Report from NAF User Committee

Terascale Alliance Grid Project Workshop 2009
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for the NAF User Committee
DESY

Content

1. NAF User Committee
2. Experiments
3. Virtual IT Centre

NAF User Committee

Documentation: `http://naf.desy.de/nuc`

2 contacts from each experiment + NAF admins

ATLAS	Jan Erik Sundermann, Wolfgang Ehrenfeld (chair)
CMS	Carsten Hof, Hartmut Stadie
LHCb	Johan Blouw (co-chair), Alexey Zhelezov
ILC	Steve Aplin, Niels Meyer
NAF	Andreas Gellrich, Kai Leffhalm

- since November 2008 two ILC members
- LHCb requirement paper in discussion

News from NAF User Committee

NAF technical coordinators:

- Andreas Haupt (DESY-Zeuthen)
- Yves Kemp (DESY-Hamburg)

$\rightarrow$ improved communication between NUC/experiments and NAF admins

Meetings:

- meetings in steady mode at the moment
- regular phone meetings: 2nd Wednesday each month, 1pm
- face-to-face meeting: May 2009 and November 2009 (annual Alliance workshop)
- NAF User Meeting at Aachen was a success!
  Next meeting planned for annual Alliance workshop, if around November 2009

NAF Extension: Resources

Additional resources are always welcome!

- at the moment there is no real need for additional resources: CPU and dCache storage
- real data is needed for defining additional requirements
  $\rightarrow$ might be too late for this year funding
  $\rightarrow$ cosmics might help to estimate event size better
- new Lustre scratch space is set up at the moment
  $\rightarrow$ need to see how this is shared between experiments

Status of the Experiments

Status of the experiments: ATLAS, CMS, LHCb, ILC

- every experiment is well set up
  (ATLAS and CMS early user, then ILC and LHCb)
- not very much interactive activity from CMS and LHCb
- CMS very active on NAF-GRID resources
- ATLAS main interactive user, then ILC

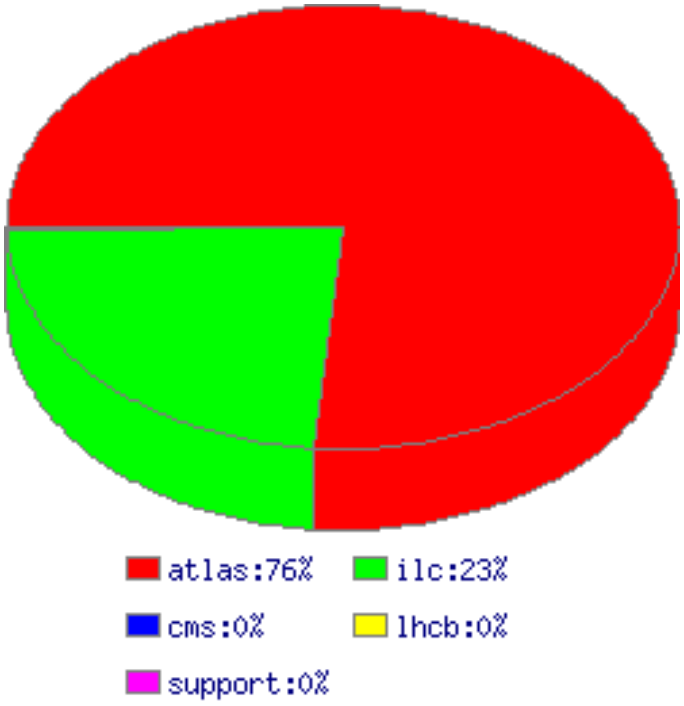
Still, batch system has free resources!

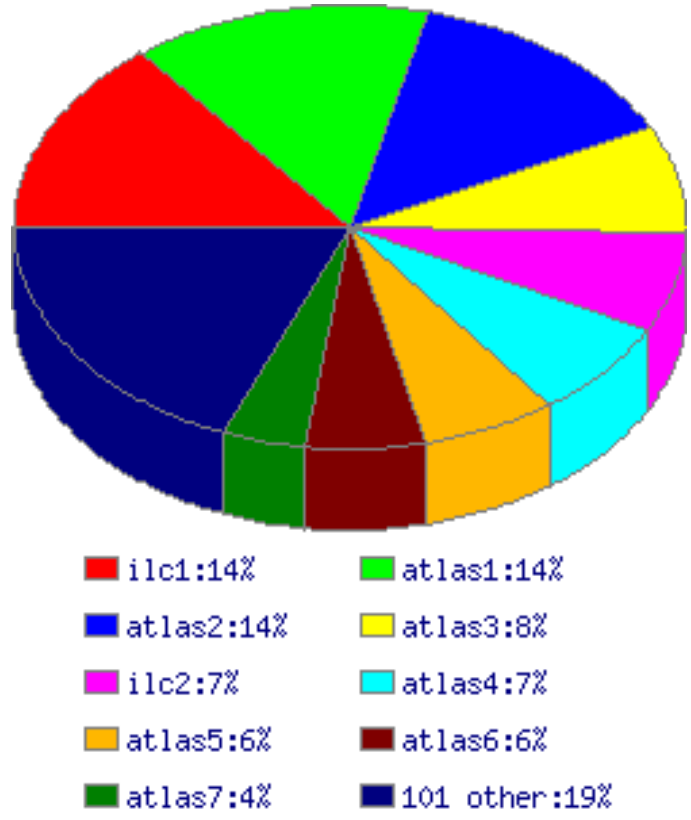
Comments:

