

# GENSER status

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GENSER SFT Team

November 29, 2017

# Team

GENSER team (~ 1 FTE) covering entire year by 2-3 months long shifts

**Funding:** 50% CERN, 50% Russian fund

SFT GENSER team has been providing this services successfully for the last ~10 years

# Generator Service

The Generator Service project purpose is to provide the following components for LHC community and experiments:

- installed MC generator libraries on CERN AFS and CVMFS
- simple testing of Monte Carlo generators
- validation and deployment of LHAPDF sets

All generators requested by experiments are part of official LCG release (central installation managed by Patricia)

BUT a life cycle of LCG releases is long enough and we are often requested to update existing LCG installation with newly released generator/tool (managed by GENSER)



# Generators

- Addition and testing of new generators and versions to LCG cmake infrastructure.
- Deployment of new version into existing LCG releases:

This year: 32 versions were added into existing LCG releases.

662 installations were performed (versions X releases X platforms)  
(not counting separate AFS/CVMFS installations)

# Testing

- generator tests run after each nightly build
- all generator are covered at least by a simple tests – compile simple code with the library and run it
- Due to migration to LCGTEST we have to revise all available test for generators.

**Testing started on 2015-10-17 13:03:49**

**Site Name:** lcgapp-slc6-physical1.cern.ch

**Build Name:** experimental-x86\_64-slc6-gcc48-opt

**Total time:** 3h 52m 47s 590ms

**OS Name:** Linux

**OS Platform:** x86\_64

**OS Release:** 2.6.32-504.23.4.el6.x86\_64

**OS Version:** #1 SMP Wed Jun 10 07:47:59 CEST 2015

**Compiler Version:** unknown

**311 tests passed.**

Name	Status	Time
gg2VV-3.1.7.native	Passed	9m 48s 730ms
debug-symbols-test	Passed	7m 2s 410ms
herwigpp-2.7.1.genser-LHC-W	Passed	6m 28s 590ms
sherpa-2.2.0.blackhat.genser-zjetsgenser-rivet	Passed	5m 28s 350ms
sherpa-2.2.0.genser-zjetsgenser-rivet	Passed	5m 25s 350ms
sherpa-2.1.1.native-LHC_ZJets	Passed	5m 12s 510ms
sherpa-2.1.1.genser-zjetsgenser-rivet	Passed	5m 1s 290ms
coral-tests	Passed	4m 4s 620ms
env-scripts-test	Passed	3m 55s 630ms

# Status and plans

- continue fulfilling requests from experiments and users for addition of new generators or/and versions
- migration to LCGTEST
- contribution to “lcgcmake” build system development to meet latest requirements (users and ours)