

We are talking about...

- 373 source files in C
- 448 header files
- 443 source and header files of 3rd party code

👁 Sun

- 5 daemons and 19 client cmds.
- A software that runs on most Unix systems





🔷 <u>Sun</u>

SourceCast Web-based Project Environment

- set up and advance projects easily
- centralize project information, avoiding synchronization problems
- location independent access
- changes immediately visible
- focus on SW development instead of system maintenance

SourceCast Revision Control

- CVS ensures accurate revision information
- exchange among any # of developers
- color-coded version tracking/diffing
- code/documentation/webcontent use same procedures
- revisions perfected locally and published in master repository



SourceCast Mailing Lists mail archives help new developers open forum for discussion and voting enhance collaboration mailing list search can give hints/contacts on a special topic

�<u>Sun</u>

�<u>Sun</u>

SourceCast

Unified Web-based Administration

- Access control via role based permissions
- easily maintainable and customizable development environment
- administration from anywhere
- Hiding of underlying details for project admins

SourceCast Grid Engine Registration Two step registration process • Register as user of sunsource.net http://gridengine.sunsource.net/servlets/Join • Register as a project member of Grid Engine http://gridengine.sunsource.net/servlets/ProjectMembershipRequest







SourceCast

Grid Engine Upload/Download

 Download Binaries Prebuilt courtesy binaries for the most important Unix architectures http://gridengine.sunsource.net/project/gridengine/download.html

👁 Sun

Sun

- File Exchange Tool
 - source tarballs
 - contributions
 - source code patches either here or in Issuezilla





SourceCast Grid Engine cvs (cont'd)

- Branching
 - release versions as branch of maintrunc
 - fixes applied to both branches
 - for special implementations subbranches
 - for new release branches are obsoleted and die

🔷 Sun

- main development in maintrunc
- avoid branching if possible, development overhead



















libs/ (cont'd)

• gdi/ - Grid Engine Database Interface

🔷 Sun

- standardizes the mechanism for creating, retrieving, changing and deleting objects stored within the qmaster process.
- GDI is the main interface for communication between a client and qmaster
- Implementation is two-fold:
 - qmaster: implements the server functionality
 - client side: implement calls for getting/adding/ deleting/modifying objects in qmaster



































Building Grid Engine from scratch

👁 Sun

- It's easy and straightforward.
- Open source is the development platform
- get sources via cvs or a source tarball







🔷 Sun