

# PRODUCTION STATUS

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ON BEHALF OF THE COMPUTING GROUP

# OUTLINE

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- 2010 Productions
  - February [FULL + FAST]
  - July, August, September [FAST]
  - October, November [FAST - “personal”]
  - December [FULL]
- 2011 Plans & To Do List

# FULL PRODUCTIONS

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- January 2010
  - Bkg Frames:  $1 \times 10^6$  evt. used by FastSim
  - Bkg Studies:  $8 \times 10^5$  evt. different PL, Params
- June 2010
  - Bkg Frames:  $1 \times 10^6$  evt. used by FastSim
- December 2010
  - Bkg Studies:  $9 \times 10^5$  evt. improved simulation  
see E. Paoloni talks
- FullSim can run @CNAF only at the moment

# FAST PRODUCTIONS

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- February 2010

Done:	20 Kjobs	$1.7 \times 10^9$ evt.
WCT:	591 451 996 s	or about 20 yr

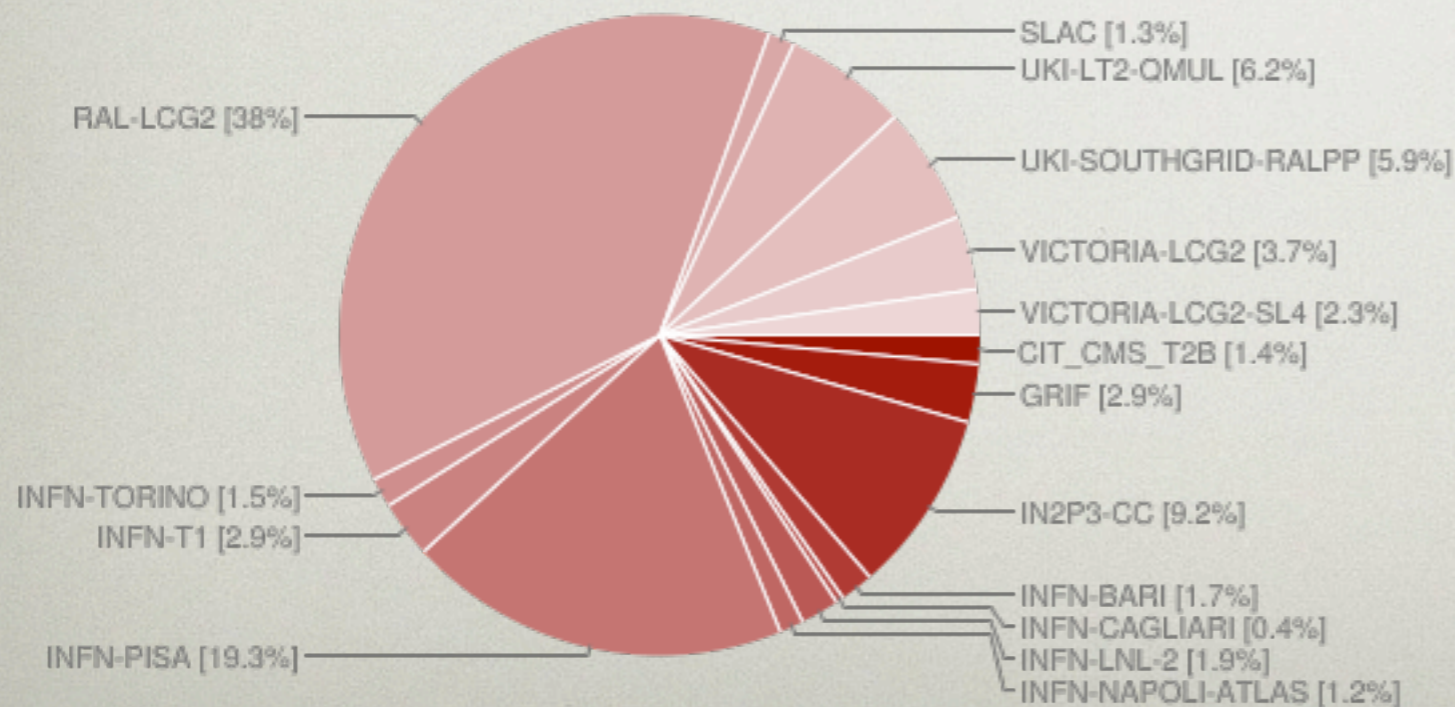
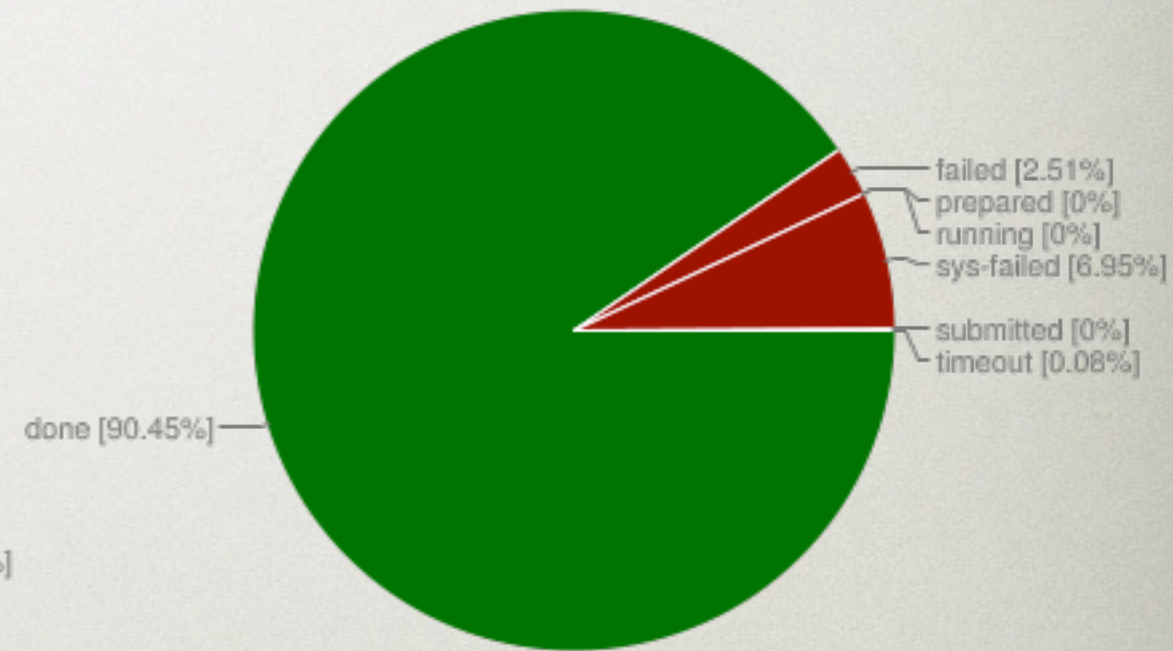
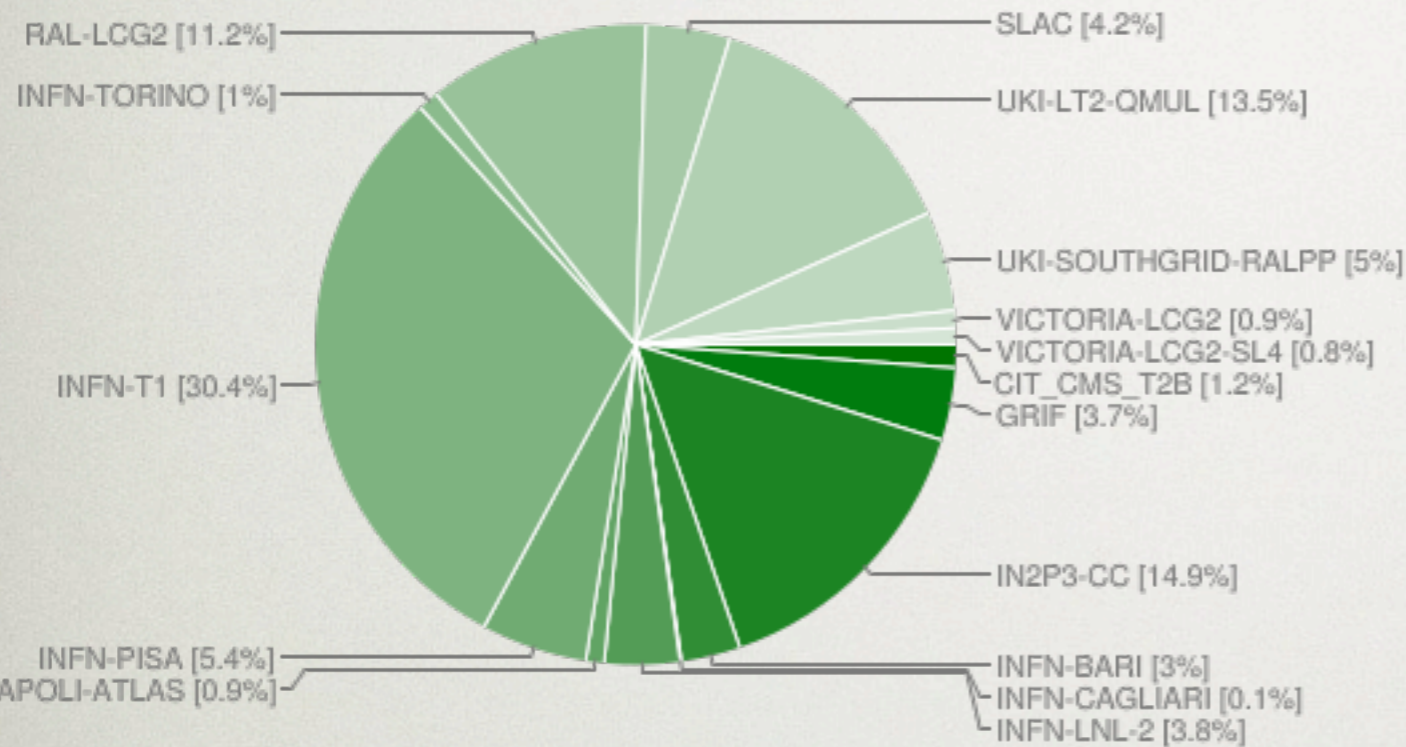
- Summer 2010

