

I/O

Peter Braam @Xyratex says

An framework like SQL for HPC data / big data is
40 years overdue

We will see radically new storage interfaces with

- Distributed Containers with schemas
- Stackable API's including data management
- Nothing like a file system
- ELOW.org is workgroup exploring this

Parallel Programming

Peter Braam @ Parallel Scientific says

By 2020 C++, OpenACC etc.

will be as assembly language compared to C

Because

- Irregular automatic parallelism is important
 - Maybe not in HPC. Many core is happening everywhere
- Communication and resiliency like in Erlang: 6 9's
- Performance as in C
- Haskell is a candidate