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# Releases based on LHCb v29r1 (and Gaudi v21r7p1, LCG\_58a)

This page documents releases based on LHCb v29r1. **Do not edit**, the content of these releases is frozen.

## LHCb v29r1 (Released on 17th February 2009)

Based on LHCb v29r0, with the following new tags

Package	User tag	Suggested official tag	Comment
Associators/MCAssociators	head	v1r0	New package containing MCAssociation classes to be shared between DaVinci and Brunel
Calo/CaloDAQ	odescham_20100130	v4r18	fix pb with CaloL0DataProvider BeginEvent
DAQ/DAQUtils	odescham_20100128	v1r1	OdinTypesFilter : protection against missing ODIN bank
Det/DDDB		v1r28	Update default tags, add 2010 DataType
Det/DetDescChecks		v5r2	
Det/DetCond	r5921	v12r10	Add functionality to use latest tags
Det/Magnet	cattanem_20100208	v5r7	Fix for access to UpdateManagerSvc when not using CondDB
Det/MuonDet	asatta_20100209	v9r1	add methods
Det/OTDet	wouter_20100202	v8r4	Added interface to straw status flags
Det/RichDet	papanest_20100122	v13r4	Proper handling of the magnetic field
	papanest_20100205		Changed some output level from info to debug
Det/STDet	mneedham_20100102	v4r17	Protection in findTopLevelElement
Det/VeloDet	krinnert_20100207	v13r9	new residual method in DeVeloSensor needed in sensor alignment and improved documentation
	krinnert_20100208		bug fix in new intersection method
Event/L0Event	odescham_20100213	v18r1	update LODUBase with hardware limitation number + adapt all LODU xml's
Event/LumiEvent	panmanj_20100129	v2r5	add LumiMethods class and counter in LumiCounters
Event/RecEvent	asatta_20100209	v2r26	add MuonCluster class
GaudiConf		v13r4	fix bug 62625
Kernel/LHCbAlgs	graven_20100205	v2r32p1	If DeterministicPrescaler accepts all events, do not say so using Info()
	gcorti_20100212	v2r33	Put LbAppInit factory back
Kernel/LHCbMath	vanya_20100208	v3r16	Fis for Win32 platform
	vanya_20100210		add missing file
L0/ProcessorKernel	jucogan_20100204	v6r0	Propagate unit properties to its daughter
L0/L0MuonKernel	jucogan_20100204	v9r0	Allow change of parameters during execution
Muon/MuonInterfaces	asatta_20100209	v1r0	New package
Phys/LoKiGen	vanya_20100210	v8r8	Add new symbols: $\mathbf{g\mathbf{x}}$ & $\mathbf{g\mathbf{x}0}$ for evaluation

			of rapidity $y = \frac{1}{2} \log \frac{E - p_z}{E + p_z}$ and $y_0 = \frac{1}{2} \log \frac{E - p}{E + p}$
Phys/LoKiHlt	vanya_20100212	v2r6	Add new symbol <b>ODIN_PRESCALE</b> : functor implementation of DeterministicPrescaler, see task #13885. <a href="#">↗</a> The idea and code belongs to Gerhard The Great Raven
Phys/LoKiMC	vanya_20100210	v8r8	Add new symbols: <b>mcY</b> & <b>mcY0</b> for evaluation of rapidity $y = \frac{1}{2} \log \frac{E - p_z}{E + p_z}$ and $y_0 = \frac{1}{2} \log \frac{E - p}{E + p}$
	pkoppenb_20100212	v8r8	Remove useless dependency on DaVinciMCKernel
Rich/RichKernel	jonrob_20100211	v7r30	Improvements to the histogramming base classes
Rich/RichRecBase	jonrob_20100122	v3r26	Increase maximum CK theta for aerogel to match 2009 real data
ST/STKernel	mtobin_20100208	v1r19	added missing python dictionary
	mtobin_20100210		Modified detector plot class
	mtobin_20100211		bug fix in generation of dictionary
Tools/CondDBUI	r5940	v3r2	various updates
Tf/TfKernel	wouter_20100128	v2r15	added hitsLocalXRange to hit creators
Tr/TrackInterfaces	mschille_20100127	v4r10	add ITrackHitCollector interface
	mschille_20100201		ITrackHitCollector: include improvements suggested at the Tracking workshop
	decianm_20100209		changed IAddTTClusterTool for new PatAddTTCoord