Done:	177 Kjobs	$11.4 \times 10^9$ evt.
Failures:	15 Kjobs	
	about 8% (grid, site issues)	

Total WCT:	6 132 596 994 s	(~194 yr)
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FastSim can run at remote sites via Grid

# FASTSIM SUMMMER PRODUCTION



# FASTSIM CHARM PRODUCTION

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- Personal Production without the production tools
- **See Kosta presentation later**
- Backgrounds to 8 rare charm decay modes have been generated
- 2 months long production @CNAF only
- $10^9$  evt. per generator (uds, ccbar, Y4S)
  - 1/6 of the requested events for the DstD0ToXLL analysis

# FULLSIM IFR PRODUCTION

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- Personal Production with the production tools
- RadBhabha, pions and muons
- a couple of weeks spread over the year @CNAF only
- some  $10^6$  evt. to refine geometry issues

# PRODUCTION TOOLS

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- Production Tools worked properly
  - Interface for shiffters
  - Improvements in DB, Tools, WebUI
- Remote Sites fully exploited:  
15 sites (EGEE, OSG, WestGrid)
- Unique job preparation point both for FullSim and FastSim



# PRODUCTION TOOLS

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- Simplified job preparation
- Management of user's requests and validation by production manager
- Selection of jobs to be submitted based on requests
- Automatic preparation of scripts to launch jobs to ALL available sites
- Sensor(s) to determine working and available sites
- 'Single-User', 'Single-script' submission to the GRID

*FastSim only. Upgrade for FullSim needed*

# WEBUI FOR SHIFTS

**PRODUCTION FORM**

General Submit

Production Series:   to checked sites Show  requests

show/hide details

**JOB DETAILS (REQUESTS)**

S	Analysis	Job Parameters	Graph Pending - Running - Failed - Done [TOT]	events per job	jobs d/nf/r	events d/nf/r
<input type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4</li> <li>B0B0bar_Btag-HD_Cocktail</li> <li>Bkg_NoPair.tcl</li> </ul>		80000	3 959 (93.6%) 4 243 (100.3%) 4 230	316 720 000 (93.6%) 339 440 000 (100.3%) 338 400 000
<input type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4</li> <li>B+B-_Btag-HD_Cocktail</li> <li>Bkg_NoPair.tcl</li> </ul>		80000	4 765 (89.7%) 5 344 (100.6%) 5 310	381 200 000 (89.7%) 427 520 000 (100.6%) 424 800 000
<input type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4a</li> <li>B0B0bar_Btag-HD_Cocktail</li> <li>Bkg_NoPair.tcl</li> </ul>		80000	2 226 (94.7%) 2 354 (100.2%) 2 350	178 080 000 (94.7%) 188 320 000 (100.2%) 188 000 000
<input checked="" type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4a</li> <li>B+B-_Btag-HD_Cocktail</li> <li>Bkg_NoPair.tcl</li> </ul>		80000	2 273 (77.1%) 2 458 (83.3%) 2 950	181 840 000 (77.1%) 196 640 000 (83.3%) 236 000 000
<input type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4</li> <li>B0B0bar_Btag-HD_Cocktail</li> <li>Bkg.tcl [V0.2.5 311]</li> </ul>		50000	531 (56.5%) 964 (102.6%) 940	26 550 000 (56.5%) 48 200 000 (102.6%) 47 000 000
<input type="checkbox"/>	HadRecoilCocktail	<ul style="list-style-type: none"> <li>DG_4</li> <li>B+B-_Btag-HD_Cocktail</li> <li>Bkg.tcl [V0.2.5 311]</li> </ul>		50000	716 (60.7%) 1 175 (99.6%) 1 180	35 800 000 (60.7%) 59 050 000 (100.1%) 59 000 000

