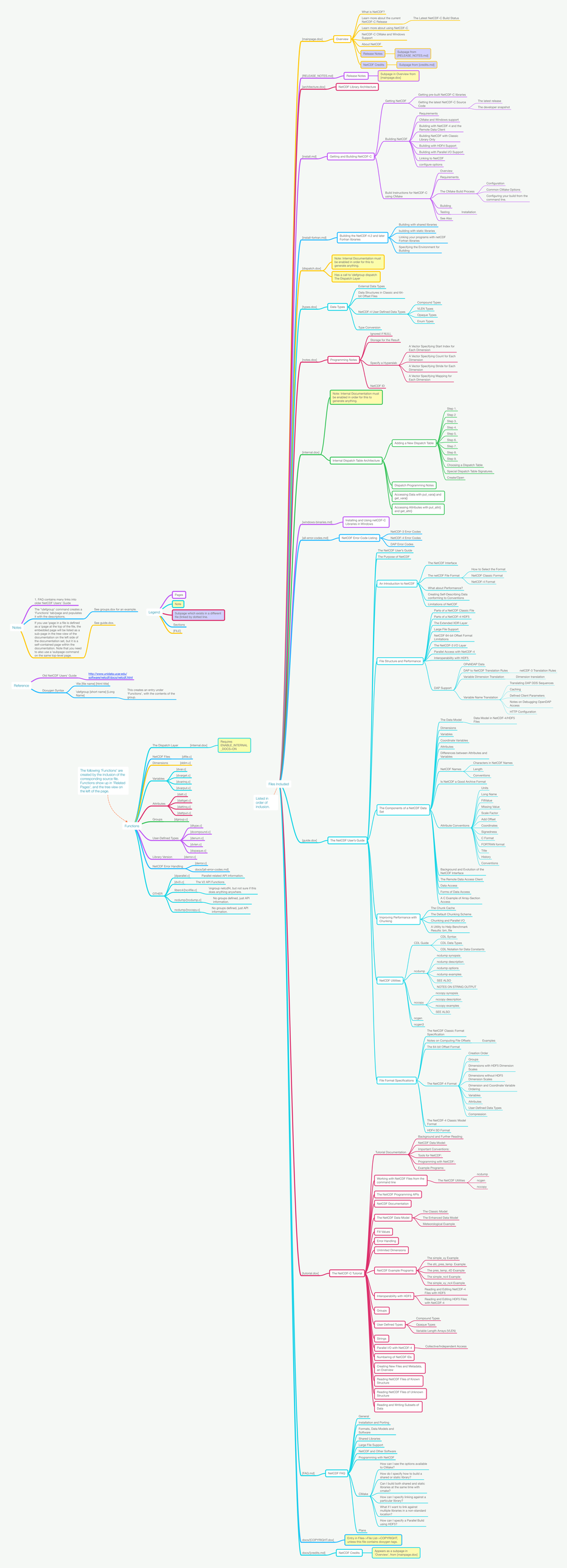
Files Included
Listed in order of inclusion.
[mainpage.dox]
Overview
What is NetCDF?
Learn more about the current NetCDF-C Release
The Latest NetCDF-C Build Status
Learn more about using NetCDF-C
NetCDF-C CMake and Windows Support
About NetCDF
Release Notes
Subpage from [RELEASE_NOTES.md]
NetCDF Credits
Subpage from [credits.md]
[RELEASE_NOTES.md]
Release Notes
Subpage in Overview from [mainpage.dox]
[architecture.dox]
NetCDF Library Architecture
[install.md]
Getting and Building NetCDF-C
Getting NetCDF
Getting pre-built NetCDF-C libraries
Getting the latest NetCDF-C Source Code
The latest release
The developer snapshot
Building NetCDF
Requirements
CMake and Windows support
Building with NetCDF-4 and the Remote Data Client
Building NetCDF with Classic Library Only
Building with HDF4 Support
Building with Parallel I/O Support
Linking to NetCDF
configure options
Build Instructions for NetCDF-C using CMake
Overview
Requirements
The CMake Build Process
Configuration
Common CMake Options
Configuring your build from the command line
Building
Testing
Installation
See Also
[install-fortran.md]
Building the NetCDF-4.2 and later Fortran libraries
Building with shared libraries
Building with static libraries
Linking your programs with netCDF Fortran libraries
Specifying the Environment for Building
[dispatch.dox]
Note: Internal Documentation must be enabled in order for this to generate anything.
Has a call to \defgroup dispatch The Dispatch Layer
[types.dox]
Data Types
External Data Types
Data Structures in Classic and 64-bit Offset Files
NetCDF-4 User Defined Data Types
Compound Types
VLEN Types
Opaque Types
Enum Types
Type Conversion
[notes.dox]
Programming Notes
Ignored if NULL
Storage for the Result
Specify a Hyperslab
A Vector Specifying Start Index for Each Dimension
A Vector Specifying Count for Each Dimension
A Vector Specifying Stride for Each Dimension
A Vector Specifying Mapping for Each Dimension
NetCDF ID
[internal.dox]
Note: Internal Documentation must be enabled in order for this to generate anything.
Internal Dispatch Table Architecture
Adding a New Dispatch Table
Step 1.
Step 2.