## Lbcom v8r2 (Released on 17th February 2010)

Based on Lbcom v8r1, with the following new tags

Package	User tag	Suggested official tag	Comment
Calo/CaloTools	odescham_20100213	v5r15	HeraBExtrapolator->RungeKutta
L0/L0DU	odescham_20100204	v10r2	workaround for weird compilation error on windows
	jucogan_20100212		Add a python module to access individual L0 algorithms
	odescham_20100213		detailed hardware-consistency check of L0TCKs + automatic condition ordering
	jucogan_20100215		add missing file
L0/L0Muon	jucogan_20100204	v9r0	Use CondDB for emulator configuration + clean up
	jucogan_20100205		disable the access to CondDB
	jucogan_20100208		Fix compilation warning + protection against missing condition in DB
	jucogan_20100209		fix bug when filling L0MuonError
Rich/RichMCMonitors	jonrob_20100211	v1r7p2	Adapt to RichKernel changes

Rich/RichTools	jonrob_20100212	v2r28p1	Fix untested StatusCode warning
ST/STMonitors	mtobin_20100208	v2r4	modified histo binning and added new histo
	mtobin_20100210		Modified cluster monitor
	mtobin_20100210		Added some histograms, counters and fixed some indentation
	mtobin_20100215		minor bug fixes
ST/STTools	mtobin_20100208	v3r16	modified reading of condition from dbase
Velo/VeloAssociators	dhcroft_20100204	v2r4	Better associate clusters to MCParticles with MCHits from delta rays

## Rec v8r1 (Released on 18th February 2010)

Based on Rec v8r0, with the following new tags

Package	User tag	Suggested official tag	Comment	release?
Calo/CaloMoniDst	odescham_20100128	v4r4	update SpdMonitor + CaloEFlow (Albert & Aurélien)	
	dgolubko_20100130		CaloEMuMonitor: add histograms, update ref.values	
	odescham_20100205		fix initialization	
	cattanem_20100211		Replace DaVinciMCKernel dependency with MCAssociators	tagged v4r4
Calo/CaloPIDs	dgolubko_20100208	v5r4	add reading of the DLLs from CondDB	
	odescham_20100213		HeraBExtrapolator->RungeKutta	tagged v5r4
Muon/MuonID	helder_20100210	v7r7	MuonID parameters can now be read from conditions database, DLL using hyperbolic tangent histos option (DLL_flag=3)	
	helder_20100216		Made MC09 the default configuration file	
	rlambert_20100216		Fix windows compilation warning	tagged v7r7
Muon/MuonPIDChecker	helder_20100210	v4r1	Added compatibility with DLL_flag=3 - histograms of hyperbolic tangent of distances	tagged v4r1
Muon/MuonTools	asatta_20100209	v5r1	New tools	
	rlambert_20100216		fix windows compilation error	
	rlambert_20100217		fix windows compilation error	tagged v5r1
Muon/MuonTrackRec	rlambert_20100216	v3r0p1	Added vectorisation to avoid warning in wondows nightly	tagged v3r0p1
Rec/LumiAlgs	panmanj_20100212	v3r3	add LumiLow FSR	tagged v3r3
Rich/RichIFBAnalysis	jonrob_20100131	v1r1p1	Various minor improvements and bug fixes	
	youngr_20100212		Dark count code added; Improvements to speed	
	jonrob_20100213		Compilation fixes for latest RichKernel version	tagged v1r1p1

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Rich/RichRecMonitors	jonrob_20100211	v2r25	Adapt to RichKernel changes	tagged v2r25
Rich/RichRecQC	jonrob_20100122	v2r36	Increase max CK theta value for aerogel	
	papanest_20100124	v2r36	ntuples for RichAlignmentMonitor	
	jonrob_20100131		Add new clustering monitor, fix logic error in alignment monitor and suppress some MC related printout in MC-free running	
	jonrob_20100203		Add new histogram that shows the raw expected CK theta distributions for each radiator	
	papanest_20100205		change default range of alignment histos	
	jonrob_20100211		Adapt to RichKernel changes	
	youngr_20100212		2-D IFB hitmaps disabled	tagged v2r36
Rich/RichRecTemplateRings	seaso_20100128	v1r3	Added some fixes in selecting hits for finding Cherenkov rings	tagged v1r3
Rich/RichRecTools	jonrob_20100211	v4r9p2	Adapt to RichKernel changes	tagged v4r9p2
Rich/RichRecTrackTools	jonrob_20100211	v1r16p1	Adapt to RichKernel changes	tagged v1r16p1
Rich/RichRecSys	jonrob_20100212	v3r26	Add temporary correction to aerogel CK theta values for earlyData. To be removed once DB is properly updated	tagged v3r26
Tf/PatAlgorithms	decianm_20100212	v3r29	new parameters, parametrisation and methods in PatAddTTCoord, fixed unchecked StatusCode	
	smenzeme_20100213		latest early data tuning for PatDownstream and PatForward	tagged v3r29
Tf/TfTools	wouter_20100128	v1r10	added hitsLocalXRange to hit creators	tagged v1r10
Tf/TrackMatching	decianm_20100208_2	v2r27	changes in AddTTClusterTool for new IAddTTClusterTool	tagged v2r27
Tf/TrackSys	smenzeme_20100213	v4r30	move all decoding and clustering at the beginning of the tracking sequence	tagged v4r30
Tr/PatPV	witekma_20100209		improvements for displaced PV	
	graven_20100211		make sure that filterPassed is set to false if no vertices found under all circumstances	
	smenzeme_20100213		add PatPVVeryLoose.py for the tuning on 2009 data	tagged v3r13
Tr/PatChecker	pmorawsk_20100211	v3r6	added VELO tracks counetr, some printouts and histos; shifts measured with respect to MC position	
	pmorawsk_20100211a		fixed bug in previous version	tagged v3r6
Tr/TrackExtrapolators	graven_20100211	v2r24p2	SimplifiedMaterialLocator: change 2 messages during initialize from	tagged v2r24p2

