ITTF Progress Report
Feb 2003

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ITTF review (September 23/24, 2002)

- **Review Committee:** Jan Balewski, Jerome Baudot, Rene Bellwied (chair), Helen Caines, Yuri Fisyak, Mike Lisa, Maria Mora-Corral, Alan Poppleton, Karel Safarik, Iwona Sakrejda, Alex Suaide, Bernd Surrow, Thomas Ullrich
- **Ex-officio:** Jamie Dunlop, David Hardtke, Morton Kaplan, Tonko Ljubicic, Jerome Lauret, Jim Thomas
- That's more people than the actual developers…

Recommendation(s)

1. The main committee recommendation is the strong endorsement of STI as the future tracking code for STAR.
2. “We recommend to officially deploy this code at some point in time (see below) and to stop support for the existing tracker at that point.”

Recommendation(s)

- "The present performance features show that the code is not yet ready for deployment."
- In short : low efficiency at low pt.

Recommendation(s)

- “We believe that to fully assess the capabilities and the implementation it is necessary for STAR to enter another dedicated development phase immediately.”
- “It is our opinion that if the core developer group can stay together and be fully dedicated, this development phase can be completed by early December.”
- “We therefore recommend an in-depth performance review by mid December.”
- “Should the STI performance at that time yield the desired results, we recommend that STAR adopt STI as the default analysis program starting at the beginning of the year-3 run in January 2003.”

Reality Check

- Core team Reduction
  - M. Miller and B. Norman shifted their focus on Physics, and getting a Ph.D...
- Active Core team reduced to Rose and Pruneau
  - Reduced development/debugging efficiency.

Developments since Review

- Modularization of the geometry and Event Loading.
- Tuning of the Track Seed Finder
- Simplification of the track finding code – more robust, and faster.
- Integration of Vertex Finder
- Bug fixes and Tuning of Track Finder for Primaries
- Implemented some of the new diagnostics requested by Reviewers
- Some Event Display Developments.

Development Before Next Review

- Known bug fixes.
- Complete MCS and ELOSS calculations (in progress) and verification of path length consistency with STAR geant.
- Additional Tuning to match TPT performance viz low pt efficiency.
- Additional Detailed Performance Diagnostics
- Resolve Integration Issues

Roll-out Plan

• 2^{nd} Review:	May 30, 31
• PWG Studies:	May 15 – 29
• Mini-Production:	May 10-15
• Final Tune:	May 1-10
• Core Team Studies:	April 16-30
• Mini-Production:	April 10-15
• Finish Development/Debugging:	March

The new ITTF Team…

- Claude (60%): Tracker Dev + Debugging.
- Andrew (80%): Tracker Dev, Mini-production, Performance Eval.
- Zbigniew (100%): Tracker Debugging, Evaluation.
- Calderon (50%): Performance Eval., Assoc.Maker, MiniMcEvent
- Lee + Victor: Integration Issues.
- Camelia: Evaluation
- Maria: FTPC Integration

The ONLY acceptable outcome is SUCCESS.