

GPU

Cédric Potterat

Reunão LAPE



- ▶ Officially: Not for Upgrade (nor Run2), it has to be seen as R&D. Do we gain something using GPU (or any other hardware structure) ?
- Parasite Strategy. Try to have another hardware structure for the online (1st, then other soft)
- ▶ usually cheap to have test machines (and CERN/LHCb already have test machine too).

in LHCb

- ▶ "convener": Niko, Xavier Vilasis (La Salle, BCN), Donatella Lucchesi (Padova)
- ▶ kick off: 1st workshop on many-core April 25, 2012. 48th A&S W.
- second kickoff when they started to appear in Indico and more people looked interested in (-> Stripping people for example)
- ▶ meeting on Friday morning ...
- ▶ would/should be used in "parasite" mode during some time in Run2. to see the real gain (if any)

Use Cases

- ► Trigger & Track Reco (Alice, NA62)
- ► Rich (NA62)

[2/s

work needed

- \blacktriangleright Service Software (need to be transparent for the (c++) user)
- ► Specific algorithm (VeLo pix, track Reco...jet Reco (?))
- ▶ I have no particular experience in GPU, I tried some CUDA examples on my own computer. (it impressed me enough to be really interested)
- ▶ I am interested.
- ► I will probably meet and discuss with Niko and Xavi beginning of May (commissioning week)

gpu [3/3