Heteropar 2006 Panel

Serge G.Petiton
serge.petiton@inria.fr

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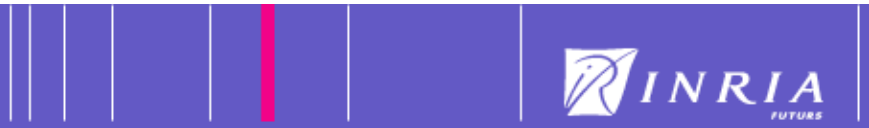
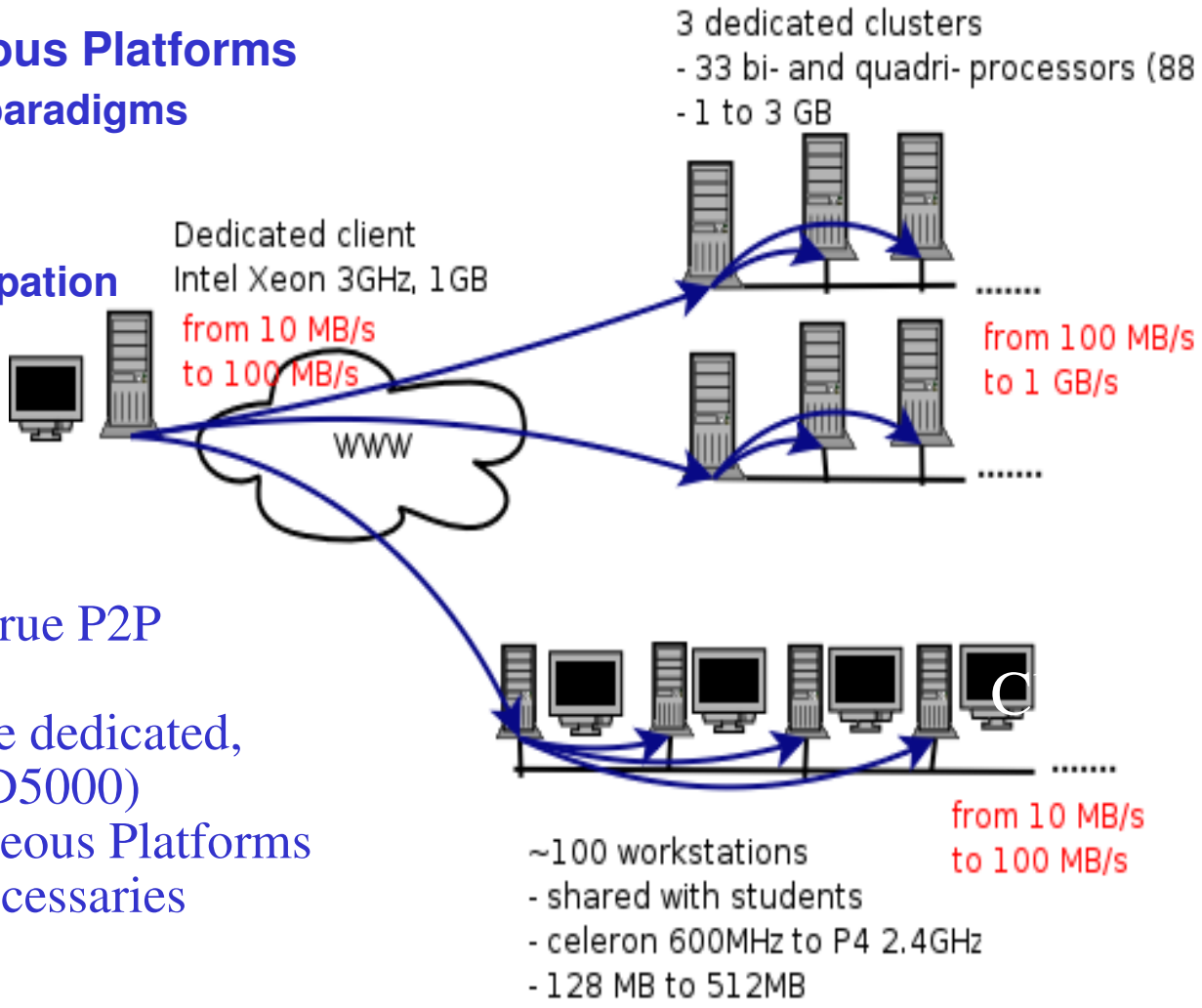


Cluster and Grid Experimentations

- **Request Heterogeneous Platforms**
  - **Multi-programming paradigms**
  - **Asynchronous calls**
  - **data persistency**
  - **data migration anticipation**
  - **……**



- Difficulties to access true P2P global platform,
- Necessity of very large dedicated, platform (such as GRID5000)
- Hybrid and Heterogeneous Platforms
- Emulations are still necessaries

High-level Language for Global Computing

- Distributed and Parallel Cluster and GRID heterogeneous and hybrid computing end-users call for smart tools and high-level language,

- Back-ends for several middleware and translators to low-level languages,

- Component-based graph programming related to scientific domains,

- Petascale computing call for 128 or 256 arithmetics.