Open MPI team at the
SuperComputing 2006
Tampa, FL
About Open MPI

• Features of Open MPI:
  ▪ Full MPI-2 implementation,
  ▪ Fast, reliable and extensible,
  ▪ Production-grade code quality as a base for research.

• Developed by an international team of industry, universities and labs:
Application demo

• With high-rise buildings, the project “Stuttgart 21” will change the face of downtown Stuttgart, Germany.

• We simulate the airflow through a model of the inner city.

• The buildings may be interactively adapted, skyscrapers moved, etc.

• The visualization allows engineers and architects to interactively optimize change configurations of buildings.
Simulation setup

- The simulation is run over SCI nets Infiniband using
- Open MPI and the OFED-Infiniband stack.

Each site below offers computational resources: