Environmental Computing Workshop @ ISGC 2016 – Panel Discussion

Dieter Kranzlmüller

Munich Network Management Team
Ludwig-Maximilians-Universität München (LMU) &
Leibniz Supercomputing Centre (LRZ)
of the Bavarian Academy of Sciences and Humanities

Goal of the Panel

- Investigate Status Quo
- Increase mutual understanding
- Discussion potential collaborations

Defining Environmental Computging

- What is Environmental Computing ?

Questions

- Environmental Computing on IT Infrastructure
  - How to use them?
  - Apply for Cycles? Pay for Cycles?
  - Urgent Computing
  - Cloud Computing

  - From Global to Regional to Urban
    - 100-200 km ➔ 0,5-1 km

  - Do we have enough computing power available?
  - What do we need in 5-10 years?

Questions

- Data Question
  - Where are the problems?
  - How to access the data?
  - Which disciplines are currently involved in EnvComp in Asia?
  - How to collaborate across different disciplines?
  - Is there common data? GIS? Terrain Data

Questions

- Training and Eduction
  - At University?
  - With dedicated trainings?
  - Across disciplines?
  - What kind of support do you need?

Questions

- From Research to Production: Sustainability
  - Do we need dedicated funding models for support of environmental computing?

Extreme Scaling vs. Energy Efficiency - A Challenge for Computer Science

Dieter Kranzlmüller
kranzlmueller@lrz.de