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Nightly builds for Gauss

The different release candidates of Gauss and related projects or packages are built in the various slots of the nightlies.

Running from the nighlies

Instructions on how to run from the nightlies are available from the general nightlies documentation. Just replace `DaVinci` with `Gauss` and select the slot you want to use from the list above.

Checking the status of the nightlies

The current status of the LHCb nightly builds is available at http://cern.ch/lhcb-nightlies/cgi-bin/nightlies.py⬚. For more details refer to the corresponding section in the nightlies documentation.

Explanation of what is in the nightly slots

An explanation of what is in each slot for Gauss, Geant4 and DecFiles is given here

lhcb-branches: for tests of future release of DecFiles for MC11

This slot is to build and test future release of DecFiles for MC for 2011 data - Sim05, a.k.a as MC11. In this slot you will find the build of the latest released version of Gauss in the v41 series, v41r4. It uses a build in the same nighlty slot of the head revision of DecFiles. All new decay files added since the latest release in the **DecFiles v25rX** series are built and a qmtest is run to verify they can be used.

The following data/configuration packages are explicitely added to the Gauss nightly build to allow the pick them up in the tests:

- DecFiles HEAD
- AppConfig HEAD

lhcb-branches2: for tests of future release of DecFiles for early productions for 2012

This slot is to build and test future release of DecFiles for MC for early productions for 2012 data - Sim06. In this slot you will find the build of the latest released version of Gauss in the v42 series, v42r4. It uses a build in the same nighlty slot of the head revision of DecFiles. All new decay files added since the latest release in the **DecFiles v26rX** series are built and a qmtest is run to verify they can be used.

This version of Gauss has new generators and some features for the upgrade. However, it is based on the same default generators (pythia6 and evtgen versions) and Geant4 version as Gauss v41rX (Sim05). For this reason early productions for 2012 data, identified as Sim06, are partially compatible with Sim05.

The following data/configuration packages are explicitely added to the Gauss nightly build to allow the pick them up in the tests:

- DecFiles v26b

lhcb-patches: for tests of future released of Gauss and DecFiles for Sim08 - Massive productions for 2011 and 2012 data

This slot is to test new releases in the **Gauss v45rX** series and **DecFiles v28rX**. It currently has a preliminary build of **Gauss v45r1** and **DecFiles v27b**.

This version of Gauss uses new versions of Pythia6, newest version of EvtGen v13 and new generators. It also uses a newer version of Geant4 9.5.p02 and configurations. For this reason productions starting with **Gauss v45r1 and DecFiles v28r0 are referred to as Sim08**.

The following versions of external generators have been changed with respect to the v42 series:

Generator	Version in Gauss v41r4	Version in Gauss >= v45r1
pythia6	425.2	427.2
pythia8	153	175
lhapdf	5.8.5	5.8.8
photos	2.15.4	removed
photos++	N/A	3.52
tauola++	N/A	1.1.1a
alpgen	2.1.3d	2.1.4
herwig++	N/A	2.6.1a
thepeg	N/A	1.8.1
rivet	N/A	1.8.2
hijing	1.36.a.2	1.383bs.2

The following data/configuration packages are explicitely added to the Gauss nightly build to allow the pick them up in the tests:

- Sim/Gauss v45b
- DecFiles v27b

lhcb-prerelease: for tests of the next release of Gauss with new features for the Upgrade against the latest release of LHCb

This slot is to prepare the version of **Gauss v46r0** for the upgrade.

In this slot there is also Geant4 v95r2p1, picking up 9.5.p02 to pick new LHCb additions for G4 and Gauss uses it. To decouple from the newer EvtGen, that is kept as in the Gauss v42 (Sim06) series.

The following data/configuration packages are explicitly added to the **Gauss HEAD** nightly build to allow the pick them up in the tests, since the HEAD has a problem

- Sim/GiGa v20r0

lhcb-head: for tests of the next release of Gauss against the head revision of LHCb

This slot is to check all changes of Gauss against the latest changes in LHCb.

In this slot there is also Geant4 HEAD, to pick new LHCb additions for G4 and Gauss uses it.

The following data/configuration packages are explicitly added to the **Gauss HEAD** nightly build to allow the pick them up in the tests, since the HEAD has a problem

  - Sim/GiGa v20r0

gaudi-head

This slot is to prepare the check Gauss against the latest changes in Gaudi and LHCb

It uses the head of all Gauss packages and in this slot also Geant4 HEAD, picking up 9.5.p02 is built for Gauss to use it.

lcg-head

To test the head of Gauss against the new features of Gaudi and LCG

gauss-dev

This slot is to prepare the migration to the next version of HepMC and test future version of the LCG GeneratorsInterfaces packages. It requires a dedicated LCG nightly build. Currently this is not setup.

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