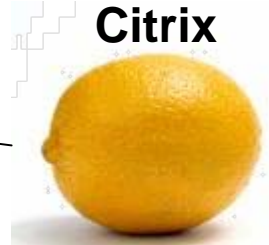


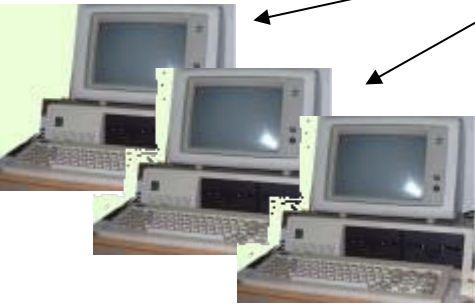
Release Manager Wish List

**Release Mgr
(Linux)**

LSF



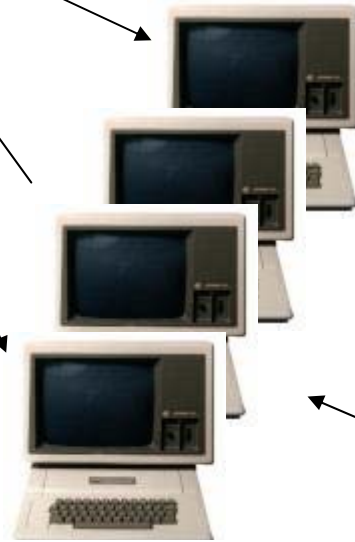
glast 06, 09-11
(soon 05, glastwin-03)?



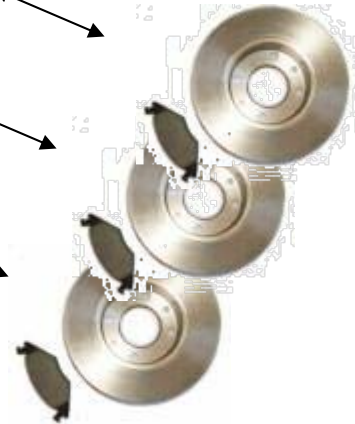
Linux farm



MAC farm



Windows garden



V:\Glast_Software_Scratch
2 TB



R.Dubois

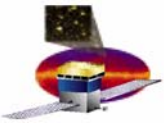


**/nfs/farm/g/glast/u09/
For Installer distribution**



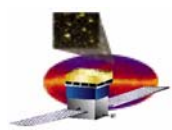
norics

1/7



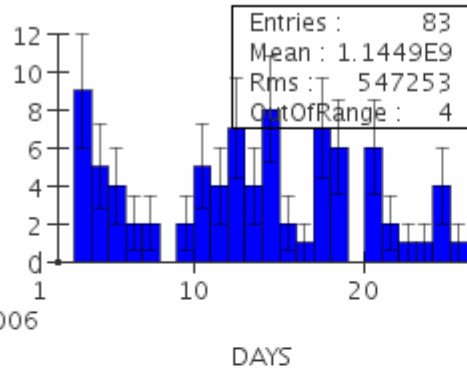
In Words

- **Release Manager**
 - Triggered by cvs tags
 - 3 tiers of builds: release, candidate release, “latest tags”
 - Cron job on linux
 - Builds are done in batch as serial checkout, compile, unit tests (each a separate job)
- **Builds**
 - Keep as many as we can afford
 - For use by local users
 - Used by Installer for code/binaries distribution
 - Perl, java versions of installer talking to mySql db
 - Installer files kept on nfs farm disks
- Provide standard shared environment on linux (noric) and windows (Citrix)



