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Releases based on LHCb v28r2 (and Gaudi v21r6, LCG_57a)

This page documents releases based on LHCb v28r2. **Do not edit**, the content of these releases is frozen.

LHCb v28r2

Released on 16th November 2009. Based on LHCb v28r1, with the following new tags

Package	User tag	Suggested official tag	Comment
LHCbSys	vanya_20091022		add new package Kernel/HistoStrings
	jucogan_20091027		add new package L0/LOBase
Calo/CaloDAQ	odescham_20091027	v4r15	Add protections
	vanya_20091027		add new configurable CaloDigitConf to access Calo Digits
	vanya_20091029		remove excessive debug printout
Calo/CaloInterfaces	vanya_20091025	v7r16	add new interface ICaloDigits4Track
Calo/CaloUtils	vanya_20091025	v8r8	use new typedef and new interface
	odescham_20091108		speed-up Calo2Dview
DAQ/MDF		v3r21	Fix bug in MEP decoding
DAQ/Tell1Kernel	szumlat_20091024	v1r9	Add definitions needed by the new Tell1 digi phase in Boole
Det/DetDesc	vanya_20091023	v18r16	add the first version of "histogram-conditions", converters follow...
	wouter_20091113		add function to compute the jacobian of a transform used in alignment and monitoring
	marcocle_20091024		Fixed a typo in HistogramCondition.cpp
Det/DetDescCnv	cattanem_20091102	v4r10	Speed up initialisation, fix memory leak
Det/RichDet	papanest_20091111	v13r0	HLT refractive index for gas radiators
Det/STDet	jluisier_20091028	v4r15	Bug fix in DeSTSector
	mneedham_20091106		add sensor capacitance functions
	mneedham_20091020		Add common condition to DeSTSector
	mneedham_20091111		Accidental tag
Det/VeloPixDet	cocov_20091019	v1r1	modif. in DeVeloPixSquareType: function to deal with channelID, neighbours, etc.
	cocov_20091021_v2		Warning on win32 compil float cast to double + modif of PixelSize function
	cocov_20091028		Debugging of pointToChannel and similar functions in DeVeloPixSquareType
	cocov_20091029		added channelToChannels and debug pointTo3x3Channel + channel2Point
	cocov_20091106		debug channelToChannels
Event/DAQEvent	odescham_20091016	v8r2	new component ODINTimeFilter
	marcocle_20091106		changed the ODIN trigger types
Event/DigiEvent	vanya_20091025	v2r13	add typedefs LHCb::CaloDigit::Vector and LHCb::CaloDigit::Set
Event/EventAssoc	cocov_20091104	v5r0	Add relation weighted 1D between LHCb::Particle and LHCb::Particle
	jpalac_20091105		Split into two dictionaries

