



Future steps and GEMMLCA / P-GRADE development roadmap



www.portal.p-grade.hu
www.cpc.wmin.ac.uk/gemlca



How to learn more on P-GRADE portal and GEMMLCA?



- Take a look at www.portal.p-grade.hu
(manuals, tutorials, service portals, installation procedure, etc.)
- Visit or request a training event! (event list also on homepage)
 - Lectures, demos, hands-on tutorials, application development support
- **Get an account for one of the production installations:**
 - NGS portal – University of Westminster
 - VOCE portal - SZTAKI
 - SEEGRID portal – SZTAKI
 - GILDA portal – SZTAKI
- **If you are the administrator of a Grid/VO then contact SZTAKI to get your own Portal installation**



Development roadmap



- Parameter study support
 - If the user has an workflow he can run it with many different parameters
 - Workflow = code to execute
 - Input files = parameters
- Built-in broker for Globus grids

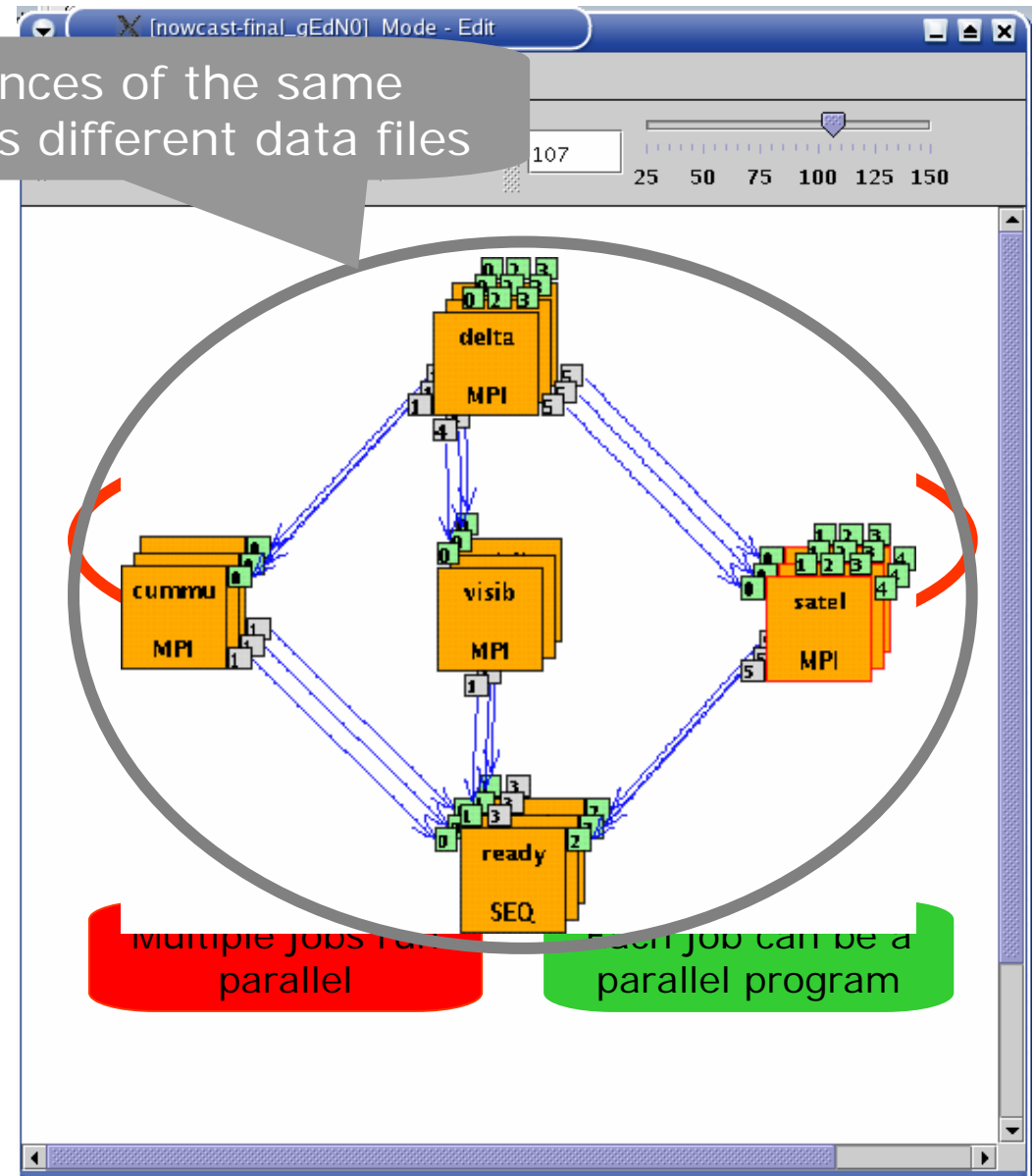


Parameter study support: Introducing the third level of parallelism



Multiple instances of the same workflow process different data files

- Parallel execution inside a workflow node (SIMD/MIMD/MISD)
- Parallel execution among workflow nodes (SIMD/MIMD/MISD)
- Parameter study execution of the workflow (SIMD)

