#### CSG meeting, Nov. 16th 2011

# FullSim Production November 2011

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#### **Outline**

- Production Work-flow
- November 2011 fullsim production

#### **Production Work-flow (I)**

Followed guide-lines proposed by Andrea Di Simone at the Elba SuperB meeting 2011

(http://agenda.infn.it/getFile.py/access? contribId=51&sessionId=65&resId=0&materiaIId=slides&confId=3352)

- Added to the SuperB wiki
  - Explanation these guide lines: Path to production
    (http://mailman.fe.infn.it/superbwiki/index.php/Path\_to\_production)
  - The implementation of the production work flow to be followed for each production. There will be a wiki-page for each production. The one corresponding to the current production can be look at the link below

November 2011 production:

http://mailman.fe.infn.it/superbwiki/index.php/November\_2011\_production

## **Production Work-flow (II)**

#### Software preparation:

#### Software preparation

[edit]

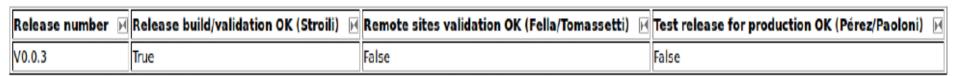
Summary				BrnGeoMag OK (Pérez)		BrnPID OK (Di Simone/Roberts)	BrnRunTime OK (Pérez)	BrnCore OK (Pérez/Di Simone/Paoloni)	BrnApp OK (Pérez/Di Simone/Paoloni)	Packages assembling OK (Pérez/Di Simone/Paoloni)
Tag	V00-00-02	V00-00-02	V00-00-01	V00-00-02	V00-00-01	V00-00-01	V00-00-03	V00-00-03	V00-00-02	ок
Software quality OK	True	True	True	True	True	True	True	True	True	True

Before the creation of a new FullSim release the software need to be tested and fixed. There is a responsible for every BRN package that needs to create a new tag for production and sign-off on the code quality

# **Production Work-flow (III)**

#### Release validation:

## Release validation



Once the tag for the different BRN packaged have being created, we proceed to build a new release.

- Release build/validation: Roberto Stroili
- Remote sites validation: Armando Fella/Luca Tomassetti
- Checkout/validation of the test release to be used for production:
  Pérez/Paoloni

[edit]

## **Production Work-flow (IV)**

#### Production requests:

#### **Production requests**

[edit]

<b>Geometry</b> ⋈	Generator ⋈	N. Events	N. Jobs	Event/job	Time/Job (hours) ⋈	Size/job (GB) ⋈	Total Size (TB) ⋈	Pre-approval (Pérez/Paoloni) 🗵
Geometry_CIPE_V00-00-02_PWO	Rad-BhaBha	10k	1k	10	~4	1.3	1.3	True
Geometry_CIPE_V00-00-02_PWO	netry_CIPE_V00-00-02_PWO Pairs		340	300	~2	1.3	0.5	True
Geometry_CIPE_V00-00-02_PWO	Touschek	XXX	XXX	200	xxx	XXX	XXX	False
Geometry CIPE V00-00-02 ShorterFF5mts	Rad-BhaBha FastSim bg-frames	1M	xxx	xxx	xxx	xxx	xxx	False

Production request are written in a table. It needs to be specified,

- Geometry
- Generator
- Estimation of: N. events, N. jobs, N. events/job, Time/job, Size/job, Total
  Size

The production request needs to be pre-approved: Pérez/Paoloni

# **Production Work-flow (V)**

#### Pre-production:

#### Pre-production

Geometry	Generator 🖂	N. Events	N. jobs ⊮	Events/Job	Time/Job	Disk-space/Job (GB) ⋈	Run time OK	Physics Results OK	Final Sign-off (Pérez/Paoloni) 🗵
Geometry_CIPE_V00-00-02_PWO	Rad-BhaBha	1k	100	10	-4	1.3	XXX	XXX	xxx
Geometry_CIPE_V00-00-02_PWO	Pairs	10k	34	300	~2	1.3	XXX	XXX	xxx
Geometry_CIPE_V00-00-02_PWO	Touschek	XXX	XXX	200	XXX	XXX	XXX	XXX	xxx
IGeometry CIPE V00-00-02 ShorterFF5mts	Rad-BhaBha FastSim bg-frames	100k	xxx	xxx	xxx	xxx	xxx	xxx	xxx

For all the pre-approved requests we will launch a pre-production of ~10% of all the total requested events. It need to be tested,

- Time/job, Size/job
- Physics results

If all tests give satisfactory results the request will receive a final sign-off (Pérez/Paoloni) and we will proceed with the full production

# Nov. 2011 FullSim production: Requests

- Rad-bhabha with new Stefano Fwd-EMC geometry (Geometry\_CIPE\_V00-00-02\_PWO).
  - N. Events ~10k.
  - Execution time ~10 hours (1 day being pessimistic).
  - Total disk space ~1.3T
- Pairs (2-photon).
  - N. Events: ~100k
  - Execution time: ~10 hours (1 day being pessimistic)
  - Total disk space: ~500G.
- Touschek.
  - N. Events: Need to be decided.
  - Execution time: ~10 hours (1 day being pessimistic)
  - Total disk space: ~2.0T.
- Rad-bhabha bg-frames for fast-sim:
  - N Events ~1M.
  - Execution time ~50 hours (100 hours being pessimistic, i.e. 3 or 4 days).
  - Total disk space: needs to be estimated (Expects < 100G)</p>

## Nov. 2011 FullSim production: Status

#### Status:

- Code have been frozen: list of tags
- Production FullSim release built: V0.0.3
- Checked out test release for production
- Launched test jobs for all the production requests,
  - Rad-bhabha and pairs: test jobs finished OK
  - Rad-bhabha bg-frames:
    - test jobs crashed.
    - Andrea just fixed bug.
    - Andrea's fix is being tested.
- Question to Roberto Stroili: Andrea's fix needs a new list of tags some packages. Is there a simple way of implementing this without building a new release?
- Next steps:
  - Will re-evaluate the time-schedule for production
  - Launch pre-production for all the requests.
  - > Full production.