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	jpalac_20091113		Add 1D relations for Particle->int, Particle->double
Event/EventPacker	jonrob_20091111	v2r0	Add new packers, unpackers and checkers for MC data, RichPIDs and MuonPIDs
Event/HltEvent	graven_20091107	v8r19	remove obsolete HltSummary.xml
Event/LumiEvent	panmanj_20091106		Adapt to Odin v6 triggerTypes
	rlambert_20091109	v2r3	Add new class to store event counts
	rlambert_20091111		Add status enum to EventCountFSR
Event/MCEvent	cocov_20091026	v2r15p2	add VeloPix MCHits location
Event/PackedEvent	jonrob_20091111	v3r7	Add new packed data classes for MC data
Event/PhysEvent		v11r10	Change to Tagger.xml
Event/RecEvent	pkoppenb_20091109	v2r23	Rename enums for HLT PVs
Event/TrackEvent	wouter_20091110	v5r2	Fix declaration of node-range
GaudiConf	jonrob_20091103	v13r0	Add new SimConf Configurable + Update DigiConf and DstConf
	cattanem_20091104		Fix data on demand unpacking
	cattanem_20091105		Fix spillover, remove ODIN from DST
	jonrob_20091106		Change name of Muon Tracks unpacking algorithm (for clarity)
	cattanem_20091109		Add AlwaysCreate slot
	jonrob_20091110		Add data packing checks
	cattanem_20091111		Fix propagation of Spillover paths
Kernel/HistoStrings	vanya_20091022	v1r0	new package for histo-to/from-string conversion (histograms as properties, histograms as conditions, etc...)
Kernel/HltInterfaces	pkoppenb_20091106	v2r1	Add function to decode routing bits (pulls a dependency on DAQEvent)
	graven_20091107	v3r0	Remove obsolete IHltSummaryTool
	pkoppenb_20091110		Do not break on missing RawBank
Kernel/LHCbAlgs	v2r29p1	v2r29p1	accept ODIN bank version 6 (already released at Point 8)
	jonrob_20091106	v2r30	Add new algorithm that performs DataObject version sequence filtering
	jonrob_20091109		Change data member to unsigned char in DataObjectVersionFilter + Pickup some changes from Marco CL. ?
	marcocle_20091109		modified the ODIN decode tool to accept a list of locations for the RawEvent (by default RawEvent::Copied and RawEvent::Default)
Kernel/LHCbMath	vanya_20091022	v3r14	add more decorations for lines, planes & their operations
	vanya_20091023		reimplement LHCb::Math::round using boost::numeric::converter, gain around factor of 10 in CPU, also add a test of Knuth vs. Lomont compare for floating point numbers. Lomont compare is ~ factor 4 more CPU efficient
Kernel/LHCbKernel	vanya_20091025	v11r9	add typedef LHCb::CaloCellID::Set
	jonrob_20091107		Add more const'ness to StandardPacker
	jonrob_20091110		Add methods to pack dLL values
	wouter_20091111		Added methods to retrieve sequential IDs to OTChannelID
	mneedham_20091111		Bug fix in TTNames

Kernel/MCInterfaces	cocov_20091106	v1r10	add interface IHepMCParticleSelector
L0/L0Base	jucogan_20091029	v1r2	Modify default property for L0FromRawBase.cpp
OT/OTDAQ	wouter_20091023	v7r6	made MultiBXRawBankDecoder::initialize more verbose
Phys/DaVinciInterfaces	jpalac_20091030	v1r3	Remove IPhysDesktop::relatedPVFinder method
	pkoppenb_20091105		Fix doxygen
	cocov_20091110		Add IJets2Jets interface
	jpalac_20091110		Add IPhysDesktop::setOutputLocation method
	jpalac_20091111		remove IPhysDesktop::imposeOutputLocation
Phys/DaVinciKernel	jpalac_20091027	v8r3	Add method to retrieve InputLocations. Make BTaggingTool private.
	jpalac_20091030		DVAlgo takes more control of OnOffline, locations and PV relator tool
	jpalac_20091105		Add Kernel/DaVinciP2VVAngles.h for P->VV angle calculations
	jpalac_20091105b		Bug fix: decision whether to copy P->PV table was based on previous event
	jpalac_20091110a		DVAlgorithm takes control of standard PVs, sets outputLocation of PhysDesktop
	jpalac_20091111		DVAlgorithm uses IPhysDesktop::setOutputLocation
Phys/DaVinciTypes		v1r1	
Phys/LoKiCore	cattanem_20091111	v9r5p1	Fix untested StatusCode
Sim/SimComponents	pkoppenb_20091021	v2r20	Warning on non found decays in MCDecayFinder
ST/STKernel	jvantilb_20091026	v1r18	Use interstripFraction from raw buffer in STTell1Board::ADCToOffline
	mtobin_20091030		Add interface for noise calculation tool
	mtobin_20091110		Modified noise calculation tool interface
Tf/TfKernel	wouter_20091110	v2r13	Add method to OTHitCreator to create hit from lhcbid
Tr/TrackInterfaces	jblouw_20091105	v4r9	added interface to PitchRes tool

