

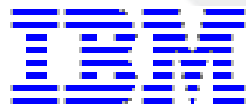


SC 2006 Open MPI Demo

Open MPI team at the
SuperComputing 2006
Tampa, FL

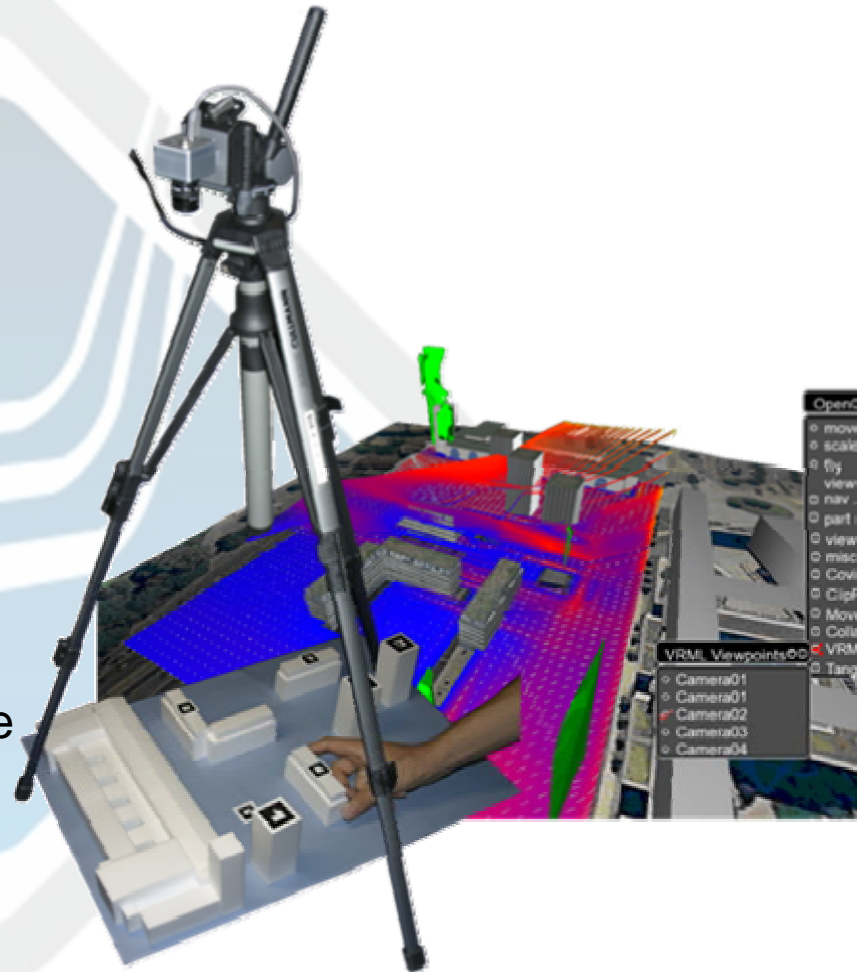
About Open MPI

- 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 SCInet Infiniband using
- Open MPI and the OFED-Infiniband stack.
- Each site below offers computational resources.