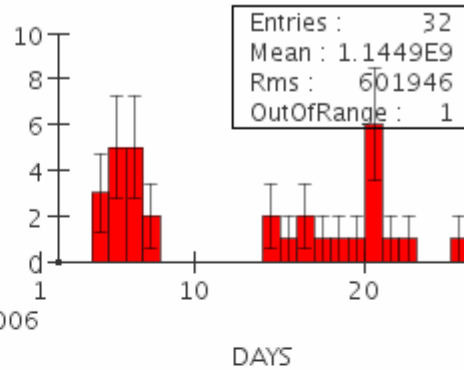
Supporting Data

GlastRelease: rh9_gcc32



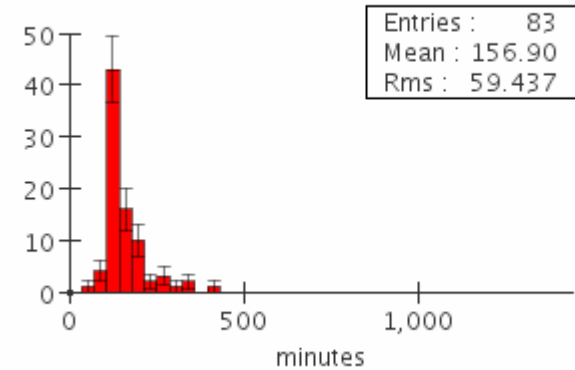
Apr, 2006

ScienceTools: rh9_gcc32

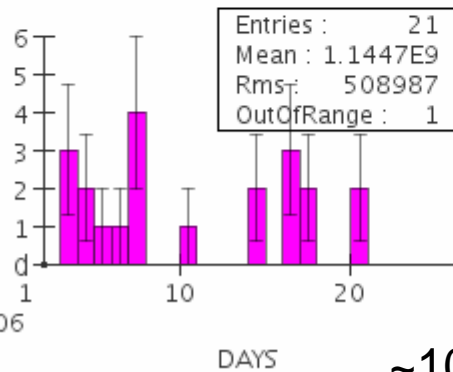


Apr, 2006

GlastRelease: rh9_gcc32



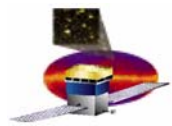
EngineeringModel: rh9_gcc32



Apr, 2006

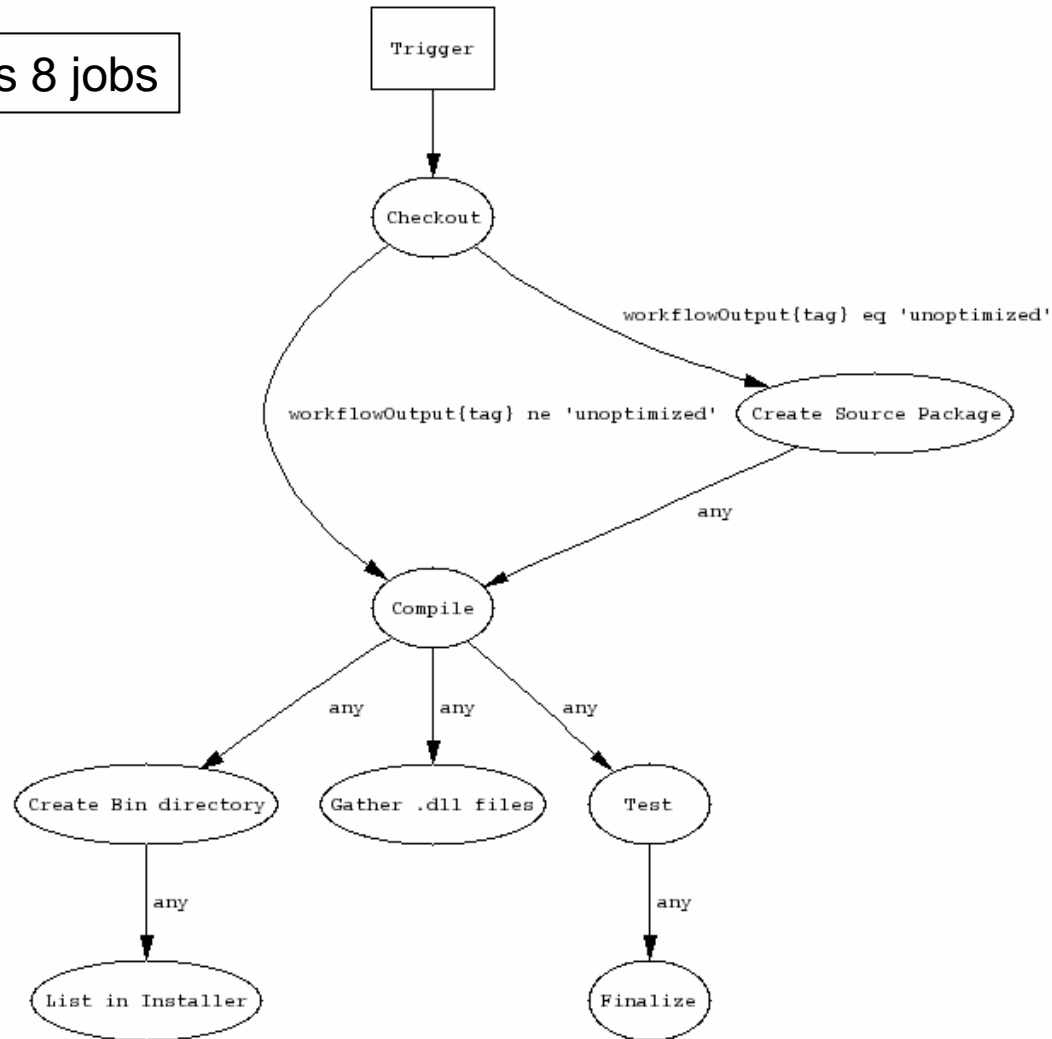
~10 builds/day @ 2.5 hrs each (linux),
but episodic