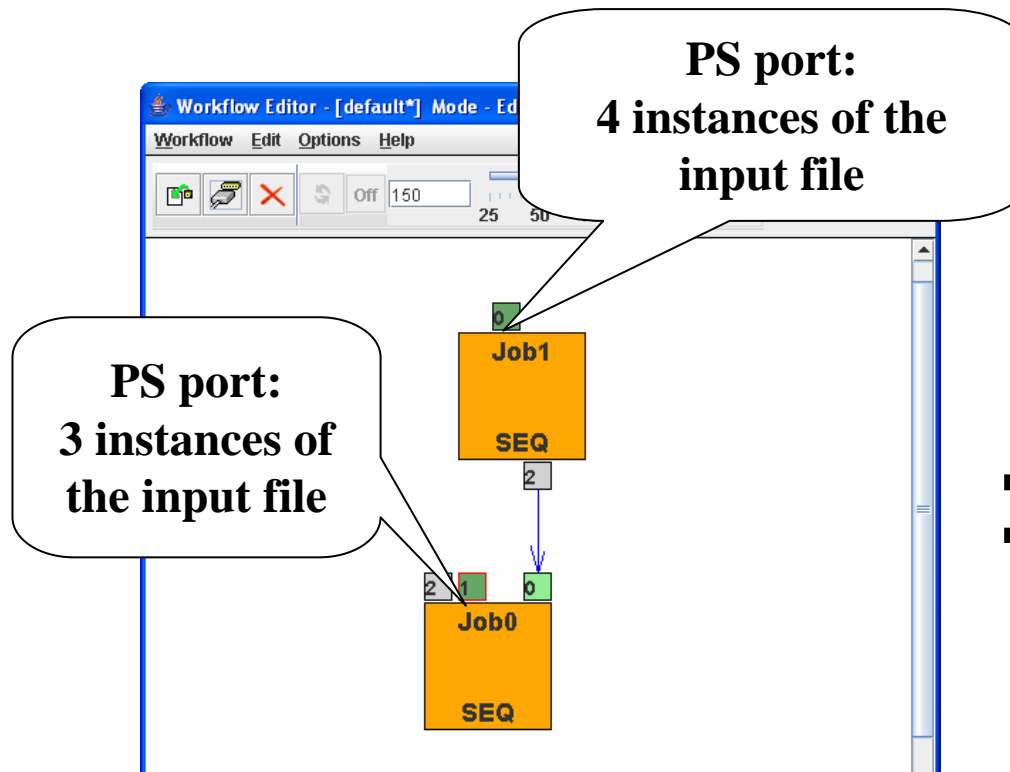




Parameter study workflow execution in P-GRADE portal 2.5

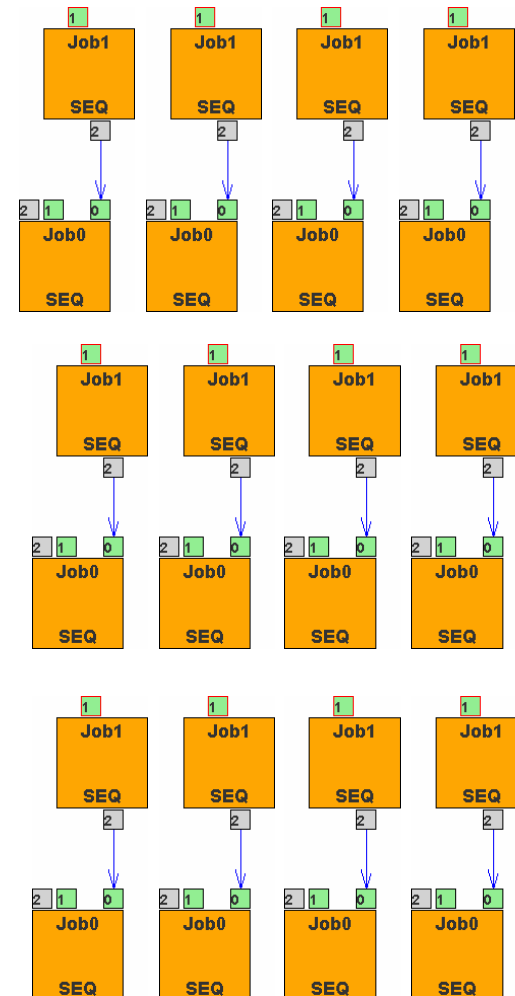


1 PS workflow execution



This provides the 3rd level of parallelism resulting a very large demand for Grid resources

4 x 3 normal workflow execution





Where are parameter study portals available?



- Official release of P-GRADE Portal 2.5: 23rd of February, 2007. www.portal.p-grade.hu
- Portal services operated by SZTAKI will be promptly upgraded
- OGF GIN VO Portal will be upgraded: **NGS**, OSG, Teragrid, EGEE, Nordugrid, ...
 - **Watch the news section on the Portal webpage!**
- GEMMLCA specific Portal will be still based on 2.4.1 → NGS GEMMLCA Portal will not support parameter studies in the near future



Broker support for Globus grids



- GTBroker: job-broker developed by SZTAKI
- Interoperable with Globus Toolkit 2 grids
- To be integrated into the Portal server
- From P-GRADE Portal 2.6
- Release expected: 2007 Q2



Learn once, use everywhere
Develop once, execute anywhere

Thank you!

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