

A decorative graphic on the left side of the slide, consisting of several white lines of varying thicknesses that form a vertical, abstract shape resembling a stylized letter 'N' or a series of connected loops.

# **NDGF Site Report**

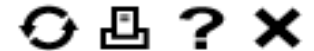
Mattias Wadenstein  
Hepix 2011 Spring Meeting  
2011-05-03, Darmstadt



- NDGF interim organisation, same as previous years
  - Project hosted by NorduNet A/S
- Should become own legal entity
  - Paperwork, acts of parliament, blahblah, etc
- NDGF now smaller than previously
  - Less development, ARC mostly in EMI
    - Release of ARC 1.0 ~now!
  - Most operations folded into EGI/NGI stuff

## ATLAS Grid Monitor

2011-05-02 CEST 11:02:44



Processes: ■ Grid ■ Local

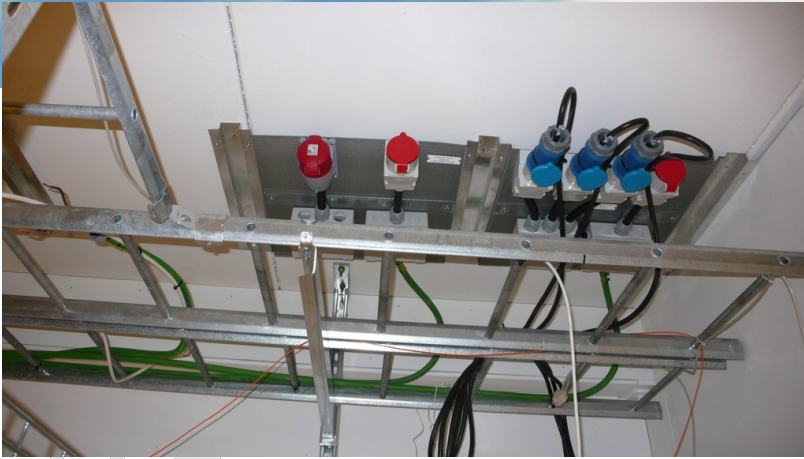
Country	Site	CPUs	Load (processes: Grid+local)	Queueing
Denmark	Steno Tier 1 (DCSC/KU)	3616	<span style="color: red;">■</span> 524+1969 <span style="color: gray;">■</span>	1104+0
	Tier1 (BCCS/UiB)	364	<span style="color: gray;">■</span> 0+360	0+18
Norway	Titan A (UiO/USIT)	4644	<span style="color: red;">■</span> 551+2910 <span style="color: gray;">■</span>	143+133
	Titan C (UiO/USIT)	4644	<span style="color: gray;">■</span> 0+3456	0+141
Slovenia	Arnes	288	<span style="color: red;">■</span> 288+0	141+0
	SiGNET	1114	<span style="color: red;">■</span> 1104+10	297+0
Sweden	Grad (SweGrid, Uppmax)	512	<span style="color: red;">■</span> 470+2 <span style="color: gray;">■</span>	385+56
	Ritsem (SweGrid, HPC2>	0		241+0
	Ruth (SweGrid, PDC)	457	<span style="color: red;">■</span> 422+0 <span style="color: gray;">■</span>	246+-4
	Siri (SweGrid, Lunarc)	504	<span style="color: red;">■</span> 13+432 <span style="color: gray;">■</span>	311+39
	Smokerings (NSC)	528	<span style="color: red;">■</span> 335+176 <span style="color: gray;">■</span>	260+2
	Smokerings TEST (NSC)	528	<span style="color: gray;">■</span> 0+512	0+248
Switzerland	Bern ATLAS T3	516	<span style="color: red;">■</span> 176+0 <span style="color: gray;">■</span>	159+0
	Geneva ATLAS T3	342	<span style="color: red;">■</span> 100+0 <span style="color: gray;">■</span>	56+0
	Manno PHOENIX T2	1704	<span style="color: gray;">■</span> 0+9 (queue inactive)	0+0
	Manno PHOENIX T2	1704	<span style="color: gray;">■</span> 0+9 (queue inactive)	0+0
<b>TOTAL</b>	<b>16 sites</b>	<b>21465</b>	<b>3983 + 9845</b>	<b>3343 + 633</b>

- HPC2N machine room update
- NSC new machine room
- HPC2N storage servers update
- NSC storage update

- “As seen on HEPiX”
- Expansion this week
  - Transformer upgrade:  
450kVA → 800kVA
  - Cabling, etc
  - From one to two 32A  
400V plugs per rack
  - ~40kW/rack available
  - Up to total of ~700kW
  - Tuning of cooling



# HPC2N room upgrade



- Progress as of Monday



- During this year, NSC will build a new computer room building
  - Four computer rooms totalling 2800 m<sup>2</sup>
  - Initially, only two of those will be furnished, while the third and fourth room will only be furnished "on demand" when we expand
  - Possibility for Sanger-style rotating "fallow room" for future refurbishment

- “Old” Sun thor dCache pools repurposed for ARC cache (NFS instead of dCache)
  - Big boost for analysis jobs
- No future for solaris, but no clear path for tape pools
  - TSM lanfree needs Supported tape driver – AIX (\$\$?) or RHEL (kernel updates?)
  - Not a problem for yet another year or so..
- New servers for virtual machines
  - kvm+ganeti+[drdb]

- NSC installed another petabyte of raw disk space for use by the Swedish met office at the beginning of 2011



# Questions?