17-35-24-lp30					Initial merge of truncation updates from Truncation Branch
17-35-24-lp28					fixed typo from lp27, which patched OnboardFilter
17-35-24-lp27					patch to OnboardFilter
17-35-24-lp23	18 May 2012				move to OBF 3-0-0-gl01
17-35-24-lp22	April 2012				Merge in Rootlo updates from reprocessing branch (-rp##)
17-35-24-lp20	March 2012				Modification to EventIntegrity to check all error flags
17-35-24-gr31	8 May 2012				back to obf B3-0-0-gl1 and astro-03-11-17
17-35-24-gr17	Jan 2012				Same as gr15, with modified version of fitsGen
17-35-24-gr15	Jan 2012				First version of L1proc to use SCons builds
v17r35p23	12 Jul 2011				Initial version of P7 branch used by L1 after moving from the v15r47p12 branch
v17r35p5	09 Feb 2010				Updated GlastClassify v7r5p0gr02 with new xmit file 17.10 on Pass7 Confluence page
v17r35p4					First attempt to grab GlastClassify patch for xml file
v17r35p3					Overlay-01-06-00 to fix CAL Overlay issue
v17r35p2					Move to rebuilt OBF for RHEL4-32 Updated Rootlo allows specific branches to be turned off when reading astro v3r8p8 Fixed bug in the calculation of Lambda, fix to EarthCoordinate v3r8p7 29-jul-09 THB Fix to EarthCoordinate, bug found by Johan Bregeon, Fix JIRA OBS-14, Increase tolerance for pointing interpolation warning message to 65 s.
v17r35p1gr02	14 Feb 2010				GlastClassify v7r5p0gr03 fix to XML file and apply.exe from Tracy
v17r35p1	17 Oct 2009				GlastClassify v7r5p0 Pass 7.2 prep
v17r35p0	6 Oct 2009				Prep for Pass 7.2 AnalysisNtuple v2r55p9 GlastClassify v7r4p0
v17r34p0	20 Aug 2009				External testing new ROOT v5.20.00-gl5 and xerces 2.8.0

v17r33p1	3 Aug 2009				GlastClassify v7r3p1 updated version of xml file
v17r33p0	30 Jul 2009				GlastPolicy v6r16p1 upgrade for Doxygen GlastClassify v7r3p0 Pass7 update IExternal v4r19p0 ROOT v5.20.00-gl5 and xerces 2.8.0-gl1
v17r32					Uses new ROOT v5.20.00-gl4 which fixes TTree::CloneTree bug (head of ROOT's v5.20.00 branch)
v17r31p2					Next test tag for Eric Charles' AcdRecon updates NOT A RELEASE
v17r31p1	28 May 2009				Test tag for Eric Charles' AcdRecon updates - step one NOT A RELEASE
v17r31	24 May 2009				GlastClassify v7r2p5 v16.4
v17r30	22 May 2009				GlastClassify v7r2p4 new XML file from Carmelo
v17r29	22 May 2009				ntupleWriterSvc v5r4 and GlastClassify v7r2p3 that now allows a TTree ptr to be passed into RootTupleSvc::getItem to force the tree used to obtain branch pointers
v17r28	22 May 2009				GlastClassify v7r2p2
v17r27	21 May 2009				AnalysisNtuple v2r55p3 from Leon Gleam patch to JO to make FhSetMeritAlg part of the default setup
v17r26	19 May 2009				ntupleWriterSvc v5r3p1 patch to fix running in default case without input ntuples
v17r25	18 May 2009				ntupleWriterSvc v5r3 checks the output tree within RootTupleSvc::getItem if the input tree has the requested branch as disabled
v17r24	14 May 2009				ntupleWriterSvc v5r2p1 which throws an exception when a client calls RootTupleSvc::getItem and requests a disabled branch
v17r23	14 May 2009				Move to ROOT v5.20.00-gl3 which includes update to xrootd Patch tag to IExternal/Geant4 to force the installer to recognize new G4 version
v17r22	13 May 2009				GlastClassify v7r2p1 new bit methods
v17r21	12 May 2009				AnalysisNtuple v2r55p2 fix up FT1EventClass from Leon
v17r20	09 May 2009				IExternal v4r14, back to ROOT v5.20.00-gl1 until ST is ready to move GlastClassify v7r1p1 Rootlo v24r4 fixes for event display
v17r19	08 May 2009				-- IExternal v4r15, move to ROOT v5.20.00-gl2 -- facilities p7 which includes fix for TIMING_DIR env var -- ntupleWriterSvc addition of IncludeBranchList and ExcludeBranchList -- Grab Hiro's updated calibTkrUtil v2r9 and calibGenTKR v4r8 -- AnalysisNtuple v2r55 adds vars, removes others, and handles copying Obf vars to Fsw for simulations -- TkrRecon v10r16p7 from Leon to clean up error reporting, no change to basic TkrRecon code itself -- GlastClassify v7r1p0
v17r18	26 Apr 2009				Move to G4 8.0.p01-gl4 which is a rebuild of G4 to set the flags: G4_NO_VERBOSE and G4_NO_STORE_TRAJECTORY