Builds eat up about 600 MB on linux
2.75 GB on windows!



WorkFlow on Windows

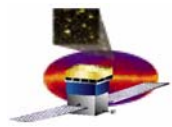
Each build spawns 8 jobs





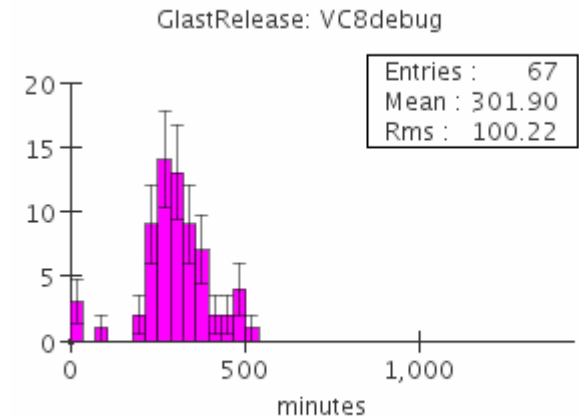
Monitoring

- **We use ganglia on the linux side to monitor servers and disk**
 - **Would like the same tools for windows servers and disk too to minimize things to learn and remember!**

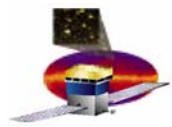


What is wrong with this picture?

- **Windows builds are dead slow!**
 - **<5 hr> with tail to 8 hrs!**
 - **Just defragged disk, some improvement in I/O**
 - **Suspect that is not the (whole) problem**



- **Citrix box is Windows Server 2000**
 - **Does not support long path variable**
 - **We can't run our code!**
 - **Request for upgrade to 2003 is longstanding**
 - **Access from linux impossibly inconvenient; no support to fix it**
- **Several month lag already getting glast-win03 into the fray**
 - **(and glast05, 06 – but different hold-up)**



Priorities

- 1. RM does windows builds at same rate as linux**
 - 1. Needs good I/O; enough CPUs; enough disk to keep up**
- 2. Users can use Citrix to access RM builds**
 - 1. Good connectivity to V:\; maintenance of supporting code on Citrix (cvs, ssh, MrVcmt etc)**
 - 2. Accessible from windows, linux, mac**
 - 3. Supports long paths**
- 3. Users can submit windows batch jobs to LSF from Citrix**
 - 1. Enough CPUs; enough disk space**
 - 2. Small number of users expected**