			Info to Debug	
Tr/TrackFitEvent	wouter_20100201	v4r4	added muon chi2 information to KalmanFitResult	
	wouter_20100214		added flag that tells how drifttime was used by track fit	tagged v4r4
Tr/TrackFitter	wouter_20100216	v2r45	configurable changes needed for HLT	tagged v2r44p1
Tr/TrackMonitor	wouter_20100202	v1r20	added profiles to OTHitEfficiencyMonitor	
	svecchi_20100209		added TrackMuonMatchMonitor	
	wouter_20100214		added histograms to OTEffMonitor and OTTrackMonitor	tagged v1r20
Tr/TrackProjectors	wouter_20100214	v2r27	improvements in TrajOTProjector	tagged v2r27
Tr/TrackTools	mschille_20100127	v3r26	add TrackHitCollector tool (collects hits around a track)	
	mschille_20100201		TrackHitCollector: include improvements suggested at the Tracking workshop	tagged v3r26
Tr/TrackUtils	wouter_20100128	v1r34	added TrackHitAdder	
	wouter_20100202		fixed bug in TrackV0Utils (Marco Cattaneo)	tagged v1r34
RecSys	smenzeme_20100215	v8r1	call different PatPV options for "2009" datatype and/or "earlyData" special data	
Velo/VeloRecMonitors	malexand_20100201	v2r6	added filtering of beam-gas to VeloIPResolutionMonitor	
	siborghi_20100209		bug fix and update residual method to the change in Det/VeloDet in krinnert_20100208	
	szumlat_20100210		Add projected angle computation in VeloTrackMoniNT algorithm	tagged v2r6

## Hlt v9r1 (released on 19th of February)

Based on Hlt v9r0 but using LHCb v29r1, and the following new tags

Package	User tag	Suggested official tag	Comment
Hlt/HltBeamGasAlley	graven_20100212	v2r2p4	replace float by double
	graven_20100213		do not generate an error() message when there is no real error
	phopchev_20100214		use variable bin-width in BeamGasTrigVertexCut
	graven_20100215		fix compiler warning
Hlt/HltCommon	graven_20100214	v5r18	add direct tar file write support to ConfigTarFileAccessSvc
	graven_20100217		fix for windows compilation, make ConfigTarFileAccessSvc the default IConfigFileAccessSvc
Hlt/HltConf	graven_20100208	v6r4	remove explicit rate limit on individual Hlt2ExpressLines when setting express bit, this is now intrinsic in the line definition

