

#### Development Status Report

#### Current status

v3.6 was released (2011-07-07)

Ongoing development:

v3.7 - development version

v3.8 - will be the next stable tag

#### PoD Website news

## LoadLeveler plug-in

The LoadLeveler plug-in joined to the long list of supported plug-ins.

- SSH,
- gLite,
- LSF,
- PBSPro/OpenPBS/Torque,
- Sun/Oracle Grid Engine,
- Condor,
- LoadLeveler.

## PoD fully supports now Mac OS X and Linux

## pod-ssh

- now remembers the last used config file,
- got several speed-up improvements,
- is now much less verbose by default and learned a debug mode,
- now user can choose whether to download worker logs

# PoD Ul and Server disentangling

a new great command

pod-remote

(see the Live Demo)

#### PoD WN

Now each PoD WN starts its own xproofd daemon.

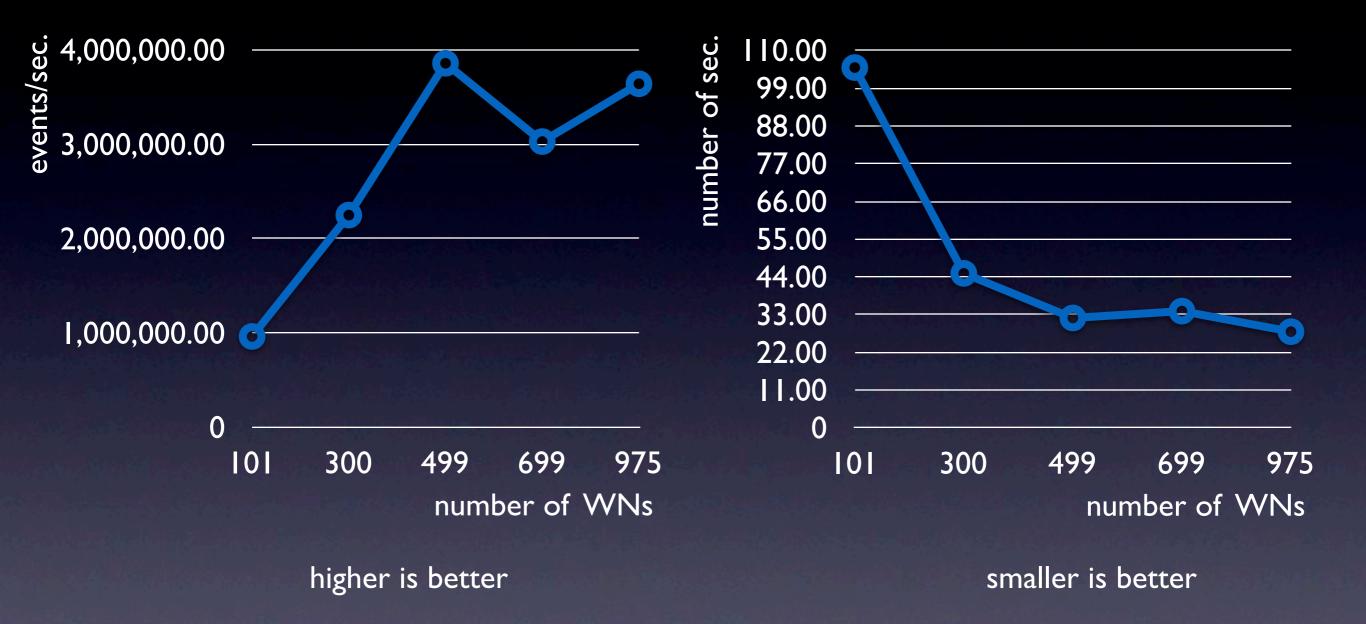
In this case we can control and handle each PoD worker individually.

(important for PoD and AliEn integration)

## prefer CLI over GUI

### Live Demo

#### 1000 WNs



To process these tests GSI's dynamic Cloud infrastructure has been used together with PoD and its SSH plug-in

