Overview documentation: Papers, presentations, and tutorials

- Our Parallel NetCDF API (PDF, 152k) document describes the API we are using. We have tweaked the programming interface to be more friendly to parallel i/o while maintaining file format compatibility with the serial version of NetCDF.
- Our (SC2003 Paper about PnetCDF (PDF, 97k) discusses our library and presents some performance results.
- Jianwei Li's presentation (PDF, 167k) from the SC2003 conference.
- Unidata's serial NetCDF documentation sometimes comes in handy for comparison.
- A QuickTutorial demonstrating some simple aspects of the library, with full code examples.

Tuning

- HintsForPnetcdf describes some low-level tuning parameters
- VariableAlignment documents a way to adjust the layout of file header and variables in a dataset, and why/when you might want to do so
- CombiningOperations documents an optimization introduced in version 1.1: when waiting for completion of non-blocking operations, the library will combine all pending operations into one bigger I/O request.
- BufferedInterface documents our newest API addition: the non-blocking routines copy data to a user-provided buffer.

Hacking

- start with SourceCodeWalkthrough
- ProjectIdeas?
- TestCoverage
- DesignDiscussions: we discuss the design of pnetcdf over email mostly. We try to collect the highlights here.

Release Notes

- ReleaseNotes-1.3.1 (released on 24 September 2012)
- ReleaseNotes-1.3.0 (released on 26 June 2012)
- ReleaseNotes-1.2.0 (released on 19 August 2010)
- ReleaseNotes-1.2.0pre1 (released on 15 June 2010)
- ReleaseNotes-1.1.1 (released on 27 January 2010)
- ReleaseNotes-1.1.0 (released on 2 November 2009)
- ReleaseNotes-1.1.0pre1

Others

- NetCDF-4 can use PnetCDF. We think this is great. More information: PnetcdfAndNetcdf4
- Forrest Hoffman wrote an article about PnetCDF in the July 2004 issue of Linux Magazine.
- The HDF group at NCSA ported a serial NetCDF code to one using PnetCDF. They posted a writeup of their efforts . It's a little old but does provide some additional information to supplement `doc/porting_notes.txt`