MC Production Status

ADC Weekly
30 October 2012

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MC12 status (excluding Frontier reruns)

- G4 status (excluding 40M/4M single particles: 100%/100% done)

Priority	Fullsim requested; % done	AF-II requested; % done
0	908M requested; 100% done	431M requested; 100% done
1	484M requested; 100% done	266M requested; 99% done
2	67M requested; 65% done	115M requested; 100% done
3	245M requested; 99% done	112M requested; 88% done
Total	1704M requested; **98% done**	924M requested; **98% done**

- Digi+Reco (excluding 40M/4M single particles: 100%/100% done)

Priority	Fullsim requested; % done	AF-II requested; % done
0	805M requested; 97% done	502M requested; 87% done
1	496M requested; 90% done	271M requested; 96% done
2	93M requested; 66% done	115M requested; 99% done
3	260M requested; 83% done	112M requested; 43% done
Total	1653M requested; **91% done**	999M requested; **86% done**

Pileup Backlog

- Due to problems with TAPE in the DE cloud we looked in more detail at the pileup rate and not finished tasks
- From Rod: http://atladcops.cern.ch:8000/j_info/mc12_pile.html

Min taskid: 900000
status='RUNNING' and tasktype='pile'
618 tasks
370605 Jobs left(including unassigned tasks)
Generated on Tue Oct 30 13:45:03 2012 (CERN) [previous reports]

date	ALL	CA	CERN	DE	ES	FR	IT	ND	NL	TW	UK	US	Unassigned
12-10-25	28713	3692	0	2538	8709	5231	1233	1394	692	1254	9	3961	0
12-10-26	19708	322	0	3589	5430	1599	74	365	157	20	6	8146	0
12-10-27	9995	34	2	3319	2806	1038	75	77	2	1	590	2051	0
12-10-28	18768	6	8	3712	703	1312	26	7	1122	2	11809	61	0
12-10-29	24275	206	79	4833	1155	809	292	18	6018	12	10817	36	0
12-10-30	12548	0	121	2168	4243	81	2037	762	1554	1	1555	26	0
total done	226575	16792	5782	34235	36067	28409	7238	12681	9823	15537	25478	34533	0
total jobs	384493	26472	5851	78608	45117	30340	14672	19216	36060	22060	50036	55086	975
% done	58.9	63.4	98.8	43.6	79.9	93.6	49.3	66.0	27.2	70.4	50.9	62.7	0.0
aborted	5	0	0	0	1	1	0	1	0	0	0	2	0
% aborted	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
jobs left	157913	9680	69	44373	9049	1930	7434	6534	26237	6523	24558	20551	975
% left	41.1	36.6	1.2	56.4	20.1	6.4	50.7	34.0	72.8	29.6	49.1	37.3	100.0
running	23394	1218	35	2567	6308	42	7253	3321	406	1207	1030	7	0
days left	-	6	0	59	8	1	9	9	48	5	14	7	-

Pileup Backlog

- Jobs to be done: ~157k
- CA, CERN, ES, FR, IT, ND, TW, US clouds all okay
  - hardly any backlog
  - besides a few outliers only defined(!) tasks from the last 10-15 days
  - need to look at a few tasks in ND cloud
  - partial effect of smaller tasks and early start of pileup jobs
- UK:
  - **backlog now at 24k jobs**
  - raise priority of older pileup jobs to 850, set normal RAL queue to test, RAL high memory queue to evgensimul:0%
  - ~10k/d over the weekend; half done by UK T2s
  - currently ~3k/d → **14 days of backlog**
- NL:
  - **backlog of 26k jobs**
  - raise priority to 850 of some jobs → moderate rate of ~5k/d over the weekend, but now more like 2.5-3k/d → **48 days of backlog**

Pileup Backlog

- DE:
  - problems with TAPE performance for a long time
  - problems with some DISK only pools (now some files lost) is not helping!
  - **44K jobs left to do**
  - raise priority to 850 for older/urgent tasks but essentially everything is in 700 or higher as tasks go back to begin of September
  - set FZK queue: to evgensimul:0% in schedconf
  - UNI-FREIBURG as pileup only site
  - rate of 5k/d → **59 days of backlog → needs to be further increased**

Pileup Backlog

- more pileup jobs in queues:
  - raise priority to 850
  - looks like the only way to get more pileup jobs into bamboo, other wise group production seems to get much more jobs into bamboo
  - is this a system feature or a bug?
  - this prevents clouds to get new tasks
  - is evgensimul:0% the better way to go?
  - maybe only a problem when serious backlog?
- backlog in DE, UK and NL needs to be reduce as much as possible before reprocessing starts
- even better utilisation of T2s
  - put merged HITS automatically at T2 sites?