

# WEB UI

Status and FullSim integration

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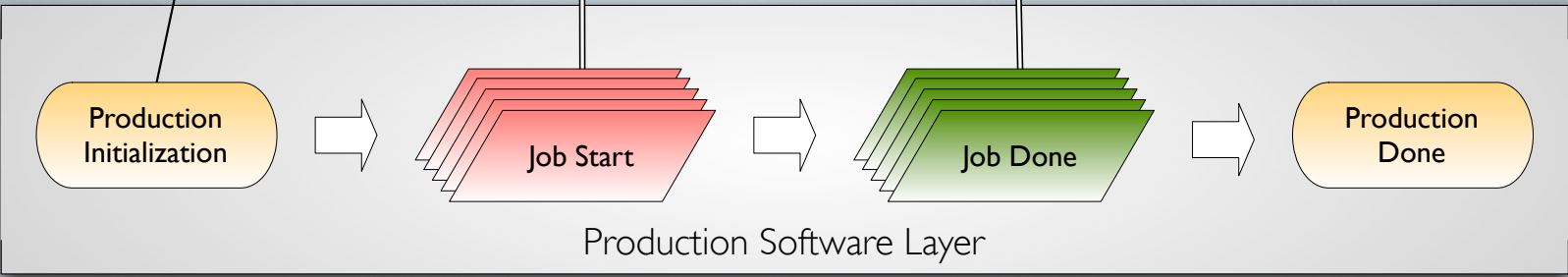
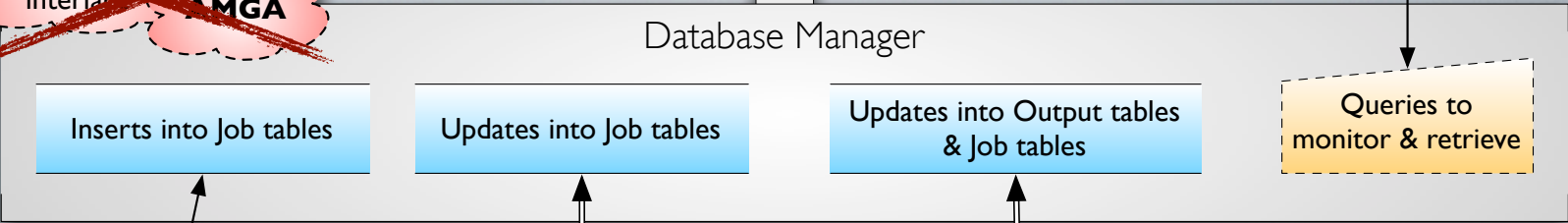
# WEB INTERFACE

- sbk Database deployed @CNAF [MySQL]
- Web UI, FastSim only [PHP, BASH scripts, AJAX]
- Job preparation [db Initialization]  
production, multi-bunches [DG, generator, #runs, #events]
- Job Submission [batch system]  
manual launch [CNAF farm only]
- Provided for the November production [ALPHA status]  
keeping in mind future developments

Direct PHP via AJAX connection



~~RESTful interface MGA~~



# WORKFLOW

Fast Simulation – Production WebUI

## Production Initialization and Submission

### PRODUCTION FORM

#### Production Data

Production Series:

[Create new Production](#)

Data taken from database

Production Series:	<b>2009_November</b>
Production root:	<b>/storage/gpfs_babar6/sb/prod/</b>
Fast TAG:	<b>V0.1.2</b>
ARCH:	<b>Linux26SL4_i386_gcc346</b>
Release working Directory:	<b>/home/BABAR/brownd/SuperB/FastSim/V0.1.2_prod/workdir/</b>

Minimum Run Number:

Software Revision:

[Create new Revision](#)

# PROD INIT & SUBMISSION

Pull-down menu with Productions, New Productions,  
New Software Releases

Job Details

# of Runs:	<input type="text" value="500"/>	# of Events (per job):	<input type="text" value="100000"/>	Generator:	<input type="text" value="ccbar"/>	Geometry:	<input type="text" value="DG_1"/>	
# of Runs:	<input type="text" value="500"/>	# of Events (per job):	<input type="text" value="100000"/>	Generator:	<input type="text" value="ccbar"/>	Geometry:	<input type="text" value="DG_4"/>	<input type="button" value="[-]"/>
# of Runs:	<input type="text" value="1000"/>	# of Events (per job):	<input type="text" value="100000"/>	Generator:	<input type="text" value="B+B-_SL"/>	Geometry:	<input type="text" value="DG_1"/>	<input type="button" value="[-]"/> <input type="button" value="[+]"/>

FullSim requires more fields. Moreover additional fields depend on the chosen generator.  
The job details form will be dynamically generated. [RadBhaBha + singleparticle only?]

