## FNAL/CD Plans for ILC Tracking and Benchmark Software

Rob Kutschke, Fermilab SiD Benchmarking Meeting January 30, 2007

## Resources

- Hans Wenzel
  - 90% starting a few days ago.
- Rob Kutschke
  - 50% now rising to 75% by early March.
- Lynn Garren
  - For now: Small fraction, mostly local infrastructure.
- Mark Fischler
  - Small fraction, will consult with Hans.
- Bob Tschirhart
  - Oversight
- ILCSIM:
  - 8 processor unix box (3.2? GHz each).
  - 8 virtual processors on 4 real processors.

## Rough Outline

- All:
  - Run the full software suite beginning to end
  - Update documentation at SLAC
  - Build FNAL specific documentation
    - http://ilc.fnal.gov/detector/rd/physics/detsim/
- Hans
  - Understand exisiting status of tracking, simulation and reconstruction.
  - Improve forward tracking. Possibilities include:
    - Better detail and fidelity in simulation.
    - Including forward hits into the kalman filters
    - Standalone forward pattern recognition
  - Expect continuous deliverables.
- Rob
  - Learn status of ZVTOP from Jan Strube.
    - If needed, help to finish this job.
  - Develop vertexing tools for classifying jets has b,c,light
  - Estimate sensitivities for B(H-> b bbar), B(H-> c cbar)
  - Have in a polished form for ILC meeting at FNAL this fall.
  - Look for new opportunities for the group.