#### 1000 WNs

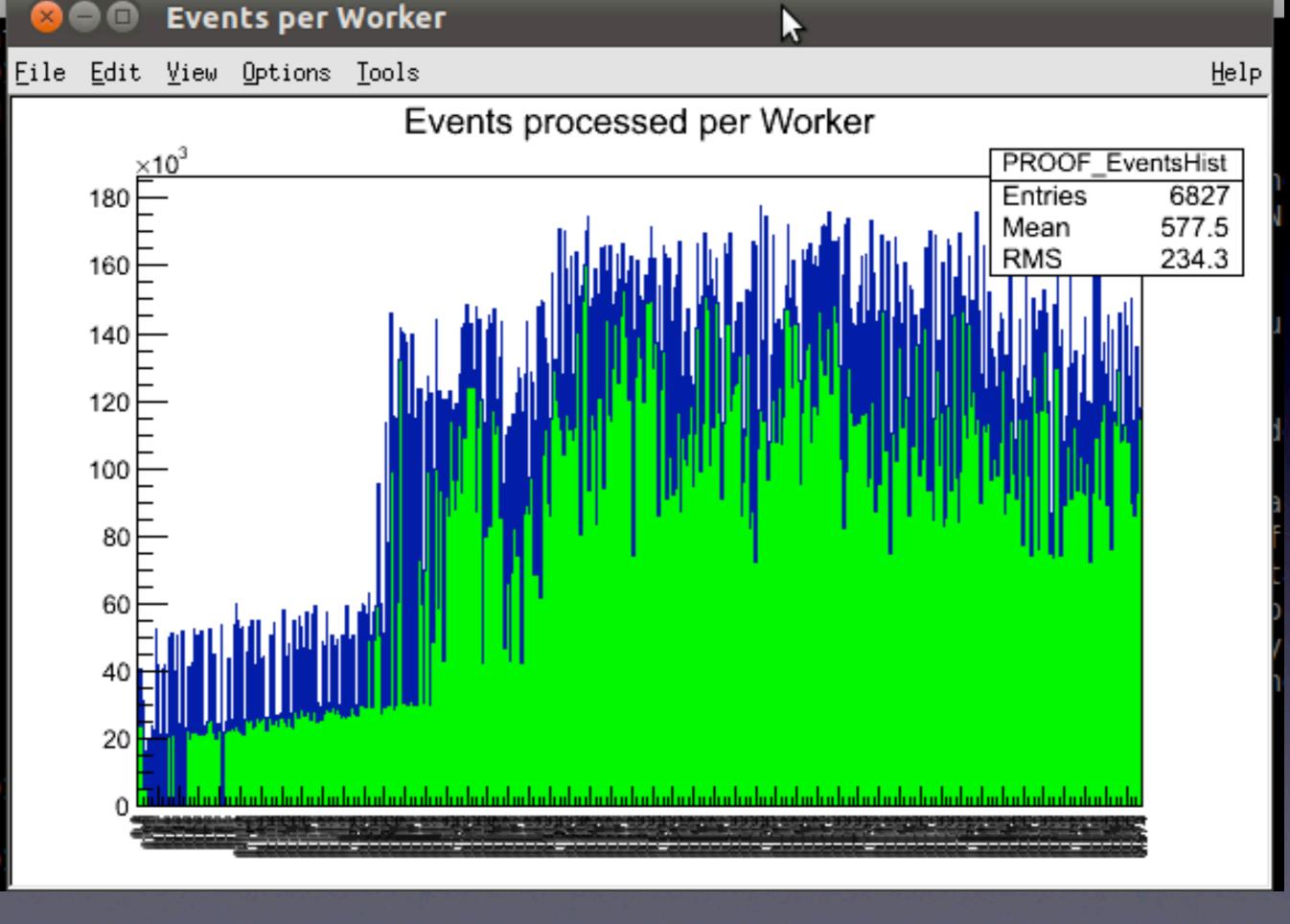
In case of 699 and 975 WNs the processing time, which PROOF reports, was significantly different in compare to real time.

Processing time for 975 was 28 seconds.

Real time for 975 was 45 minutes!

Possible Reason: The processing time is just a time spent and reported by WNs to process queers(?). The rest time is what PROOF Master (its packetizer) spent on distributing the work between WNs.

OR there is simply a bug in time calculations in PROOF.



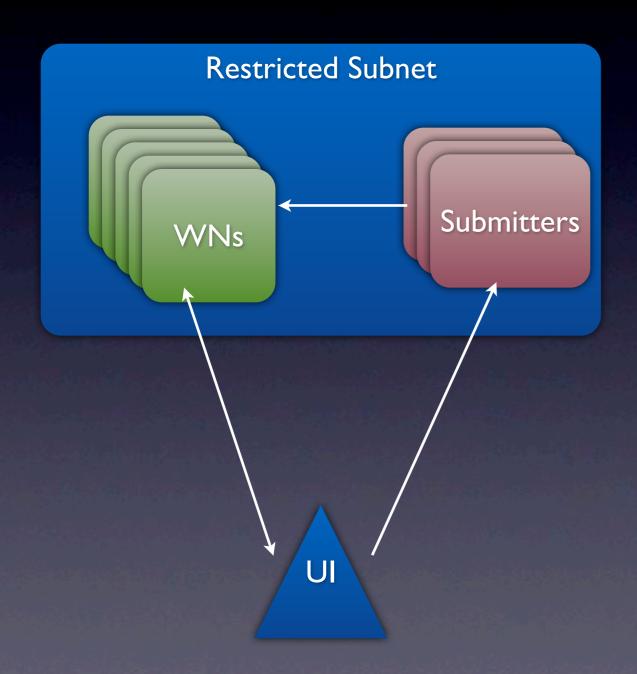
#### 1000 WNs conclusions

 PROOF: check whether a thread pool will help to speed the master up.

PROOF: revise the packetizer.

 PoD: optimize pod-ssh in case when there are many single-core machines. To process 1000 entries from the pod-ssh config file took ~3 minutes.

## New PoD development: Dynamic Master architecture



- use pod-remote to submit PoD jobs,
- all PoD WNs connect back to PoD UI,
- PoD UI dynamically assigns a suitable WN to be a PoD server and a PROOF master,
- all WNs connect to that dynamic PROOF master,
- PoD automatically creates its packet-forwarding tunnel to redirect PROOF traffic between Ul and the Master.