Geometry is specified by a master gdml file

We need the list of gdml files (to be inserted into the database)

flag -f (output for fast or “full” FullSim)

# JOBS BUNCHES

## SUMMARY

The UI will launch **3** set(s) of jobs (a total of **2000** jobs, **200000000** events) for the Production **2009\_November** with the following parameters:

PRODUCTION DATA - SUMMARY	
Production Series:	<b>2009_November</b>
Production root:	<b>/storage/gpfs_babar6/sb/prod/</b>
Fast TAG:	<b>V0.1.2</b>
ARCH:	<b>Linux26SL4_i386_gcc346</b>
Release working Directory:	<b>/home/BABAR/brownd/SuperB/FastSim/V0.1.2_prod/workdir/</b>
Revision:	<b>179</b>

JOBS DATA - SUMMARY						
Set	Number of Jobs	First RUNNUM	Last RUNNUM	Number of Events	Generator	Geometry
1	500	36310	36809	50000000 (100000 ea.)	ccbar	DG_1
/storage/gpfs_babar6/sb/prod/2009_November/FastSim/DG_1/ccbar/[36310...36809]/						
2	500	36810	37309	50000000 (100000 ea.)	ccbar	DG_4
/storage/gpfs_babar6/sb/prod/2009_November/FastSim/DG_4/ccbar/[36810...37309]/						
3	1000	37310	38309	100000000 (100000 ea.)	B+B-_SL	DG_1
/storage/gpfs_babar6/sb/prod/2009_November/FastSim/DG_1/B+B-_SL/[37310...38309]/						
<b>3</b>	<b>2000</b>			<b>200000000</b>		

General path to output files: [PRODROOT]/[PRODSERIES]/[PRODTYPE]/[GEOMETRY]/[GENERATOR]/[RUNNUM]

General path to log files: [PRODROOT]/[PRODSERIES]/[PRODTYPE]/[GEOMETRY]/[GENERATOR]/log/[RUNNUM].log

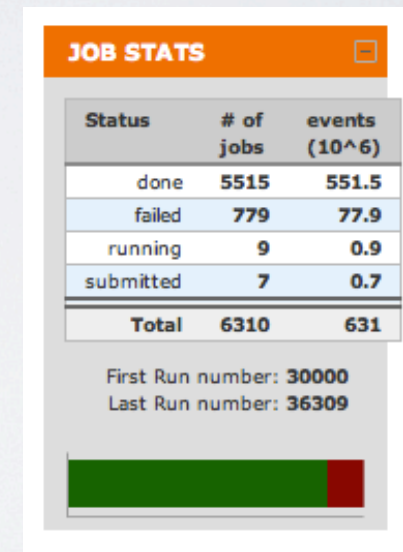
Please, double check the summary.

Use the form above to modify the data and generate a new summary or continue the submission.

# JOBS SUMMARY

# JOB SUBMISSION


- Web Interface inserts jobs data into database and prepares the jobs scripts to be launched @CNAF
- Production Manager should manually launch just one script
- Basic monitor



**JOB STATS**

Status	# of jobs	events (10 <sup>6</sup> )
done	5515	551.5
failed	779	77.9
running	9	0.9
submitted	7	0.7
<b>Total</b>	<b>6310</b>	<b>631</b>

First Run number: 30000  
Last Run number: 36309



# Production Monitor

## PRODUCTION SERIES

Production Series:

Data taken from database

Production Series:	2009_November
Production root:	/storage/gpfs_babar6/sb/prod/
Fast TAG:	V0.1.2
ARCH:	Linux26SL4_i386_gcc346
Release working Directory:	/home/BABAR/brownd/SuperB/FastSim/V0.1.2_prod/workdir/

## JOBS DATA

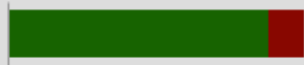
Runnum start end	# of events		Geometry	Soft release	Job Status	Grid Status	Grid Job Id
<input type="text" value="30000"/>			<input type="text" value="DG_1"/>	<input type="text" value="ALL"/>	<input type="text" value="done"/>	<input type="text" value="ALL"/>	<input type="button" value="show"/>
<input type="text" value="36309"/>							
10 jobs found matching the search criteria.							
36280	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		2183764
36281	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		2183765
36282	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		2183766
36283	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		
36284	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		
36285	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		
36286	100000	B+B-_taunu_DX	DG_1	V0.1.2 179	done		

- ALL
- BOB0bar\_generic
- B+B-\_generic
- ccbar
- uds
- ✓ B+B-\_taunu\_DX

### JOB STATS

Status	# of jobs	events (10^6)
done	5515	551.5
failed	779	77.9
running	9	0.9
submitted	7	0.7
<b>Total</b>	<b>6310</b>	<b>631</b>

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# MONITOR

# STATUS

- It worked [well] for FastSim!
- Successful scripts generation with proper parameters
- Successful job execution [started by the user]
- Automatic database updates with status & outputs & logs
- **FullSim extension will be ready before 2009 ends**
- We hope to test it with **real** FullSim jobs between Dec, 27th and Jan, 5th
- It will be used for January production of BG frames