

Observations

Applications sub-theme

Observations – Applications sub-theme

- Summary of issues
- What issues are critical?
- What could be nice but could do without?
- What issues are of critical importance to Singapore?
- What do we tell the fabric and middleware sub-groups?

What makes a good app?

- Separate the domain-specific challenges from the grid challenges
- What is the economic impact on Singapore?
- Why is the grid necessary for your app?
- Tingle factor
- Collaboration
- Distributed resources
 - Different types
- Drives Middleware development

Observations – Applications sub-theme

Possible application areas:

1. Media & Art, eg Cell animation.
2. Decision support systems
3. Economic forecasting and financial service related
4. E-learning
5. Life science (simulation, high throughput, grid workflow – leverage on existing work)
6. Service & Logistics Modelling,
7. Semiconductor Supply chain modeling & simulation (process-based)
8. Collaborative Product Development (product-based),
9. Complex engineering design and optimization (product-based)
10. GEO-science (2006 launch of satellite)
11. Computation Science and Engineering

Super clusters

- Scientific
 - Life Sciences
 - S&E
- Service
 - Economic, Financial
 - Media & entertainment
 - E-learning & education
- Manufacturing
 - Design, product development
 - Supply chain, decision support

General Comments...

- Need to ensure the apps people collaborate with the middleware people
- Matchmaking collaboration teams
- Awareness raising
- Need to leverage international activities and ongoing research activities

Relevant middleware issues

- Bandwidth
- Security
- HPC
- Workflow
- Large data sets
- Collaborative framework
- Interaction between business processes & grid services