Small Scale Production Tools Simplifying Private Productions

Johannes Ebke

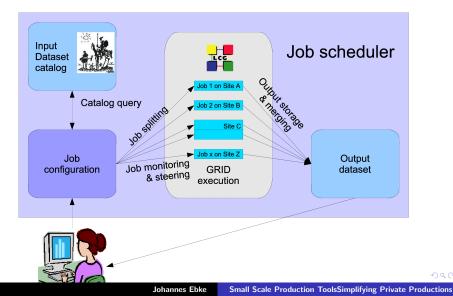
18. April 2007

Johannes Ebke Small Scale Production ToolsSimplifying Private Productions

- 4 回 2 - 4 □ 2 - 4 □

GANGA Monte Carlo Production with GANGA

Workflow with GANGA



GANGA Monte Carlo Production with GANGA

Monte-Carlo simulation

Small-Scale Production of 50000 additional Monte-Carlo events using the official ATLAS package:

Event generation - 5 jobs

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GANGA Monte Carlo Production with GANGA

Monte-Carlo simulation

Small-Scale Production of 50000 additional Monte-Carlo events using the official ATLAS package:

- Event generation 5 jobs
- GEANT4 Simulation 1000 jobs

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GANGA Monte Carlo Production with GANGA

Monte-Carlo simulation

Small-Scale Production of 50000 additional Monte-Carlo events using the official ATLAS package:

- Event generation 5 jobs
- GEANT4 Simulation 1000 jobs
- Event Reconstruction 50 jobs

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Introducing Small Production Tools for GANGA Goals Statistics

Introducing Small Production Tools for GANGA

Producing a sample of 50000 events of the Higgs-WW process (official request number 6315):

 p = MCProduction(name="myproduction", processnumber=6315, numberevents=50000)

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Introducing Small Production Tools for GANGA Goals Statistics

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Producing a sample of 50000 events of the Higgs-WW process (official request number 6315):

- p = MCProduction(name="myproduction", processnumber=6315, numberevents=50000)
- p.submit()

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Introducing Small Production Tools for GANGA Goals Statistics

Introducing Small Production Tools for GANGA

Producing a sample of 50000 events of the Higgs-WW process (official request number 6315):

- p = MCProduction(name="myproduction", processnumber=6315, numberevents=50000)
- p.submit()
- productions.start()

Introducing Small Production Tools for GANGA Goals Statistics

Goals of development

Allow simple, hands-off managing of a small production
 The system should handle resubmission in cases of site, stagein or stageout failures

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Introducing Small Production Tools for GANGA Goals Statistics

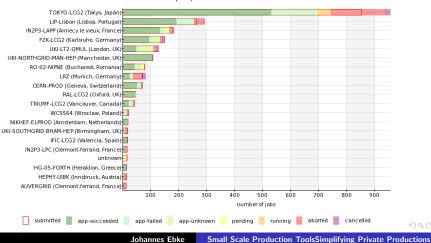
Goals of development

- Allow simple, hands-off managing of a small production
 The system should handle resubmission in cases of site, stagein or stageout failures
- Stay extendable for programmers, so that it can eventually also be used for other tasks

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Introducing Small Production Tools for GANGA Goals Statistics

Statistics on jobs submitted with SPTools (11.April-11.June)



jobs per site

Introducing Small Production Tools for GANGA Goals Statistics

Statistics on jobs submitted with SPTools (11.April-11.June)

	current status				grid exit status				application exit status		overall			
site	Sub↑	Unk	Pend	Run	Term	Done	Canc	Abort	Unk	Grid%Succ	Fail	Unk	App%D/S	Overall%
TOKYO-LCG2 (Tokyo, Japan)	854	0	Z	49	798	571	16	197	14	74.35 <u>532</u>	157	109	77.21 509	63.78 🔺
LIP-Lisbon (Lisboa, Portugal)	264	0	0	3	261	99	2	34	126	74.44 192	62	Z	75.59 83	31.8
IN2P3-LAPP (Annecy le vieux, France)	181	0	10	0	171	146	1	13	11	91.82 133	Z	31	95 <u>121</u>	70.76
FZK-LCG2 (Karlsruhe, Germany)	151	0	0	0	151	127	9	8	Z	94.07 <u>95</u>	11	45	89.62 <u>88</u>	58.28
UKI-LT2-QMUL (London, UK)	128	0	0	Q	128	111	Z	10	Q	91.74 <u>47</u>	11	70	81.03 <u>47</u>	36.72
UKI-NORTHGRID-MAN-HEP (Manchester, UK)	108	Q	Q	Q	108	105	Q	1	2	99.06 <u>107</u>	Q	1	100 <u>105</u>	97.22
RO-02-NIPNE (Bucharest, Romania)	79	0	13	0	66	42	0	1	23	97.67 42	23	1	64.62 20	30.3
LRZ (Munich, Germany)	73	0	0	1	72	26	12	31	3	45.61 25	13	34	65.79 21	29.17
CERNI REOD (Capava Switzerland)	2489	0	44	86	2359	1584	67	413	295	79.32 1495	446	418	77.02 1245	52.78

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Keeping the overview

Done: '-' ; Running the nth time: '1'-'9' and '+' ; Attempted: ':' ; Not ready: ',' ; Ready '.' EVGEN:
SIMUL:
3-33341-521111-2-21:24-232-3234333-3223-233-2233-22
RFCN:

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