



GlassFish v3 Builds Today

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Depends Heavily on Maven

- In usual ways
 - Dependency management
- Using some of the advanced features
 - Custom life-cycle to bind mojos automatically
 - Several external mojos play key role
 - BND plugin for OSGi metadata generation
 - Several custom mojos developed in house
 - HK2, distribution assembly, debug
 - Extended antrun plugin

Key Mojos

- HK2
 - Annotation processing to generate code and metadata
- BND (external)
 - Post-compilation processing to generate OSGi metadata
- Gf:run
 - Run GFv3 in place for debugging

Maven Antrun Extended Plugin

- <http://maven-antrun-extended-plugin.d.j.n/>
- Forked version of maven-antrun-plugin
- Arithmetic over dependency graph
 - Subtraction, filtering, etc.
- Key part of the distribution assembly process

Distribution Assembly Process

- <http://wiki.glassfish.java.net/Wiki.jsp?page=V3DistributionAssembly>
- Enables a large number of different distributions
- Enables different packaging formats for a distribution
- Recognizes several kinds of artifact types and places them accordingly
 - hk2-jar, pom, and distribution-fragment

Automation Infrastructure

- Dev builds
 - Just do a full build for each commit
 - Runs fast, catch problems soon
- “Main” build
 - Pushes jars to Maven repositories
 - I need to make improvements in Hudson to make this go faster
- QL build
 - Hooked to the main build. Checks quality of main builds

Maven Repositories

- Hudson pushes to internal staging repository through WebDAV
 - <http://rator.sfbay/maven/repositories/glassfish/>
- A separate Hudson job pushes this to 2 external mirrors
 - <http://maven.dyndns.org/glassfish/>
 - <http://download.java.net/maven/glassfish/>

Other Misc. Topics

- Pushing for more build de-composition and binary integration
- Custom life-cycle for OSGi repackaging
- Fixing source jars for OSGi repackaging