

# Parallel-NetCDF 1.1.0

We released version 1.1.0 on 2 November 2009. This release marked a big milestone for pnetcdf and included several new features along with the usual bug fixes.

## New Features

- A new file format, CDF-5, is introduced. This format allows defining large array variables with more than  $2^{32}$  elements. Please see [NewFileFormatDefinition](#) for technical details and [NewFileFormatCode](#) for usage. We have shaken out a lot of bugs since the pre-release.
- We introduced a new optimization in parallel-netcdf with this release. If the hint "striping\_unit" is set, then pnetcdf will align the start of non-record variables to a multiple of that value. See [StripingUnitHint](#) for more information.
- Parallel-netCDF now contains a new set of APIs for reading/writing multiple variables. The existing asynchronous APIs have also been improved to enable combination of multiple variable access into fewer I/O requests. Please see [CombiningOperations](#) for some further information.
- There is now a simple pnetcdf.F90 module for F90 codes. Please consider this as an "early feedback" version and not a hard guarantee of a fixed F90 API (though we don't expect it to change drastically if at all). This module is generated from the F77 'pnetcdf.inc': thanks to Annette Koontz for the idea.
- The 'ncgen' utility can now create "big variable" (CDF-5) files, in addition to the older "big file" (CDF-2) files.

## Download

- bzip2ded tarball (13 MB): <http://ftp.mcs.anl.gov/pub/parallel-netcdf/parallel-netcdf-1.1.0.tar.bz2>
- gzipped tarball (3.5 MB): <http://ftp.mcs.anl.gov/pub/parallel-netcdf/parallel-netcdf-1.1.0.tar.gz>

SHA-1 Checksums:

- 383da14e33fc98d3e04b5906af862db7b1341851 parallel-netcdf-1.1.0.tar.gz
- fdd042ce0f054ad0ddc7d271881c54b4b1bbd3b7 parallel-netcdf-1.1.0.tar.bz2

SVN tag:

- <https://svn.mcs.anl.gov/repos/parallel-netcdf/tags/v1-1-0>

## Acknowledgements

Many thanks to Annette Koontz and Karen Schuchardt of Pacific Northwest National Laboratory for giving the "big variable" format a good shakedown before the final release. Thanks to Annette for testing the Fortran 90 module and encouraging us to add the module to the release.