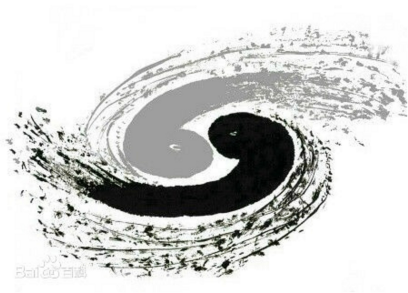


TaskRouter: A Newly Designed Online Data Processing Framework



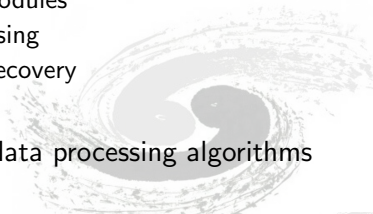
Gu Minhao, Zhu Kejun, Li Fei,
Shen Wei

Institute of High Energy Physics, CAS

June, 2016

What is TaskRouter?

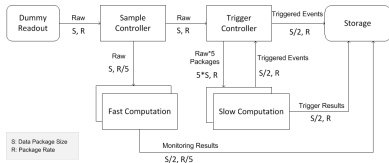
- A pure software framework for the development of flow based online data processing systems. It is
 - Distributed, with flexible data flow
 - Small and easy to use
- Its core design intends to solve the following common issues of distributed computing
 - Data transmission.
 - Monitoring the status of all data flow modules
 - Load balance for distributed task processing
 - Node failures detection and automatic recovery
- So, Framework users can focus on the data processing algorithms



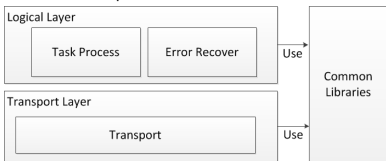
What will be shown in the poster?

- Core design
- A prototype online software based on TaskRouter
- Preliminary test results

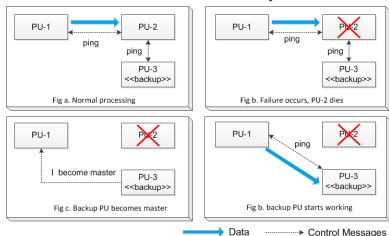
Prototype Online Processing Implementation based on TaskRouter



Component View of TaskRouter



Failure Auto Recovery



Thanks!

Wish to see you later!

