petaQCD at LAL

- People
- Considered software activities
- Other possibilities at LAL

People/expertise

- ## G. Grosdidier
  - ➢ has coordinated the petaQCD ANR project
  - ➢ contributed to several HEP experiments and grid for LHC
  - ➢ has installed and run the IBMCell simulator
  - ➢ has contributed to the definition of Coyote layout
  - ➢ has installed and run programs on Coyote (IBM Cell testbed in Lyon) and on other test facilities

- ## G. le Meur, F. Touze
  - ➢ Computing engineers (algorithms)

- ## R. Bilhaut
  - ➢ Networking issues

- ## A. Stocchi, P. Roudeau
  - ➢ Experimentalists, motivated by LQCD results

- ## One postdoc requested

Considered software activities

- studies on data reshuffling within the application to optimize memory access

- similar studies for shared memory between multicores

- validation process for semi-automatic scenarios to reorganize algorithms (identification of significant global variables)

- (hardware or software) failure monitoring during operation (connected with check pointing)

Study of a network processor (QPACE)

- FPGA (?)
- contacts with LAL computing and electronics departments
- mentioned already at several LAL instances
- will depend on contacts with QPACE, Italy, …..