- fair share implemented but not fully effective as system is not full on average and some experiments are missing
- a few power users but around $\sim$ 30 active users per month (batch)

Usage 2008

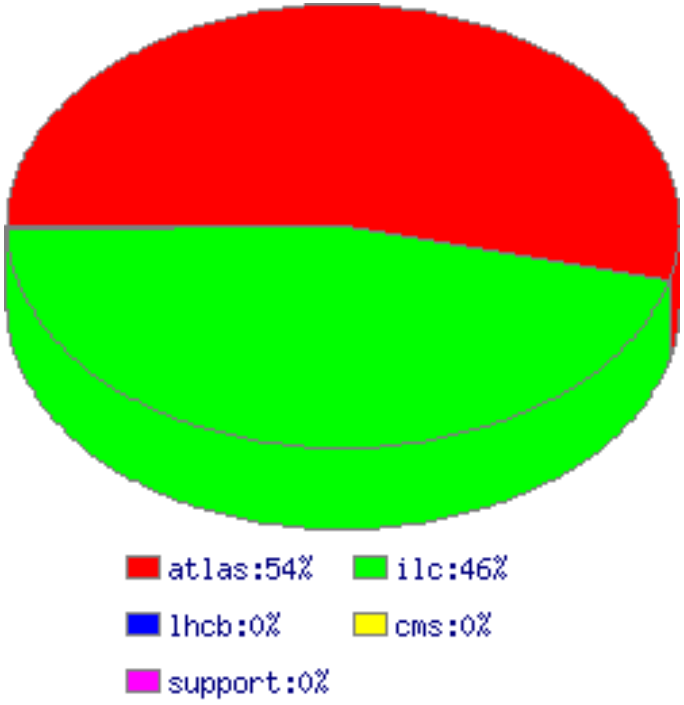
CPU time at interactive NAF 2008 by Project/User:

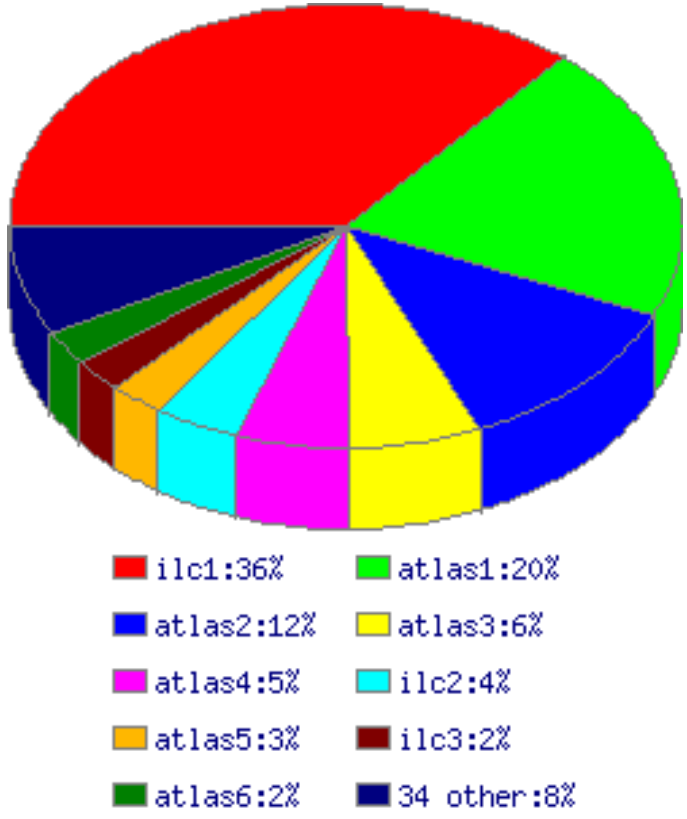




Usage 2009

CPU time at interactive NAF 2009 by Project/User:





NAF as a prototype for of a VIC?

Difficult question!

What can we learn from the NAF for the Virtual IT Centre?

NAF services:

- login
- support
- ???

Experiments:

- tools
- data access
- support
- ???

ATLAS Use Cases

ATLAS use cases (power user):

- physics fitting: fittino
- NLO cross section calculation
- private MC production: AtlfastII
- ntuple production

Data analysis is not the major activity at the moment (for obvious reasons), but people work on this.
$\rightarrow$ difficult to learn about end user data analysis

At least people get used to work on the NAF.

Why NAF?

Why are the (ATLAS) users working on the NAF?

- CPU and storage resources available
- easy to use (account, login, software, data, support)
- input data available
- experiment software up to date
- support of experiment software with site specific tools
  - available software
  - easy to set up (athena, ganga, root, UI, site specific tools)
  - data catalogue interface for local data
- AFS home directory

What is not very well working?

- data transfer to home institutes (experiment tools not easy to use, network connection seems slow and a bit unstable)

Similar things can be said for ILC.

NAF → VIC

What can we use/learn from NAF?

- tools are important to get the users started and working
  - account registration
  - ATLAS: software setup
  - ATLAS: data management
- support and documentation is important
- enough resources are important
- good network is needed (even without WAN data access)