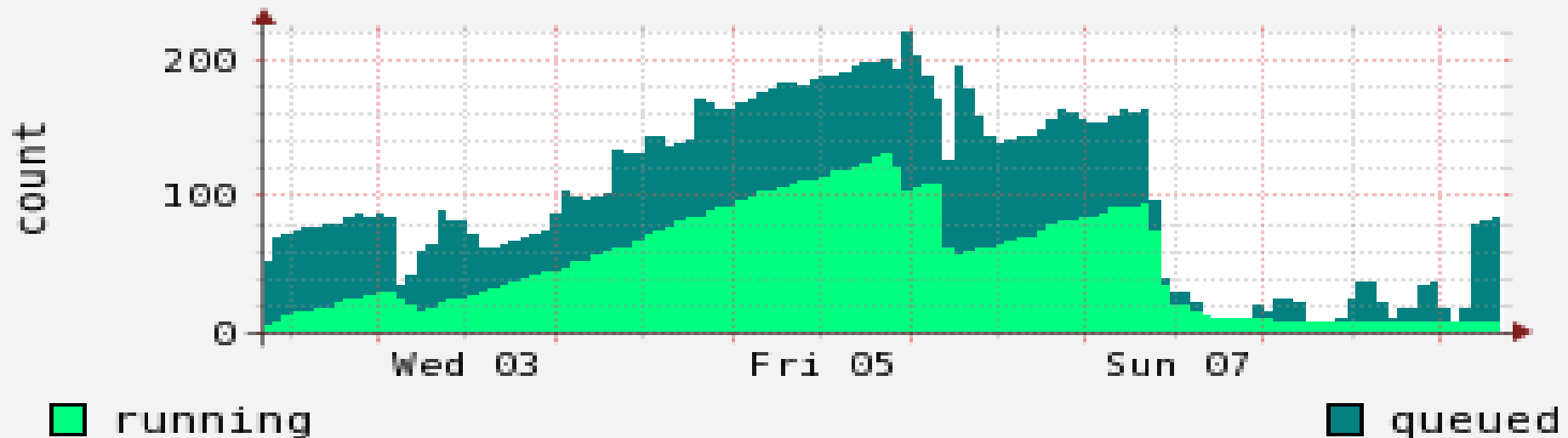


GridKa Multicore Job Status

Manfred Alef, Thomas Hartmann

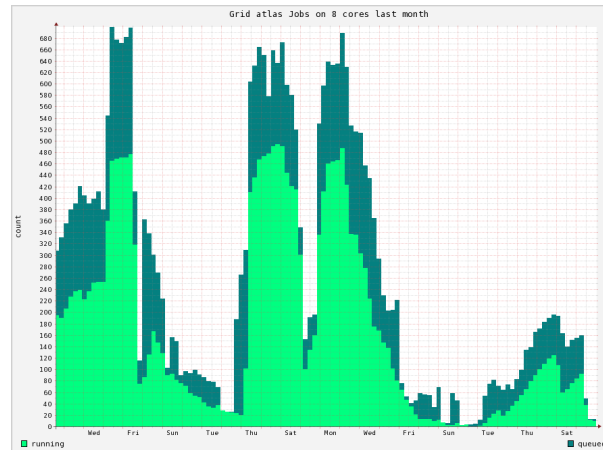
STEINBUCH CENTRE FOR COMPUTING – SCC



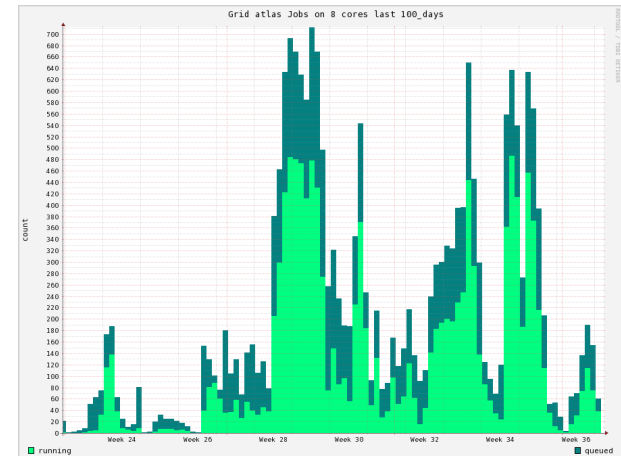
Multicore Job Rate

ATLAS

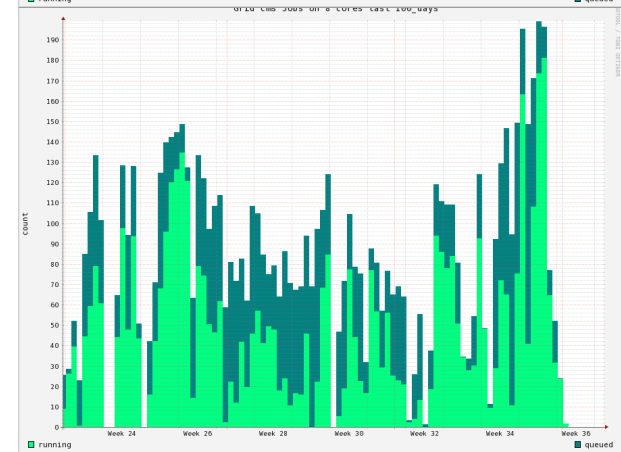
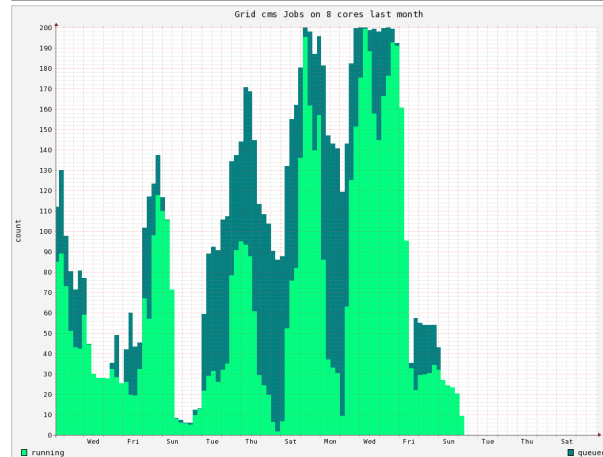
last month



last 100d



CMS



Multicore Job Rate

- Job inflow still in waves
 - CMS also with see-saw pattern as ATLAS
 - Phase shifted between both to some extent

Atlas Multicore Job Efficiency

Job statistics:

All jobs:								
Project	Queued jobs (or JAT's)	Running jobs	Allocated slots		Nominal share		Normalized tickets	Average CPU efficiency
Atlas-Prod	212	2905	2961	23 %	25 %	31900 HS06	0.00016	84 %
Total	586	12661	12717	100 %	-	-	-	∅ 87 %
Running multi-core jobs:								
Project		Running jobs	Allocated slots		Nominal share		Normalized tickets	Average CPU efficiency
Atlas-Prod		8	64	1 %	25 %	31900 HS06	0.00016	8 %
Total		8	64	1 %	-	-	-	∅ 8 %
Time of measurement: 2014-09-09 07:54 +0200								

Atlas Multicore Job Efficiency

- expecting high efficiency for simu jobs
- job efficiency near zero for some jobs
 - seen empty pilots
 - no payload attached
 - idling on the node
 - currently sim jobs running for ~3d
 - failing in the end waiting for subprocess
 - e.g., finally failed jobs [1], [2]
 - still running [3]
- **price** of failing/misconfigured/zombie jobs scaling by n_{cores}

[1] <http://bigpanda.cern.ch/job?batchid=7623259>
[2] <http://bigpanda.cern.ch/job?batchid=7634074>
[3] <http://bigpanda.cern.ch/job?batchid=7658164>