

# Table of Contents

<b>Requests made on 16th Feb 2008.....</b>	<b>1</b>
General samples.....	1
Event types for general samples and status of production.....	1
Software configuration for general samples.....	1
Particle guns with only calorimeters.....	4
Event types for calo particle gun samples and status of production.....	4
Software configuration for calo particle guns.....	6
Particle guns for/with all detectors.....	7
Event types for particle gun samples and status of production.....	7
Software configuration for particle guns.....	11

# Requests made on 16th Feb 2008

for production to validate simulation phase for physics production

For min bias and b inclusive samples Gauss Boole Brunel need to be run and sim, digi and dst files need to be kept. The will be available in the bookkeeping.

For the particle guns Gauss Boole need to be run and sim+digi files need to be kept. The files will be available from the bookkeeping under the *MC 2008*, *MC 2008 HT* and *MC 2008 LT* folders.

## General samples

### Event types for general samples and status of production

Sample	EvtType	No. of events	Physics(list and cuts)	Responsible	Prodid	Status
LHCbPhysics.MinimumBias	30000000	5 K	LHEP + EM option1 + DRay off + KineHT	lhcb-gauss	4012 (Req 31)	Completed
		5 K	LHEP + EM option1 + DRay on + KineHT	lhcb-gauss	4013 (Req 33)	Completed
		5 K	LHEP + EM option1 + DRay on + KineLT	lhcb-gauss	4014 (Req 35)	Completed
		5 K	QGSP + EM option1 + DRay off + KineHT	lhcb-gauss	4015 (Req 37)	Completed
Inclusive b	10000000	20 K	LHEP + EM option1 + DRay off + KineHT	lhcb-gauss	4016 (Req 32)	Completed
		20 K	LHEP + EM option1 + DRay on + KineHT	lhcb-gauss	4017 (Req 34)	Completed
		20 K	LHEP + EM option1 + DRay on + KineLT	lhcb-gauss	4018 (Req 36)	Completed
		20 K	QGSP + EM option1 + DRay off + KineHT	lhcb-gauss	4019 (Req 38)	Completed

### Software configuration for general samples

Minimum bias and Inclusive b		
Request 1: Three steps running Gauss Boole Brunel with Nominal settings		
Step 1	Gauss	v36r2
	DecFiles	v16r1
	Tag of DDDB and SIMCOND	head-20090112, sim-20090112
	Generator to be used	Pythia

## SimulationRequests &lt; LHCb &lt; TWiki

	Configuration:	Beam energy	7 TeV	
		Velo	Closed	
		Magnet polarity	Down	
		Luminosity	2x10 <sup>32</sup>	
		Tuning	Default	
	Options for all jobs:	Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts \$LBPYTHIAROOT/options/Pythia.opts		
Step 2	Boole	v17r2p1		
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112		
	Spillover	Off		
	Options for all jobs:	Boole-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112		
Step 3	Brunel	v34r1p1		
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112		
	Magnetic field	On		
	Options for all jobs:	Brunel-2008-MC.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112		
<b>Request 2: Three steps running Gauss Boole Brunel with Delta rays On, High thresholds</b>				
Step 1	Gauss	v36r2		
	DecFiles	v16r1		
	Tag of DDDDB and SIMCOND	head-20090112		
	Generator to be used	Pythia		
	Configuration:	Beam energy	7 TeV	
		Velo	Closed	
		Magnet polarity	Down	
		Luminosity	2x10 <sup>32</sup>	
		Tuning	HT	
Options for all jobs:	Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts \$LBPYTHIAROOT/options/Pythia.opts DraysOn-HT.opts			
Step 2	Boole	v17r2p1		
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112		
	Spillover	Off		
	Options for all jobs:	same as Request 1		
Step 3	Brunel	v34r1p1		
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112		
	Magnetic field	On		
	Options for all jobs:	same as Request 1		

