StarPU

A runtime system for heterogeneous parallel machines

Goals:
- Dynamically schedule tasks on all processing units - CPU + GPU, Xeon Phi
- Minimize data transfers between accelerators

Target for
- Compilers
  - StarSs [UPC], HMPP [CAPS entreprise]
- Parallel Libraries
  - MAGMA [UTK, USA]

Applications
- Energy, Weather Forecast, Aeronautics, Multimedia

Langage: C (C++, Fortran)

Mots clés: GPU, multicore, scheduling, performance

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