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 | | Ė ė | j2ee |
|--------------------------|-------|------------|---------------------------|--------------------|----------------------|---|
| glast-batch | SAS | ground | glast-batch | ± | | j≥ee ⇒ grits |
| glast-common | SAS | ground | glast-common | ⊟ | | ≥ lib |
| grits2 | SAS | ground | grits2 | ⊕ DataServer | | ChangeLog 1.467 |
| grits-cas-client-example | SAS | ground | grits-cas-client-example | ⊕ | | |
| grits-cas-server | SAS | ground | grits-cas-server | ⊕ Diubrano | · · · | confluence |
| grits-cfmx | SAS | ground | grits-cfmx | | | □ glast □ glast |
| grits-ds | SAS | ground | grits-ds | T - ' | glast-common | .project 1.1 |
| grits-gino | SAS | ground | grits-gino | ⊕ peachey | giast common | project.properties 1.1 |
| grits-gino-cli | SAS | ground | grits-gino-cli | ⊕ pln | | project.xml 1.2 |
| grits-gino-web | SAS | ground | grits-gino-web | ⊕ richard | | □ grits □ grits |
| grits-gino-xml | SAS | ground | grits-gino-xml | ± | | .project 1.1 |
| grits-installer | SAS | ground | grits-installer | □ | | project.xml 1.1 |
| grits-xrootd | SAS | ground | grits-xrootd | ⊕ bsub | + | □ grits-common □ gr |
| grits | SAS | ground | j2ee/grits | ⊕ | | ⇒ grits-gino |
| confluence | SAS | ground | java/confluence | · → GlastInstaller | | merit-doc merit-d |
| glast | SAS | ground | java/glast | | ⊕ / grits2 | Log 1.122 |
| grits | SAS | ground | java/grits | . ⊕ Pipeline | 🛨 🧁 grits-cas-client | |
| grits-common | SAS | ground | java/grits-common | | 🕂 🗁 grits-cas-serve | - TOOS |
| grits-gino | SAS | ground | java/grits-gino | 🛨 🗁 TrendingDemo | 🕀 🗁 grits-cfmx | ISOC |
| merit-doc | SAS | ground | java/merit-doc | ChangeLog 1.1100 | 🗓 🗁 grits-ds | AncillaryDir |
| DataServer | SAS | ground | users/lefevre/DataServ | er | 🗓 🗁 grits-gino | i → bin |
| bsub | SAS | ground | users/tonyj/bsub | | 🗓 🗁 grits-gino-cli | DCOracle2 |
| DataServer | SAS | ground | users/tonyj/DataServer | | 🗓 🧀 grits-gino-web | Documentation FASTConvDB |
| GlastInstaller | SAS | ground | users/tonyj/GlastInstalle | er 🗀 🧀 Trending | grits-gino-xml | FASTCopyDB |
| Pipeline | SAS | ground | users/tonyj/Pipeline | ± latrends | 🛨 🗁 grits-installer | ⊕ dbase |
| SystemTests | SAS | ground | users/tonyj/SystemTes | ts ± p | 🛨 🧁 grits-perl | FCWebView |
| FCWebView | ISOC | online | ISOC/FASTCopyDB/F0 | CWebView py3 | 🛨 🧁 grits-xrootd | initpy 0 FASTCopyDB.py |
| latrends | ISOC | online | ISOC/trending/latrends | ± | | ГАЗТСОРУОВ.РУ |
| | | | | | | |

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?

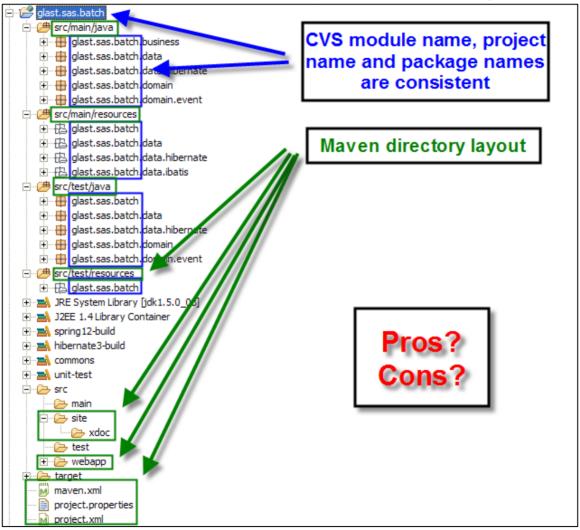
Proposals: CVS module and Maven project/directory names

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

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?