# WEBUI FOR SHIFTS

<input type="checkbox"/>	GRIF	2010-09-26 05:55:42 [16:02:51]	2010-09-25 15:38:50 [30:19:43]	 45 - 0 - 164 - 3041 [3250]	35-0-0-15 [30] [10] [551]	 [50]	Test
<input type="checkbox"/>	IN2P3-CC	2010-09-26 21:58:32 [00:00:01]	2010-09-26 11:26:17 [10:32:16]	 86 - 214 - 309 - 4691 [5300]	66-11-1-22 [50] [10] [700]	 [100]	Test
<input type="checkbox"/>	INFN-BARI	2010-09-26 21:29:41 [00:28:52]	2010-09-26 21:18:06 [00:40:27]	 57 - 101 - 89 - 1353 [1600]	50-0-0-0 [30] [10] [300]	 [50]	Test
<input checked="" type="checkbox"/>	INFN-CAGLIARI	2010-09-26 21:39:48 [00:18:45]	2010-09-25 17:14:56 [28:43:37]	 1 - 4 - 38 - 37 [80]	1-4-0-5 [5] [3] [300]	 [10]	Submit Test
<input type="checkbox"/>	INFN-LNL-2	2010-09-26 17:15:43 [04:42:50]	2010-09-26 09:07:43 [12:50:50]	 50 - 5 - 174 - 1950 [2179]	50-0-0-0 [30] [10] [500]	 [50]	Test
<input type="checkbox"/>	INFN-NAPOLI-ATLAS	2010-09-26 21:36:11 [00:22:22]	2010-09-26 18:54:03 [03:04:30]	 53 - 17 - 46 - 159 [275]	43-0-7-0 [30] [10] [300]	 [50]	Test
<input type="checkbox"/>	INFN-PISA	2010-09-26 21:58:32 [00:00:01]	2010-09-26 20:08:41 [01:49:52]	 147 - 422 - 465 - 3166 [4200]	58-37-5-0 [50] [10] [1000]	 [100]	Test
<input checked="" type="checkbox"/>	INFN-T1	2010-09-26 21:58:32 [00:00:01]	2010-09-26 19:19:40 [02:38:53]	 12 - 628 - 240 - 13240 [14120]	0-100-0-0 [150] [10] [900]	 [100]	Submit Test
<input checked="" type="checkbox"/>	INFN-TORINO	2010-09-26 21:13:06 [00:45:27]	2010-09-26 18:59:18 [02:59:15]	 29 - 70 - 86 - 590 [775]	29-21-0-0 [30] [10] [300]	 [50]	Submit Test
<input checked="" type="checkbox"/>	RAL-LCG2	2010-09-26 21:56:30 [00:02:03]	2010-09-26 11:36:32 [10:22:01]	 0 - 534 - 2406 - 4880 [7820]	0-99-1-0 [30] [10] [800]	 [100]	Submit Test
<input type="checkbox"/>	SLAC	2010-09-26 21:54:59 [00:03:34]	2010-09-26 12:45:11 [09:13:22]	 32 - 160 - 62 - 1796 [2050]	32-68-0-0 [50] [10] [150]	 [100]	OVERLOAD Test
<input checked="" type="checkbox"/>	UKI-LT2-QMUL	2010-09-26 21:58:33 [00:00:00]	2010-09-26 21:17:11 [00:41:22]	 0 - 818 - 185 - 4907 [5910]	0-100-0-0 [50] [10] [950]	 [100]	Submit Test

# FUTURE PLANS

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- What are the requirements for the 2011 FullSim Productions?  $2x, 5x, \dots$ ; *schedule*
- FullSim porting to the Grid?
- What are the requirements for the 2011 FastSim Productions?  $2x, 5x, \dots$ ; *schedule*

# To Do List

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- FastSim Pre-Production Operations:
  - Validation of user-code
  - Validation of core-code
- Release path (devel, pre- & production)
- Production Tools upgrade?