Open Simulation Architecture : Ongoing Works and Perspectives

J. Ribault & the simuliste

Outline

- Motivations for building a new simulation platform
- BROCCOLI project
- Perspectives

Motivations

Why another simulation platform ?

Our problem: Too many already existing simulations tools:

- Comparing results are difficults
- Reinvent the wheel on each simulations platforms

Our solution: Build an integration platform (Open Simulation Architecture) to reuse existing models , engines , scenarios , instrumentations , tools and so on from others simulators (DEVS, OMNET++, NS3) or Third-part tools.

Benefits: Compare simulations results, don't reinvent the wheel, test new simulation concept

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BROCCOLI Contract

Les broccoli, c'est bon, mangez-en

Team: ADAM project-team INRIA Lille

- The Fractal Component Model
- deployment concerns

Team: ACMES project-team TELECOM & Management SudParis

- COSMOS : COntext entitieS coMpositiOn and Sharing
- instrumentation concerns

Team: MASCOTTE project-team INRIA Sophia / CNRS / I3S / UNSA

- OSA : Open Simulation Architecture
- simulation concerns and reusing

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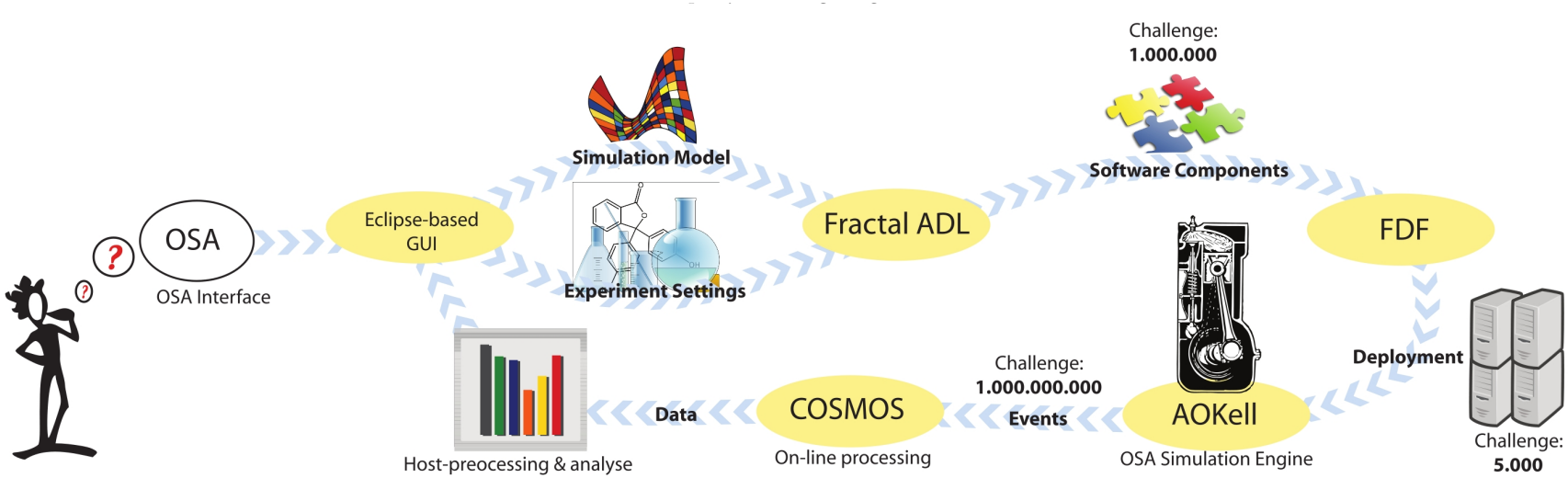

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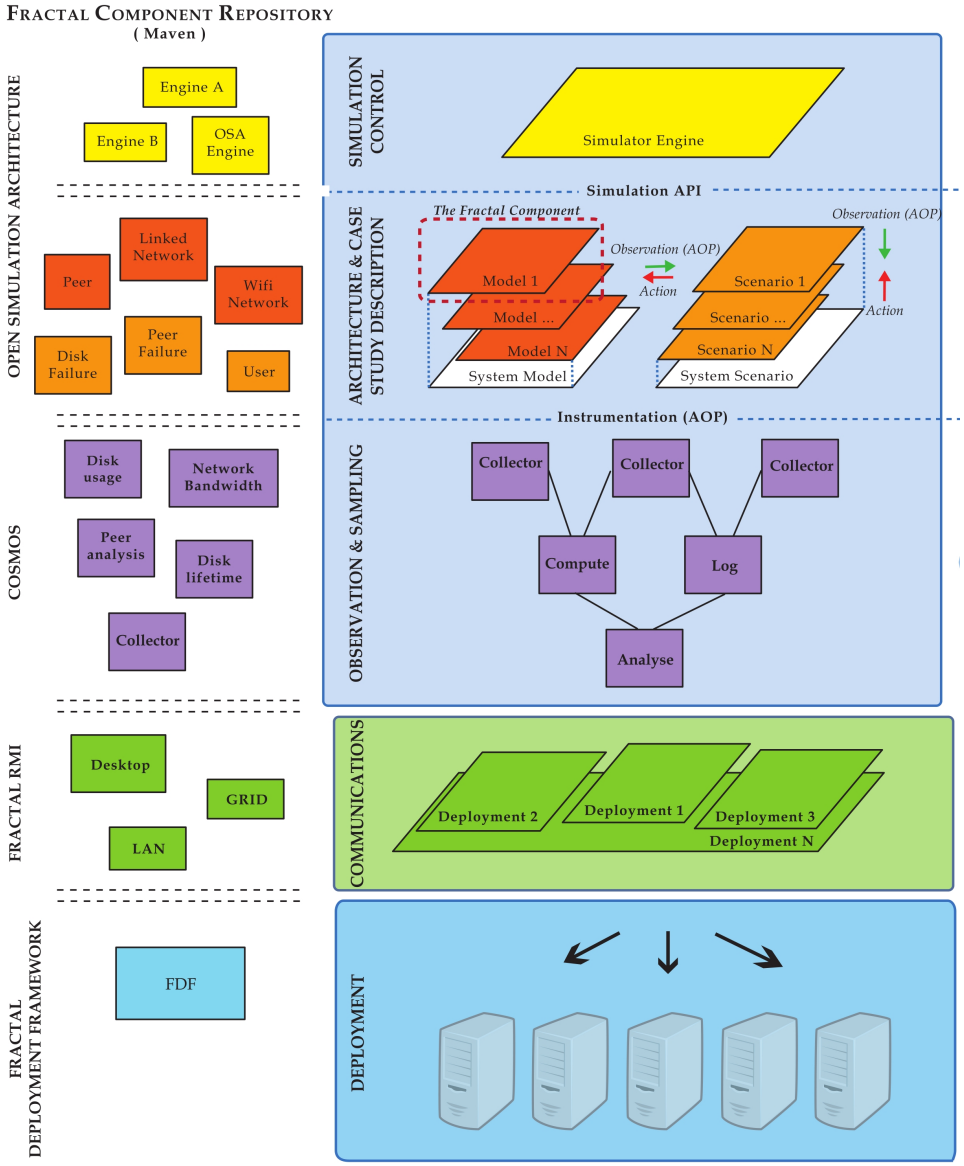

Perspectives

yaka-fokon . . .

Broccoli:

- Deploy a large scale simulation (SPREADS)
- Collect and analyse a huge quantity of data

Petri:

- simulation from Petri specifications

Reusing:

- NS3/OMNET++/DEVS

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