Proposal for a GLAST release system: state diagram

Stable Release

vnrm

k=0

Updating packages
vnrm pk

Testing: Linux & Win

succeed: m → m+1

fail: k → k+1
Details

• Release definition
  – contents of the tagged GlastRelease package, in usual form
    use Package version
  – for example, see the current GlastRelease package in our cvs

• Define new package set (to k=0)
  – From the package table in the Oracle tag database
  – Changes in response to authorized developer web requests.
  – A developer table has a list of developers
  – There is a many-to-many developer★package relation

• Start build
  – nightly, and on Thursday* morning
  – run on both Windows and Linux
  – results to web-accessible log files

• If fail:
  – authors notified by auto generated e-mail, requested to fix, and retag with new patch.
  – managers may intervene with fixes on Thursday*
  – Increment release patch number
  – Any new package patches automatically set in data base.

• If status is successful on Thursday*
  – Retag GlastRelease with new version.
  – Logs entered into database for future reference
  – Create tar-balls for collaboration.

* “Thursday” is a place holder for the day on which we decide to generate a new release: not necessarily weekly
Tasks

- Karen
  - Create Oracle tag database with tables for packages, developers, relations, logs, and update requests
  - Design a webpage for developers to submit tag updates, with authentication.
  - Generate e-mail notification to Glast mailing list of submitted changes

- Alex
  - Redesign scripts to run builds (generating a new GlastRelease list from the tag database), save results, notify developers
  - Create script to log new patch tags in data base for next build
  - Design a system for independent nightly builds of head versions of packages in the list

- Toby
  - Update design as needed, maintain documentation