Process Improvements

• Bugs need to be triaged
• Patches need to be applied
  • Need to be analyzed before applying
• Testability
  • Combination of JUnits
  • GUI testing – Abbot, SWTBot
• What platforms do we support?
  • Where do we run
Bugs

- Lots of bugs open
  - Lots of incoming
    - Lots of bugs not getting looked at
- Doug: Fix components
- Triaging
  - Component leads triage
  - All components need to have leads
Bug States

• New, untriaged
  • ---

• New, needs info
  • New resolution (incomplete) or state
  • Use keyword for now (needinfo)

• New, ready to be assigned
  • Assigned to inbox
• **Assigned**
  - Committer takes it
  - Doug to set up inboxes as default CC list
• **Code Review?**
  - Time delays waiting for reviews
  - Reviews valuable for tough code
  - Reviews optional but encouraged, tracked
  - Use review flag to request, approved/disapprove
    - Use inbox for general call for review
• Fixed
  • PR number in commit comment
  • Patch to bug

• Verified
  • Originator verifies, other people can verify
    – How to motivate them – make them QA contact
  • JUnits
  • Testers? During test cycle
• Closed
  • Verified at end of release
  • Resolved not fixed at end of release
  • Resolved fixed at end of next release
Triage Kick

- Publicize list of untriaged bugs
  - Once a month
  - More often at end of release and through first maintenance cycle
Ramp Down Policy

- No bugs open at end of release targeted to that release
  - Countdown
- Publicize all changes after RC2 on cdt-dev list
- Publicize untriaged bug
Testing

• Mobilize the community to test?
  • Get the message out
    – New and noteworthy
    – Instructions on how to test new features
  • Clean up bugs and triaging
  • Contests

• Make committer testing more visible, trackable
  • What is/isn't being covered
  • Create list as a community
  • Track sign up for tests
User Documentation

- Raise visibility
  - User doc reviews
- Docs with patches
- What the committers
- Where are we?
Design Docs

• Design docs and javadoc
  • Enforce we have some
    – Remind each other
      • Reviews, bugs

• Good web site
Componentization

- Parser/Indexing
- Editor/Reconciler/Partitioner/Formatting
- Refactoring
- CModel/project model
- Source Navigation
- Scanner Discovery
- Standard/Makefile projects
- Managed/Build generation/internal builder
- Build core/Error parsers
- DSF
- DSF/GDB
- CDI
- CDI/GDB
- Debug core/Breakpoints/Source lookup
What's Component/Why

- Areas of responsibility to subdivide and focus
  - Triaging bugs
  - Answer questions
  - Lead is responsible for quality and deadlines
- Maps to code
  - Self contained
  - Self explanatory
Components

- Debug DSF (Pawel)
- Debug DSF/GDB (Marc)
- Debug CDI (John C)
- Debug CDI/GDB (Elena)
- Debug (Ken)
- Build Standard (Elena)
- Build Managed (Chris)
- Build (Elena)
Components Part II

- Editor (Toni)
- Parser (Mike)
- Indexer (Markus)
- Navigation (Markus)
- Refactoring (Emanuel)
- Project (Doug)
- Releng (Vivian)
- User Assistance (Doug)