
**CoreGRID WP3:
relevant work from INRIA
Grenoble (Sardes)**

Jean-Bernard Stefani

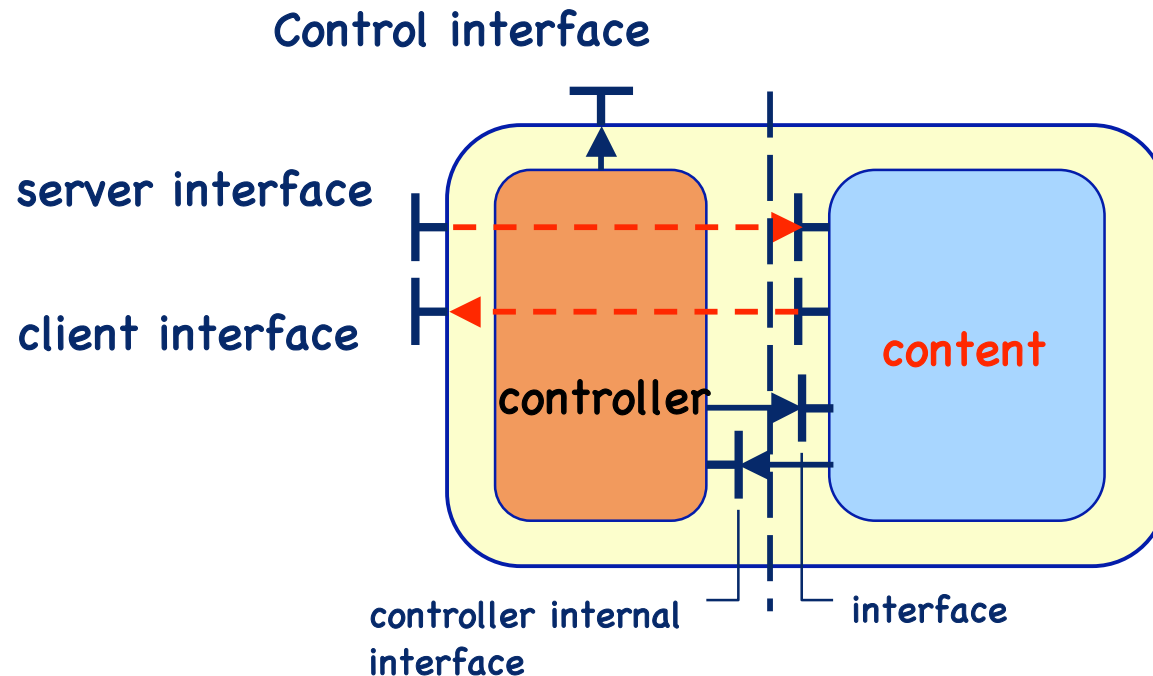
Research themes

- Component-based distributed system programming
 - ◆ lightweight reflective component model: Fractal
 - ◆ formal operational semantics through a distributed process calculus (Kell calculus from IST Mikado)
 - Autonomous distributed system management
 - ◆ architecture-based management
 - ◆ component-based distributed infrastructure
 - ◆ towards autonomic performability management
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Relevance to CoreGRID WP3

□ Task 3.2

- ◆ Fractal model (hierarchy, open MOP, component binding & sharing -- language and platform independent)



Relevance to CoreGRID WP3

□ Task 3.3

◆ Fractal support:

- ✧ Java (Julia) & C (Think) run-times
 - available at <http://www.objectweb.org>
- ✧ controller library:
 - content, lifecycle, attribute, binding, concurrency, etc
- ✧ extensible ADL
 - static and (increasingly) dynamic aspects (deployment, dynamic configuration, monitoring, concurrency management, etc)
- ✧ component-based library for communication subsystems (Dream)
 - available at <http://www.objectweb.org>

