Trilinos Framework Update

10:30 Thursday Nov. 1st, 2012
CSRI 90
Jim Willenbring

Outline

- Anonymous clone / repository reminders

- SIERRA/Trilinos integration effort

- Future release timing

- Trilinos.org

- Contributor agreements

- BSD licensing

- Branch policy reminder

- Upcoming and ongoing framework efforts

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- **Trilinos read-only public repository:**
  - git clone https://software.sandia.gov/trilinos/repositories/publicTrilinos
  - Public repo excludes some files / directories

- **Developer repository reminders**
  - Anything committed to the main Trilinos repository must be approved for unlimited release
    - **New packages: preCopyrightTrilinos (get approval for package first)**
    - **New documents: TrilinosDocuments, or custom solution**
    - **Read-only repository includes historical information**

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SIERRA/Trilinos integration effort

- **Overview**
  - SIERRA maintains a complete, independent copy of Trilinos
  - Current integration process has been broken for nearly 1 year.

- **Status**
  - A new integration process is being defined, and is partially in place
  - Brent has new commits to SIERRA flowing into Trilinos
  - Commits are currently being migrated from Trilinos into SIERRA
  - New machine for testing on the Trilinos side

- **To make the process smooth**
  - Commits to STK and SEACAS should typically be made to SIERRA
  - Commits to other packages should be made to the Trilinos repository
  - Please assist with the effort in a timely manner when requested

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- Proposal:
  - February - 11.2
  - June - 11.4
  - September - 11.6
  - February, 2014 - 11.8
  - June, 2014 – 11.10
  - September, 2014 – 12.0

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- Update on securing web hosting
  - Contract placed
  - Server set up 10/30
  - "Test-drive" 10/31

- Next steps
  - Get basic site in place
  - Set up Trac?
  - Developer discussion on specifics after basic site setup

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Contributor agreements

- **Contributor agreements in draft phase**
  - Approval for general idea from legal
  - Agreement is based on OpenMPI

- **Agreements for**
  - Institutions
  - Individuals

- **All contributors will agree to the Trilinos licensing model**

- **Contributors will add their copyright to their contributions**

- **Important for improved community development model**

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BSD licensing

- 34 packages licensed BSD in 11.0
    - 19 packages licensed BSD in 10.8

- 4 more packages ready to convert

- Contact me if there are drivers to convert specific packages

- Policy encourages using public branches only when there is a strong reason to do so

- Branch should be prefaced with package name, e.g.

  epetra_important_branch_name

- Not prefacing with package name causes email issues

- Full policy:

  software.sandia.gov/trilinos/developer/policies/creating_branches.html

Upcoming and ongoing framework efforts

- Move to trilinos.org

- Formal contributor agreements

- "Finish" SIERRA/Trilinos integration

- Teuchos subpackaging (Ross)

- Continue improving Bilder support (Tech-X)

- Improved TPL support (via TriBITS)

- Restore and improve nightly testing

- Continue move to BSD licensing

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