Java Development Conventions for GLAST
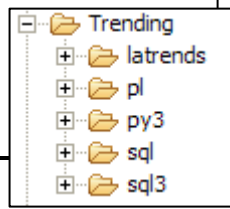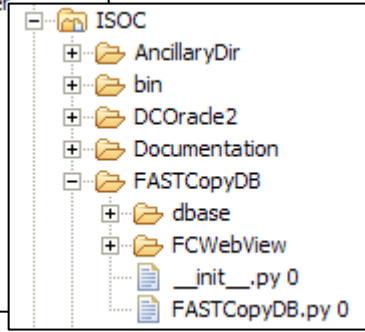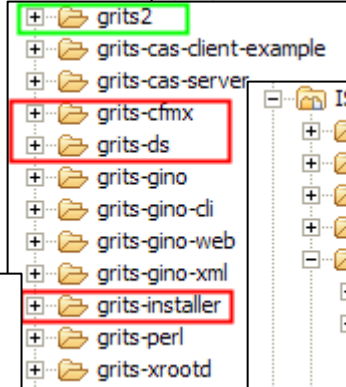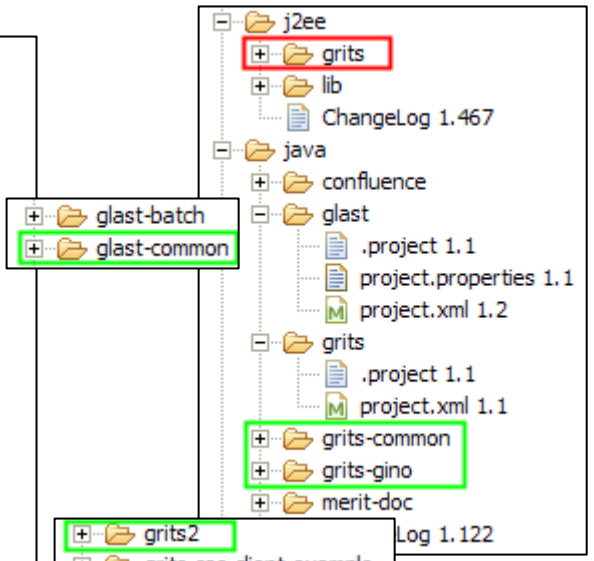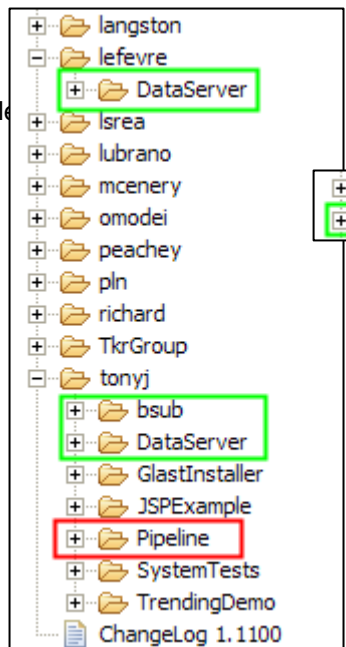
Suggestions and Proposals

Outline

- Summary of possible problems
  - Scattered CVS modules
  - Scattered projects
- Proposed Solutions
  - Naming conventions
    - CVS module and Maven project/directory names
    - Java package names
    - Project layout
  - Coding conventions
  - IDE conventions
  - New CVS or SVN Server
  - Cruise Control
    - Automated builds
- Conclusion

Scattered CVS Modules and Projects

Project	Group	Repository	Directory
glast-batch	SAS	ground	glast-batch
glast-common	SAS	ground	glast-common
grits2	SAS	ground	grits2
grits-cas-client-example	SAS	ground	grits-cas-client-example
grits-cas-server	SAS	ground	grits-cas-server
grits-cfmx	SAS	ground	grits-cfmx
grits-ds	SAS	ground	grits-ds
grits-gino	SAS	ground	grits-gino
grits-gino-cli	SAS	ground	grits-gino-cli
grits-gino-web	SAS	ground	grits-gino-web
grits-gino-xml	SAS	ground	grits-gino-xml
grits-installer	SAS	ground	grits-installer
grits-xrootd	SAS	ground	grits-xrootd
grits	SAS	ground	j2ee/grits
confluence	SAS	ground	java/confluence
glast	SAS	ground	java/glast
grits	SAS	ground	java/grits
grits-common	SAS	ground	java/grits-common
grits-gino	SAS	ground	java/grits-gino
merit-doc	SAS	ground	java/merit-doc
DataServer	SAS	ground	users/lefevre/DataServer
bsub	SAS	ground	users/tonyj/bsub
DataServer	SAS	ground	users/tonyj/DataServer
GlastInstaller	SAS	ground	users/tonyj/GlastInstaller
Pipeline	SAS	ground	users/tonyj/Pipeline
SystemTests	SAS	ground	users/tonyj/SystemTests
FCWebView	ISOC	online	ISOC/FASTCopyDB/FCWebView
latrends	ISOC	online	ISOC/trending/latrends

