Novice and Extended Examples

Dennis Wright
Geant4 Collaboration Meeting
Lisbon, Portugal
12 October 2006

Outline

- Novice examples

- Extended examples

- Management of novice/extended examples

- Discussion

Novice Examples

- 7 well-known examples

- Who maintains them?

  – need to assign a name to each one

- Updating and/or re-organization required

Updating the Novice Examples

- Write new ones
  - should be more closely related
  - each example should build on the previous one
  - model them after MCNPX examples?
  - use and encourage good C++ practice
- Or re-organize the existing ones
  - keep N01-N04, add a few more from extended
  - put N05-N07 in extended
  - narrow the focus of each novice example

Extended Examples (52)

- /analysis (2)
- /biasing (3)
- /electromagnetic (20)
- eventgenerator (2)
- /field (6)
- /g3tog4 (2)
- /geometry (2)
- /hadronic (1)

- /medical (2)
- /optical (1)
- /parallel (2)
- /parameterisation (1)
- /persistency (2)
- /radioactivedecay (1)
- /runAndEvent (2)
- /visualization (3)

Updating the Extended Examples

- Many out-of-date, broken, or not maintained

  - need a survey of which examples work under the current release

  - do we need 52 extended examples?

- The extended examples need to be re-organized

  - move test examples to category directories, to be maintained by category

    - TestEm0n, ...

  - keep examples which extend Geant4 or demonstrate its features

Managing the Examples

- Need responsible person for all novice/extended examples

    – form a working group?

    – not a new idea – time to reconsider

Proposed Charge to New Group

- Review all novice and extended examples
    - identify some to discard
    - propose new ones

- For each remaining example, identify developer/responsible person, ask them to:
    - identify any problems, fix, build, run examples under most recent release
    - commit to continued maintenance
    - write or update the documentation

- For "orphan" examples
    - delete, or
    - assign to group member to maintain