<b>Request 3: Three steps running Gauss Boole Brunel with Delta rays On, Low thresholds</b>			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia	
	Configuration:	Beam energy	7 TeV
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup>
		Tuning	LT
	Options for all jobs:	Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts \$LBPYTHIAROOT/options/Pythia.opts DraysOn-LT.opts	
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	
Step 3	Brunel	v34r1p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Magnetic field	On	
	Options for all jobs:	same as Request 1	
<b>Request 4: Three steps running Gauss Boole Brunel with QGSP physics list</b>			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia	
	Configuration:	Beam energy	7 TeV
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup>
		Tuning	QGSP
	Options for all jobs:	Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts \$LBPYTHIAROOT/options/Pythia.opts PhysList-QGSP.opts	
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	
Step 3	Brunel	v34r1p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	

Magnetic field	On
Options for all jobs:	same as Request 1

## Particle guns with only calorimeters

### Event types for calo particle gun samples and status of production

Sample: Type	& Energy	EvtType	Physics(list and cuts)	No. of events	Responsible	Prodid	Status
pi+/pi- in calos	1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV, 100 GeV, 120 GeV, 168 GeV	53200001, 53200005, 53200010, 53200017, 53200034, 53200050, 53200100, 53200120, 53200168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy and physics setting	lhcb-gauss	4339, 4348, 4354, 4357, 4342, 4360, 4345, 4363, 4351	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy and physics setting	lhcb-gauss	4340, 4349, 4355, 4358, 4343, 4361, 4346, 4364, 4352	Completed
			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy and physics setting	lhcb-gauss	4341, 4350, 4356, 4359, 4344, 4362, 4347, 4365, 4353	Completed
e- in calos	1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV, 100 GeV, 168 GeV	51000001, 51000005, 51000010, 51000017, 51000034, 51000050, 51000100, 51000168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4571, 4580, 4586, 4589, 4574, 4592, 4577, 4583	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4572, 4581, 4587, 4590, 4575,	Completed

## SimulationRequests &lt; LHCb &lt; TWiki

						4593, 4578, 4584	
			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4573, 4582, 4588, 4591, 4576, 4594, 4579, 4585	Completed
gamma in calos	1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV ,100 GeV, 120 GeV, 168 GeV	56000001, 56000005, 56000010, 56000017, 56000034, 56000050, 56000100, 56000168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4366, 4375, 4381, 4384, 4369, 4387, 4372, 4378	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4367, 4376, 4382, 4385, 4370, 4388, 4373, 4379	Completed
			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4368, 4377, 4383, 4386, 4371, 4389, 4374, 4380	Completed
pi0 in calos	1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV ,100 GeV, 120 GeV, 168 GeV	57000001, 57000005, 57000010, 57000017, 57000034, 57000050, 57000100, 57000168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4315, 4324, 4330, 4333, 4318, 4336, 4321, 4327	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4316, 4325, 4331, 4334, 4319, 4337, 4322, 4328	Completed

			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4317, 4326, 4332, 4335, 4320, 4338, 4323, 4329	Completed
--	--	--	--	----------------------------	------------	---	-----------

## Software configuration for calo particle guns

Particle gun in calo acceptance event types			
Request 1: Two steps running Gauss Boole with Nominal settings			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia <i>irrelevant</i>	
	Configuration:	Beam energy	7 TeV <i>irrelevant</i>
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> <i>irrelevant</i>
		Tuning	Default
	Options for all jobs:	Gauss-2008.py	
LHCbApp().DDDBtag = head-20090112			
LHCbApp().CondDBtag = sim-20090112			
Beam7TeV-VeloClosed-MagDown.py			
\$DECFILEROOT/options/EventType.opts			
		CaloOnly.opts	
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	Boole-2008.py	
		LHCbApp().DDDBtag = head-20090112	
LHCbApp().CondDBtag = sim-20090112			
Request 2: Two steps running Gauss Boole with Delta rays On, High thresholds			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia <i>irrelevant</i>	
	Configuration:	Beam energy	7 TeV <i>irrelevant</i>
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> <i>irrelevant</i>
		Tuning	HT
	Options for all jobs:	Gauss-2008.py	
LHCbApp().DDDBtag = head-20090112			
LHCbApp().CondDBtag = sim-20090112			
Beam7TeV-VeloClosed-MagDown.py			
\$DECFILEROOT/options/EventType.opts			