Lbcom v7r8

Released on 16th November 2009. Based on Lbcom v7r7, with the following new tags

Package	User tag	Suggested official tag	Comment
Calo/CaloAssociators	odescham_20091027	v6r10	complete on-Demand settings
	vanya_20091027		add new Configurable
Calo/CaloTools	dgolubko_20091105	v5r13	bugfix in L0Calo2CaloTool, remove the DuplicateClustersOnTES switch
Hlt/HltDAQ	graven_20091107	v1r1p1	publish counters to monitor service
L0/L0Calo	robbep_20092910	v10r0	Move to new structure of L0 Algorithms (uses L0/L0Base)
L0/L0DU	robbep_20091029	v9r0	Move to new structure of L0 Algorithms (uses L0/L0Base)
ST/STAlgorithms	mneedham_20091020	v3r10	Add noise writing algorithm
	jhuisier_20091028		Add strip checking algorithm, bug fix in noise writing algorithm

ST/STDAQ	jvantilb_20091026	v3r20	RawBankToSTClusterAlg: Adopt changes in STKernel and use stored interstrip.
	mtobin_20091030		Added method to ReadoutTool
	mneedham_20091106		Suppress warnings about lost banks
	mneedham_20091111		Check StatusCodes
ST/STMonitors	jvantilb_20091026	v1r7	Add new algorithm: STPulseMonitor.
	mtobin_20091030	v2r0	Modified NZS monitoring to use ISTNoiseCalculationTool.
	mtobin_20091110		Changed some binning/histograms for online consistency.
	mtobin_20091112		Added plots of pedestals in noise monitoring.
ST/STTools	mtobin_20091030	v3r13	Add implementation of STNoiseCalculationTool
	mneedham_20091106		Add STSelectLadders17
	mtobin_20091110		Add some protections to noise calculation tools
Velo/VeloAlgorithms	szumlat_20091024	v5r0	Updates to new Tell1 digitisation algorithms
Velo/VeloDAQ	serena_20091030	v4r10	bug fix in PileUp (binary banks) decoder
	szumlat_20091112		Change message from error to Warnig when a duplicate cluster is found

Rec v7r8

Released on 17th November 2009. Based on Rec v7r7, with the following new tags

Package	User tag	Suggested official tag	Comment
Calo/CaloPIDs	vanya_20091025	v5r2	add ICaloDigits4Track interface to (CALO)EnergyFroTrack tool
	vanya_20091030		suppress few run-time warnings
Calo/CaloReco	odescham_20091027	v5r3	fix settings
	vanya_20091027		use new configurable CaloDigitConf to access CaloDigits
	dgolubko_20091030		bugfix in CaloClusterizationTool for level=1
	dgolubko_20091105		CaloClusterizationTool: correction for level=0, use of CaloFuncutors::neighbours()
	cattanem_20091109		propagate OutputLevel to CaloDigitsConf
Muon/MuonID	jonrob_20091108	v7r3	Allow MuonPID to be rerun when PID objects already exist on the TES.
	wouter_20091110		Use ConfiguredMasterFitter to configure track fitters
Rec/GlobalReco	jonrob_20091106	v6r28	Changes for new DST content. No longer add Rich, Muon or Combined DLL information to ProtoParticles (now stored directly on DSTs).
Tf/PatAlgorithms	smenzeme_20091106	v3r24	fix uninitialized member variable
	wouter_20091110		Replace OTRawBankDecoder with OTHitCreator in PadSeedFit
Tf/PatVeloTT	wouter_20091030	v3r9	made MagnetTool aware of field updates
Tf/TfTools	wouter_20091110	v1r8	Remove a bad assert
Tf/TrackSys	smenzeme_20091031	v4r27	remove extra Info algorithms from cosmic sequence
	smenzeme_20091103		change configurabels to automatically run proper settings for cosmsics
Tr/PatPV	pkoppenb_20091111	v3r9	new 3D fit algo for 3D vertices, remove _dll file

