

PACRAT Status

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Development Plans

- Re-integration of PACRAT with BaBar
 - Update to R24 (external CLHEP)
 - SVN vs CVS?
- Incorporation of Materials
 - Dedicated materials CDB (root file 60kB!)
 - Scatter trajectory between hit scoring
- 'GDML' driven DetectorModel
 - What are requirements?
- Interface to PravdaMC
 - 'Helix' interface class (GTrack?)

From March 12

Development Strategy

- Provide PACRAT as a PravdaMC option
 - compare with TrkErr in a single job
- Make PACRAT backwards-compatible with TrkErr
 - Same inputs and outputs (initially)
 - No downstream code changes required

Development Plans

- Re-integration of Pacrat with BaBar
 - Update to R24 (external CLHEP) Complete (DNB)
 - SVN vs CVS? <https://costard.lbl.gov/svn/PACRAT> (JDA)
- Incorporation of Materials
 - Dedicated materials CDB (root file 60kBI) Complete (IG)
 - Scatter trajectory between hit scoring Being Implemented (DNB)
- 'GDML' driven DetectorModel
 - What are requirements? Under Study (IG)
 - Interface to PravdaMC Being Implemented (GS)
 - 'Helix' interface class (GTrack?)

Development Issues

- PACRAT becomes a PravdaMC dependency
 - Provide 'patches'?
 - Commit PravdaMC changes to CVS?
 - Move PravdaMC to SVN?
- Access to additional information
 - True track parameters on exit of tracking volume
 - Reco track parameters + covariance on exit of tracking volume
 - Through PacTrk class

Future Plans

- Finish (initial) integration with PravdaMC
- Finish incorporation of materials, Conditions
- Implement SuperB detector configuration
 - Simulate Svt + Dch (axial + stereo)
 - Extend existing text-based configuration