		CaloOnly.opts	
		DraysOn-HT.opts	
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	
<b>Request 3: Two steps running Gauss Boole with Delta rays On, Low thresholds</b>			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia irrelevant	
	Configuration:	Beam energy	7 TeV irrelevant
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> irrelevant
		Tuning	LT
	Options for all jobs:	Gauss-2008.py	
LHCbApp().DDDBtag = head-20090112			
LHCbApp().CondDBtag = sim-20090112			
Beam7TeV-VeloClosed-MagDown.py			
\$DECFILEROOT/options/EventType.opts			
DraysOn-LT.opts			
	CaloOnly.opts		
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	

## Particle guns for/with all detectors

### Event types for particle gun samples and status of production

Sample: Type	& Energy	EvtType	Physics(list and cuts)	No. of events	Responsible	Prodid	Status
pi+/pi-	0.1 GeV, 0.2 GeV, 0.4 GeV, 1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV, 100 GeV, 120 GeV, 168 GeV	53230100, 53230200, 53230400, 53210001, 53210005, 53210010, 53210017, 53210034, 53210050, 53210100, 53210120, 53210168	LHEP + EM option1 + DRay off + KineHT	80 K for each energy and physics setting	lhcb-gauss	4552, 4561, 4534, 4546, 4555, 4567, 4537, 4549, 4540, 4564, 4543, 4558	Completed
					lhcb-gauss		Completed



SimulationRequests < LHCb < TWiki

			LHEP + EM option1 + DRay on+ KineHT	80 K for each energy and physics setting		4553, 4562, 4535, 4547, 4556, 4568, 4538, 4550, 4541, 4565, 4544, 4559	
			LHEP + EM option1 + DRay on+ KineLT	80 K for each energy and physics setting	lhcb-gauss	4554, 4563, 4536, 4548, 4557, 4569, 4539, 4551, 4542, 4566, 4545, 4560	Completed
e+/e-	0.1 GeV, 0.2 GeV, 0.4 GeV, 1 GeV, 5 GeV, 10 GeV, 16.8 GeV, 33.8 GeV, 50 GeV, 100 GeV, 120 GeV, 168 GeV	51230100, 51230200, 51230400, 51210001, 51210005, 51210010, 51210017, 51210034, 51210050, 51210100, 51210120, 51210168	LHEP + EM option1 + DRay off + KineHT	80 K for each energy	lhcb-gauss	4519, 4525, 4498, 4510, 4522, 4531, 4501, 4513, 4504, 4528, 4507, 4516	Completed
			LHEP + EM option1 + DRay on+ KineHT	80 K for each energy	lhcb-gauss	4520, 4526, 4499, 4511, 4523, 4532, 4502, 4514, 4505, 4529, 4508, 4517	Completed
			LHEP + EM option1 + DRay on+ KineLT	80 K for each energy	lhcb-gauss	4521, 4527, 4500, 4512, 4524,	Completed

## SimulationRequests &lt; LHCb &lt; TWiki

						4533, 4503, 4515, 4506, 4530, 4509, 4518	
mu+/mu-	0.1 GeV, 0.2 GeV, 0.4 GeV, 1 GeV, 5 GeV, 10 GeV, 16.8 GeV , 33.8 GeV , 50 GeV ,100 GeV, 120 GeV, 168 GeV	52230100, 52230200, 52230400, 52210001, 52210005, 52210010, 52210017, 52210034, 52210050, 52210100, 52210120, 52210168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4411, 4417, 4390, 4405, 4414, 4423, 4393, 4408, 4396, 4420, 4402, 4399	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4412, 4418, 4391, 4406, 4415, 4424, 4394, 4409, 4397, 4421, 4403, 4400	Completed
			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4413, 4419, 4392, 4407, 4416, 4425, 4395, 4410, 4398, 4422, 4404, 4401	Completed
K+/K-	0.1 GeV, 0.2 GeV, 0.4 GeV, 1 GeV, 5 GeV, 10 GeV, 16.8 GeV , 33.8 GeV , 50 GeV ,100 GeV, 120 GeV, 168 GeV	54230100, 54230200, 54230400, 54210001, 54210005, 54210010, 54210017, 54210034,	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4447, 4453, 4426, 4441, 4450, 4459, 4429, 4444,	Completed

