

NAF Status

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Status HTCondor

The Batch System

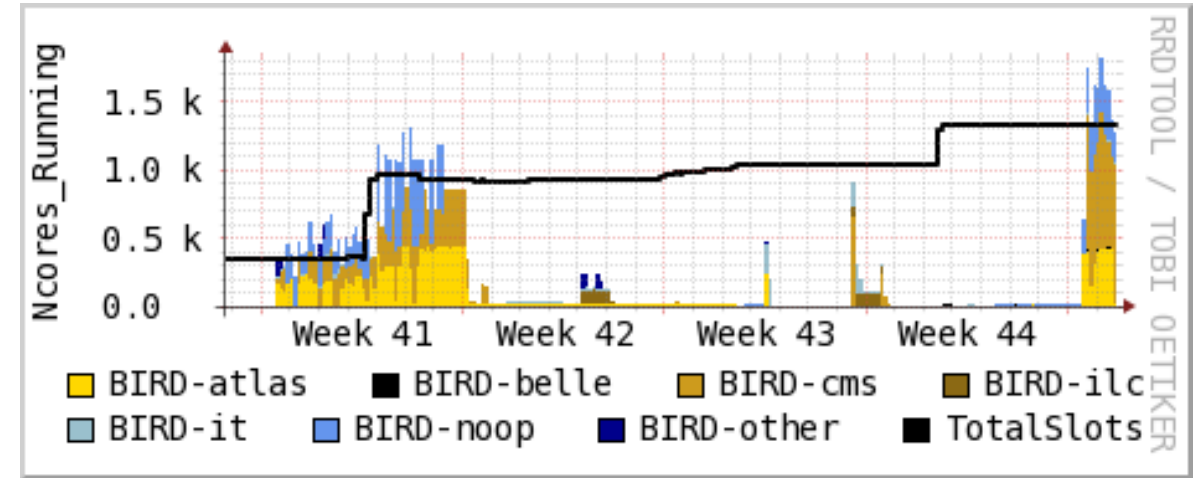
- Increase from ~400 to ~1300 cores in HTCondor Bird
- Migrated from SGE BIRD
- Additional 20 WNs can be migrated shortly, if needed

The WGS

- Last month: VMs for atlas, belle, cms, ilc, theory, unihh
- Addition this month: Server: naf-atlas11, naf-belle11, naf-cms11, naf-ilc11
- More WGS can be migrated as needed

The OS

- WGS Server on SL6
- Batch nodes all on SL6, except two with EL7
- Access of EL7: See docu (current default is SL6)



Utilization

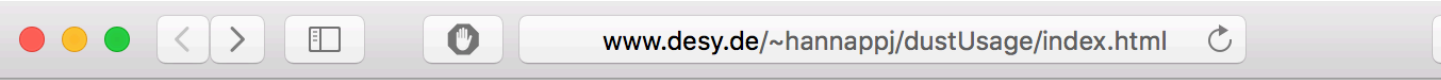
- The longer busy times stem from IT test jobs (some CMS jobs yesterday)
- What should we do to increase utilization?

Pilot mailing list and work done / in progress

- ssh-to-job : Done
- DUST mounts @ Scheduler : Fixed
- Fixing some error messages: Done
- DAGMAN : in progress
- Sometimes submit hangs: Workaround implemented
- Argument passing to job: Should be fixed

DUST Status

- Enlargement is done
- Additional Meta-Data server will be procured
- New overview of file usage available: <http://www.desy.de/~hannappj/dustUsage/index.html>
 - Once per week
 - With detailed report
 - File-detail in /nfs/dust/...
 - Plots with distribution available



Usage of Dust filesystem , on Sun Nov 5 22:00:20 2017

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Filesystem usage grouped by time of last access.
Note: The table is sortable, just click on the column head

Group	access <182d		access <365d		access >365d		Total		Mean size MiB	Mean age days	Plots	
	# files	Σ Size/TiB	# files	Σ Size/TiB	# files	Σ Size/TiB	# files	Σ Size/TiB			Sizes	Ages
atlas	54,931,985	163.001	178,282,598	252.441	803,441	0.114	234,018,024	415.556	1.862	267.000	svg	svg
belle1	77,663	0.390	2,689,730	5.370	37,530	0.004	2,804,923	5.764	2.155	327.000	svg	svg
belle2	9,032,884	3.522	26,470,389	7.545	19,930	0.001	35,523,203	11.069	0.327	249.000	svg	svg
cms	59,715,864	143.520	39,704,456	58.476	99,452,886	150.617	198,873,206	352.613	1.859	282.000	svg	svg
h1	50,324	0.269	4,654,074	12.563	123	0.000	4,704,521	12.832	2.860	318.000	svg	svg
ilc	2,129,761	23.322	24,038,219	83.744	28,028	0.077	26,196,008	107.143	4.289	303.000	svg	svg
lhcb	20,411	9.378	12,974	5.498	0	0.000	33,385	14.876	467.239	212.000	svg	svg
support	1,413	0.090	0	0.000	0	0.000	1,413	0.090	66.495	3.000	svg	svg
zeus	189,850	0.277	2,519,281	14.654	55	0.000	2,709,186	14.931	5.779	308.000	svg	svg
Total	126,150,155	343.768	278,371,721	440.292	100,341,993	150.814	504,863,869	934.874	1.942	274.000	svg	svg

Grid, NAF and dCache purchases

- 60 WNs @ 20 cores each (40 with HAT) for GRID
- 60 WNs @ 20 cores each (40 with HAT) for BIRD
- 2 PB Storage for dCache
- 1 Metadata server for DUST (see previous slide)

- Procurement soon

Miscellaneous

- ATLAS dCache update 22.11 & 23.11
- Terascale meeting: Tuesday 28.11.
 - 18:00-19:00 @ SR1
 - <https://indico.desy.de/sessionDisplay.py?sessionId=11&confId=18681#20171128>
 - Major topic from our side: HTCondor