v17r17	1 Apr 2009		GRINF-51 and TKR-29		EventIntegrity v0r8p2 JIRA GRINF-51 TkrUtil v3r18p2 JIRA TKR-29 HepRepSvc v0r31p2 1) color CAL Edep boxes yellow for "saturated" xtals 2) New HepReplInitSvc param: MonteCarloFiller_useMcInfo (default is true). This should help with really big MC events G4HadronSim to use G4Runtime._PATH rather than DIR so the tables will be found
v17r16	27 Mar 2009				Update to Rootlo to avoid potential segmentation fault when writing merit header, when running MC non-overlay jobs writing only merit files
v17r15	25 Mar 2009				Rootlo and Overlay patches from Tracy
v17r14	23 Mar 2009				Rootlo v24r1p1 patch to check existence of meritHeader before using LdfEvent v4r10 and EventIntegrity v0r8 check TEMbug and phase error AnalysisNtuple v2r54p7 fixes Philippe's issue with McTHPrimInteracted Overlay v1r5p3 properly registers thePtOverlayCnv service so we will actually output our PtOverlay objects
v17r13	20 Mar 2009				Acddigi v3r8 from Tracy to better handle purely overlay hits

v17r12	19 Mar 2009				Rootlo v24r1 and ntupleWriterSvc v5r0p1 introduces merit header Overlay v1r5p2 AnalysisNtuple v2r54p5
v17r11	19 Mar 200				Overlay v1r5p1 transfers the ACD status bits into the McPositionHit for more processing OverlayEvent v0r2p1 Bit definitions in AcdOverlay need small repair - not an issue for any overlay files produced AnalysisNtuple v2r54p4 add new OverlayValsTool, enhance output of McTrkValsTool. Lots and lots and lots of new vars
v17r10	18 Mar 2009				Overlay v1r5p0, overlayRootData v0r2p2, OverlayEvent v0r2p0 include the AcdHit status bits in the AcdOverlay object
v17r9	17 Mar 2009				Overlay v1r4p2 and overlayRootData v0r2p1 patches for class versions This is why v17r8 was deleted
<del>v17r8</del>	17 Mar 2009			GRINF-52	Modifications to detect TEM bug ldfReader v7r3, LdfEvent v4r9, enums v3r0, digiRootData v11r13, modify ldf2digi JO in Gleam v7r4p1 astro v3r8p1 fix test program for SAA polygon AnalysisNtuple v2r54p3 fix ToT logic from Leon: It caused the average tot to be lower for tracks with ToT255 clusters on them, and the truncated ToT to be negative very occasionally and from Michael Kuss: implemented Carmelo's "unbiased energy" method needed for pass7 and also from Leon: AcdValsTool - condition energy and tile counts on "accept" bit, so that below-threshold tiles will not be included for PT (non-zero-suppressed) events see JIRA GRINF-52 Overlay updates from Tracy: Overlay v1r4p1, OverlayEvent v0r1p0, overlayRootData v0r2p0
v17r7	02 Mar 2009				Overlay v1r3p0 reuses TFiles rather than continually opening and closing them Rootlo v24r0 restricts rebuilding indices
v17r6	26 Feb 2009				reverts to GlstClassify v6r5p2
<del>v17r5</del>	26 Feb 2009				Patch to GlstClassify v7r0p1
v17r4	20 Feb 2009				move to astro v3r8
v17r3	18 Feb 2009				picked up Leon's new AnaTup v2r54p1 and astro v3r7p1 Cleanup and move lambda radians->degrees to astro/EarthCoordinate Remove extraneous public methods from EarthCoordinate Fix EarthCoordinates to separate geometric from magnetic calculations This will speed up gtobssim, since it doesn't use the magnetic stuff Convert lambda from radians to degrees here Change "large number" -9.999e102 to -9.999e37, so it works on Windows Define R2D = 180./M_PI in anonymous namespace patched HepRepSvc v0r31p1 fixes display of status words in merit EbfWriter v1r8p0 from Tracy takes LdfEvent::Gem.h TDS object and transfers over to the ebf data GlstClassify v7r0p0
v17r2p1	15 Feb 2009				Identical to v17r2p1, with patch for path for update G4 external that will allow the installer to find it.
<del>v17r2</del>	12 Feb 2009				Updated G4 with rebuild on rhel4 in optimized mode Updates from Leon for AnaTup v2r54, astro v3r6p1, Gleam v7r3p2 Change to merit ntuple: adding GlGem[Elapsed/Live]Time, PtLambda signing of PtMagLat and PtSCzenith
v17r1	10 Feb 2009				Merge in Overlay branch
					For earlier versions of GR please refer to the page: <a href="#">GlastRelease Tags older than v17</a>