	graven_20100208a		put final rate limit on express stream in a slot
	albrecht_20100209		set express rate limit to 5Hz
	gligorov_20100211		Change SoftDiHadron to DiHadronSoft
	graven_20100211		add L0ConfirmWithT/THadronConf to HltInit.py
	graven_20100212		update names of beamgas, minibias and nobias lines
	graven_20100212a		follow changes in HltGlobalMonitor
	graven_20100214		move some options files to Hlt2Lines to make them more localized
	gligorov_20100218		Update Hlt2.py to follow changes in Hlt2PID.py
	kvervink_20100218		regrouped some alleys for the HltGlobalMonitor
Hlt/HltGlobalMonitor	graven_20100212	v3r1	generalize and streamline
	graven_20100215		fix windows compiler warnings
	kvervink_20100218		unused histograms are removed
Hlt/HltLine	gligorov_20100206	v3r1	Allow rate limiting pre/postscalars using the "RATE(X)" syntax
	graven_20100208		cosmetic tweak of the above
	graven_20100209		fix PV2D fitter configuration as indicated by Mariusz
	graven_20100214		cleanup reco sequences
	graven_20100215		make MinimalRZVelo available
Hlt/HltL0Conf	graven_20100212	v2r13p1	reduce some info() messages to debug()
Hlt/HltMuon	graven_20100212	v3r5p4	replace some floats with doubles
Hlt/HltMuonAlley	graven_20100212	v3r0p1	replace some floats with doubles
Hlt/HltSettings	gligorov_20100204	v1r8	Include a threshold settings used for the L0 hadron confirmation study
	albrecht_20100209		fix syntax error in new Configuration
	gligorov_20100211		Change SoftDiHadron to DiHadronSoft
	graven_20100211		activate beam gas lines in Physics_320Vis_300L0....
	graven_20100212		follow name changes
	albrecht_20100213		follow name changes in unbiased dimuon lines
	albrecht_20100213a		remove duplicate HLT1 muon lines
	graven_20100214		remove B2DX lines from 2010 settings, see <a href="https://savannah.cern.ch/bugs/?59641">https://savannah.cern.ch/bugs/?59641</a>
	albrecht_20100217		add Drell-Yan lines to Feb10 setting
	graven_20100217		remove the B2DX lines from the 2010 settings, see <a href="https://savannah.cern.ch/bugs/?62726">https://savannah.cern.ch/bugs/?62726</a>
Hlt/HltTracking	graven_20100211	v4r4p2	reduce verbosity during initialize
Hlt/Hlt1Lines	graven_20100209	v2r1p1	add ODIN filter to Hlt1L0xxx lines which have a MASK defined in L0 configuration
	gligorov_20100211		Change SoftDiHadron to DiHadronSoft
	graven_20100211		add rate limit to beamgas lines
	graven_20100212		update names of beamgas, minibias and nobias lines to allow easier pattern matching
	graven_20100212a		put TT decoding in HadronViaT behind PV2D
	graven_20100214		enable some reco in lumi lines, remove 2D histograms in lumi lines
	phopchev_20100214		updated the BeamGasLines to use ODIN_TRGTYPE
	phopchev_20100215		fixed typos; removed development fragments

	graven_20100215		add L0 predicate to BeamGasLines
	graven_20100215a		few more small tweaks to ForcedRZVelo beamgas line
	graven_20100215b		final (?) tweak to ForcedRZVelo beamgas line
	graven_20100217		remove TTGeneric from lumi, see <a href="https://savannah.cern.ch/bugs/?62933">https://savannah.cern.ch/bugs/?62933</a>
	albrecht_20100218		loose PR cuts in muon lines
Hlt/Hlt2Lines	albrecht_20100205	v2r4	revert accidental commit which disabled the setting of the properties RMin1 and RMin2 of Hlt2DisplVerticesLines.py
	graven_20100208		use explicit RATE(X) postscalers in Hlt2ExpressLines Add new module
	graven_20100212		eliminate some run-time warnings by setting the right properties
	albrecht_20100213		add Drell-Yan lines, name change from Unbiased.. to DiMuonUnbiased
	albrecht_20100213a		modify cutsin Hlt2ExpressLines.py
	graven_20100214		move options files from HltConf to Hlt2Lines to make them more local
	graven_20100214a		switch off muon PID in Hlt2TrackFitForTopo
	gligorov_20100218		Change inclusive lines (topo,charm,phi,b2dx) to follow changes in Hlt2PID.py
Hlt/Hlt2SharedParticles	graven_20100214		follow movement of options files from HltConf to Hlt2Lines
	gligorov_20100218		Major change to Hlt2PID and other files, see Savannah 12691,13784
Hlt/TCKUtils	graven_20100217	v1r6p2	make sure that ConfigTreeEditor uses the right IConfigFileAccessSvc instance

### Phys v9r1 (released 19th February 2010)

Phys/DaVinciMCKernel	gligorov_20100211	v4r2	Move linker classes needed by Brunel to new package Associators/MCAssociators
Phys/LoKiAlgo	vanya_20100209	v8r2	Add protection for missing primary vertices
Phys/LoKiAlgoMC	cattanem_20100214	v8r2	Add HybridMCParticleArrayFilter.cpp, moved from LoKiMC

### Boole v20r3 (Released 19th February 2010)

Based on Boole v20r2 but using Lbcom v8r2, LHCb v29r1, and the following new tags

Package	User tag	Suggested official tag	Comment
Rich/RichReadout	jonrob_20100212	v2r12p2	Adapt to changes in RichKernel

### Brunel v36r1 (Released 19th February 2010)

Based on Brunel v36r0 but using Rec v8r1, Lbcom v8r2, LHCb v28r1, and the following new tags

Package	User tag	Suggested official tag	Comment
Rec/Brunel	cattanem_20100129	v8r1	Remove obsolete OTTimeCreator from CheckOTSeq

-- MarcoCattaneo - 12-Feb-2010



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