

HDF Group report to LLNL  
December 1 – December 31, 2010  
Quincey Koziol

Summary:

During the period from December 1 to December 31, 2010 the HDF Group worked on the following tasks:

- Design Discussions (9.7 hours)
- Set up accounts at LLNL (5.0 hours)
- Misc. Admin Tasks (2.8 hours)

The **total number of hours** worked is **17.5** hours.

New tasks:

During this time period the following tasks were begun:

- *Design Discussions*
  - Discuss features and tasks to develop during project.
- *Set up accounts at LLNL*
  - Set up accounts at LLNL for Quincey and Albert.

Completed tasks:

During this time period the following tasks or sub-tasks were completed:

- <none>

Tasks in progress:

During this period of time The HDF Group worked on the following tasks:

- *Design Discussions, Quincey Koziol* (9.7 hours)
  - On-site & email design discussions about tasks for project.
- *Set up accounts at LLNL, Albert Cheng, Quincey Koziol* (5.0 hours)
  - Set up accounts at LLNL.
- *Miscellaneous tasks, Quincey Koziol* (2.8 hours)

- Planning and reporting activities.
- User discussions, status telecons & e-mail.
- Make snapshots, etc.

### Current Projects for People:

- Quincey Koziol:
  - Design VFDs to enable poor man's parallel I/O
  - Enable starting "core" VFD from existing buffer
  - Project management
- Albert Cheng:
  - Port and test HDF5 on LLNL machines

### Ongoing tasks for next reporting period:

- ***Design VFDs to enable poor man's parallel I/O, Quincey Koziol***
  - Discuss feature and write RFC for VFDs that can improve "Poor Man's Parallel" I/O on HPC systems.
- ***Enable starting "core" VFD from existing buffer, Quincey Koziol***
  - Write and circulate RFC for adding feature to library.
  - Implement feature.
- ***Port and test HDF5 on LLNL machines, Albert Cheng***
  - Stand up daily testing on LLNL machines.
  - Investigate and add tests for "poor man's parallel" I/O to HDF5 regression test suite.