Friday, June 17, 2005   Matthew D. Langston

GLAST Java Statistics

- 28+ Java projects
- 3 CVS repositories
  - ground, online, freehep
  - Different permissions, notifications
  - Different JIRA integration
- 7+ developers
  - Bryson, Dan, Igor, Matt, Mark, Max, Tony
- 5 distinct package layouts
  - (that I could discern)
- 5 distant coding conventions
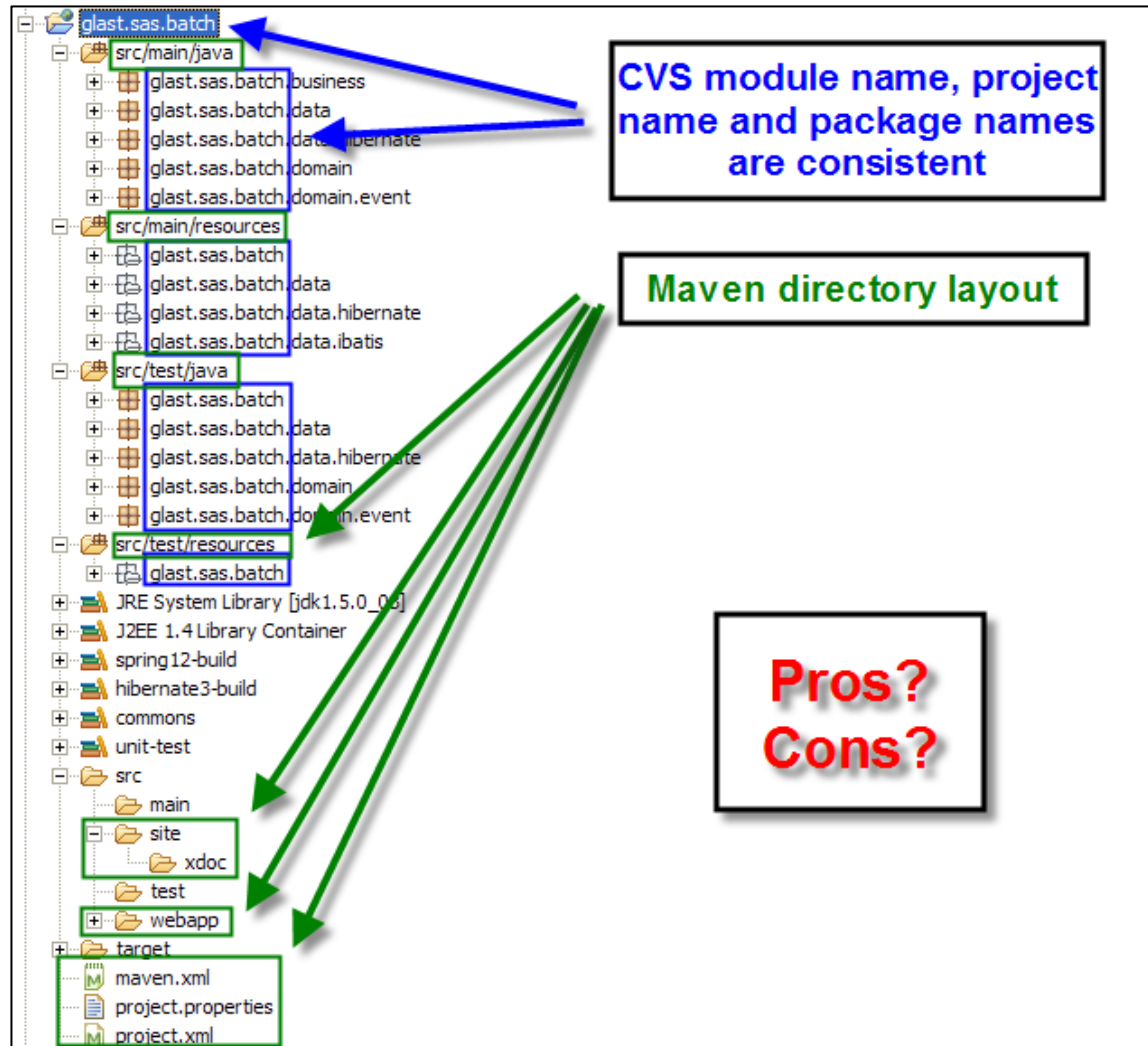 - (that I could discern)

Proposal: Single Java Source Repository

- Pros and cons?
- CVS or Subversion?

Proposals: CVS module and Maven project/directory names

- CVS module, Maven project and Maven artifact are identical
- Convention: `<domain>.<project>`

    Suggestion 1:
    - `glast.sas.profile`
    - `glast.isoc.fastcopy`

    – Suggestion 2
    - `org.glast.profile`
    - `org.glast.fastcopy`

    – Suggestion 3:
    - `edu.stanford.slac.glast.profile`
    - `edu.stanford.slac.glast.fastcopy`

- Pros
    – Many projects have adopted this style
    – New Maven style
- Cons?

Proposal: Project Layout

Proposals

– Coding conventions

– IDE conventions

- Eclipse, JBuilder, Netbeans, etc.

– Cruise Control

- Automated builds
- "Release Manager for Java projects"

Conclusion

- What did I forget?

- Where do we go from here?