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Tr /TrackFitEvent	wouter_20091111	v4r2	added KalmanFitResult
Tr/TrackFitter	wouter_20091110	v2r39	add config for cosmics. fix range in trackmasterfitter
	wouter_20091111		move projection to trackmasterfitter. store seedCov in new class KalmanFitResult
Tr/TrackMonitors	wouter_20091029	v1r15	fixed memory leak, fixed histo limits
	jblouw_20091105		added PitchRes tool, added pitch residuals to OTTrackMonitors
	mneedham		Make alignment histos by default
	wouter_20091113		add TrackAlignMonitor
Tr/TrackProjectors	wouter_20091113	v2r26	add to TrackProjector to tool factory. simplify computation of alignderivatives
Tr/TrackTools	albrecht_20091021	v3r22p1	fix of small memory leak in TrackNNGhostId
	albrecht_20091023	v3r23	add GhostId for all track types
	albrecht_20091027		add previously forgotten src/TMVA weight files
	smezeme_20091031		check for existence of cluster collections in TrackNNGhostId
	cattanem_20091030		Fix compilation warnings
Tr/TrackUtils	albrecht_20091023	v1r31	change ghostId tool to private
	cattanem_20091111		Fix untested StatusCodes
Rec/LumiAlgs	panmanj_20091106	v2r3	Adapt to Odin v6 triggerTypes
	panmanj_20091111		protection: no FSR on MDF, and more Odin v6 trigger types
	rlambert_20091111		Added new alg EventAccounting to maintain the EventCountFSR, qmtests, minor fix in configurable
	panmanj_20091112		add LumiIntegratorConf: integrates the lumiFSR for analysis jobs
	rlambert_20091112		fixed Configurable and logic error in EventAccounting
	rlambert_20091113		added use statement for GaudiConf
Tf/PatAlgorithms	kholubye_20091112		if running over hits not used by PatForward, added an option to reuse hits from "bad" PatForward tracks
Tf/TsaAlgorithms	kholubye_20091112		option to run over hits not used by PatForward
Tf/TrackMatching	kholubye_20091112		option to discard velo seeds used by PatForward
Tf/TrackSys	kholubye_20091112		fast reconstruction sequence
Tr/TrackFitter	kholubye_20091112		in ConfiguredFitters.py: ConfiguredFitter (universal), ConfiguredFitSeed (small ErrorQoP to fit Seeds for TrackMatching)
Tr/TrackTools	kholubye_20091112		minor modification in TrackCloneFinder, bug fix in TrackStateInitTool
Tr/TrackCheckers	kholubye_20091112		TrackOccupChecker class added for occupancy studies

Boole v19r8

To be released on 19th November 2009. Based on Boole v19r7 but using Lbcom v7r8, LHCb v28r2, and the following new tags

Package	User tag	Suggested official tag	Comment
Digi/Boole	szumlat_20091024	v19r8	Add option to activate the new Tell1 digi line
	jonrob_20091103		Updates to adapt to changes in GaudiConf

	marcocle_20091109		Fixed the configurable to match the new ODIN trigger types
	szumlat_20091112		Change option to activate the Tell1 processing line for the VELO
Digi/DigiAlg	marcocle_20091107	v4r18	Modified BooleInit to use the new ODIN trigger types
Velo/VeloDAQ		v4r11	

Brunel v35r8

To be released on 18th November 2009. Based on Brunel v35r7 but using Rec v7r8, Lbcom v7r8, LHCb v27r8, and the following new tags

Package	User tag	Suggested official tag	Comment
	smenzeme_20091103	v35r8	all cosmic settings are now automatically done in TrackSys
	rlambert_20091112		added test for FSR writing based on LumiAlgs configurable and ioreaddst, currently says pass, although it fails...
	rlambert_20091113		changed how the configurable works with the FSRs, hope this is how it's meant to be.

Panoptes v2r8 (released on 25th November 2009)

Package	User tag	Suggested official tag	Comment
Rich/Panoptes	nmangiaf_20091113	v2r8	Modified scripts/runCameraGui.sh to handle new CAMERA layout.
Rich/RichOnlineMonitors	nmangiaf_20091113	v2r8	Fixed several bugs in the errors and histograms handling

-- MarcoCattaneo - 30-Nov-2009

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