SimulationRequests < LHCb < TWiki

		54210050, 54210100, 54210120, 54210168				4432, 4456, 4435, 4438	
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4448, 4454, 4427, 4442, 4451, 4460, 4430, 4445, 4433, 4457, 4436, 4439	Completed
			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4449, 4455, 4428, 4443, 4452, 4461, 4431, 4446, 4434, 4458, 4437, 4440	Completed
p/p~	0.1 GeV, 0.2 GeV, 0.4 GeV, 1 GeV, 5 GeV, 10 GeV, 16.8 GeV , 33.8 GeV , 50 GeV ,100 GeV, 120 GeV, 168 GeV	55230100, 55230200, 55230400, 55210001, 55210005, 55210010, 55210017, 55210034, 55210050, 55210100, 55210120, 55210168	LHEP + EM option1 + DRay off + KineHT	50 K for each energy	lhcb-gauss	4480, 4486, 4462, 4474, 4483, 4492, 4465, 4477, 4468, 4489, 4471, 4495	Completed
			LHEP + EM option1 + DRay on+ KineHT	50 K for each energy	lhcb-gauss	4481, 4487, 4463, 4475, 4484, 4493, 4466, 4478, 4469, 4490, 4472, 4496	Completed

## SimulationRequests &lt; LHCb &lt; TWiki

			LHEP + EM option1 + DRay on+ KineLT	50 K for each energy	lhcb-gauss	4482, 4488, 4464, 4476, 4485, 4494, 4467, 4479, 4470, 4491, 4473, 4497	Completed
J/Psi	20 GeV < E < 140 GeV	59050001	LHEP + EM option1 + DRay off + KineHT	50 K	lhcb-gauss	event type not available	
			LHEP + EM option1 + DRay on+ KineHT	50 K	lhcb-gauss	event type not available	
			LHEP + EM option1 + DRay on+ KineLT	50 K	lhcb-gauss	event type not available	

## Software configuration for particle guns

Particle gun in calo acceptance event types			
Request 1: Two steps running Gauss Boole with Nominal settings			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia irrelevant	
	Configuration:	Beam energy	7 TeV irrelevant
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> irrelevant
		Tuning	Default
	Options for all jobs:	Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts	
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	Boole-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112	

Request 2: Two steps running Gauss Boole with Delta rays On, High thresholds			
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia <i>irrelevant</i>	
	Configuration:	Beam energy	7 TeV <i>irrelevant</i>
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> <i>irrelevant</i>
		Tuning	HT
	Options for all jobs:		Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts DraysOn-HT.opts
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	
	Request 3: Two steps running Gauss Boole with Delta rays On, Low thresholds		
Step 1	Gauss	v36r2	
	DecFiles	v16r1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Generator to be used	Pythia <i>irrelevant</i>	
	Configuration:	Beam energy	7 TeV <i>irrelevant</i>
		Velo	Closed
		Magnet polarity	Down
		Luminosity	2x10 <sup>32</sup> <i>irrelevant</i>
		Tuning	LT
	Options for all jobs:		Gauss-2008.py LHCbApp().DDDBtag = head-20090112 LHCbApp().CondDBtag = sim-20090112 Beam7TeV-VeloClosed-MagDown.py \$DECFILEROOT/options/EventType.opts DraysOn-LT.opts
Step 2	Boole	v17r2p1	
	Tag of DDDDB and SIMCOND	head-20090112, sim-20090112	
	Spillover	Off	
	Options for all jobs:	same as Request 1	

-- GloriaCorti - 16 Feb 2008

This topic: LHCb > SimulationRequests

Topic revision: r20 - 2009-03-03 - unknown



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.  
or Ideas, requests, problems regarding TWiki? use [Discourse](#) or [Send feedback](#)