Step 3.
Step 4.
Step 5.
Step 6.
Step 7.
Step 8.
Step 9.
Choosing a Dispatch Table
Special Dispatch Table Signatures.
Create/Open
Dispatch Programming Notes
Accessing Data with put_vara() and get_vara()
Accessing Attributes with put_att() and get_att()
[windows-binaries.md]
Installing and Using netCDF-C Libraries in Windows
[all-error-codes.md]
NetCDF Error Code Listing
NetCDF-3 Error Codes
NetCDF-4 Error Codes
DAP Error Codes
[guide.dox]
The NetCDF User's Guide
The Purpose of NetCDF
An Introduction to NetCDF
The NetCDF Interface
The netCDF File Format
How to Select the Format
NetCDF Classic Format
NetCDF-4 Format
What about Performance?
Creating Self-Describing Data conforming to Conventions
Limitations of NetCDF
File Structure and Performance
Parts of a NetCDF Classic File
Parts of a NetCDF-4 HDF5
The Extended XDR Layer
Large File Support
NetCDF 64-bit Offset Format Limitations
The NetCDF-3 I/O Layer
Parallel Access with NetCDF-4
Interoperability with HDF5
DAP Support
OPeNDAP Data
DAP to NetCDF Translation Rules
netCDF-3 Translation Rules
Variable Dimension Translation
Dimension translation
Variable Name Translation
Translating DAP DDS Sequences
Caching
Defined Client Parameters
Notes on Debugging OpenDAP Access
HTTP Configuration
The Components of a NetCDF Data Set
The Data Model
Data Model in NetCDF-4/HDF5 Files
Dimensions
Variables
Coordinate Variables
Attributes
Differences between Attributes and Variables
NetCDF Names
Characters in NetCDF Names
Length
Conventions
Is NetCDF a Good Archive Format
Attribute Conventions
Units
Long Name
FillValue
Missing Value
Scale Factor
Add Offset
Coordinates
Signedness
C Format
FORTRAN format
Title
History
Conventions
Background and Evolution of the NetCDF Interface
The Remote Data Access Client
Data Access
Forms of Data Access
A C Example of Array-Section Access
Improving Performance with Chunking
The Chunk Cache
The Default Chunking Scheme
Chunking and Parallel I/O
A Utility to Help Benchmark Results: bm_file
NetCDF Utilities
CDL Syntax
CDL Guide
CDL Data Types
CDL Notation for Data Constants
ncdump
ncdump synopsis
ncdump description
ncdump options
ncdump examples
SEE ALSO
NOTES ON STRING OUTPUT
ncgen
ncgen synopsis
ncgen description
ncgen examples
SEE ALSO
ncgen3
ncgen3
ncdump
ncgen
nccopy
nccopy
File Format Specifications
The NetCDF Classic Format Specification
Notes on Computing File Offsets
Examples
The 64-bit Offset Format
The NetCDF-4 Format
Creation Order
Groups
Dimensions with HDF5 Dimension Scales
Dimensions without HDF5 Dimension Scales
Dimension and Coordinate Variable Ordering
Variables
Attributes
User-Defined Data Types
Compression
The NetCDF-4 Classic Model Format
HDF4 SD Format
[tutorial.dox]
The NetCDF-C Tutorial
Tutorial Documentation
Background and Further Reading
NetCDF Data Model
Important Conventions
Tools for NetCDF
Programming with NetCDF
Example Programs
Working with NetCDF Files from the command line
The NetCDF Utilities
ncdump
ncgen
nccopy
The NetCDF Programming APIs
NetCDF Documentation
The NetCDF Data Model
The Classic Model
The Enhanced Data Model
Meteorological Example
Fill Values
Error Handling
Unlimited Dimensions
NetCDF Example Programs
The simple_xy Example
The sfc_pres_temp Example
The pres_temp_4D Example
The simple_nc4 Example
The simple_xy_nc4 Example
Interoperability with HDF5
Reading and Editing NetCDF-4 Files with HDF5
Reading and Editing HDF5 Files with NetCDF-4
Groups
User Defined Types
Compound Types
Opaque Types
Variable Length Arrays (VLEN)
Strings
Parallel I/O with NetCDF-4
Collective/Independent Access
Numbering of NetCDF IDs
Creating New Files and Metadata, an Overview
Reading NetCDF Files of Known Structure
Reading NetCDF Files of Unknown Structure
Reading and Writing Subsets of Data
[FAQ.md]
NetCDF FAQ
General
Installation and Porting
Formats, Data Models and Software
Shared Libraries
Large File Support
NetCDF and Other Software
Programming with NetCDF
CMake
How can I see the options available to CMake?
How do I specify how to build a shared or static library?
Can I build both shared and static libraries at the same time with cmake?
How can I specify linking against a particular library?
What if I want to link against multiple libraries in a non-standard location?
How can I specify a Parallel Build using HDF5?
Plans
[docs/COPYRIGHT.dox]
Entry in Files->File List->COPYRIGHT, unless this file contains doxygen tags.
[docs/credits.md]
NetCDF Credits
Appears as a subpage in "Overview", from [mainpage.dox]
Functions
The following "Functions" are created by the inclusion of the corresponding source file. Functions shows up in "Related Pages", and the tree view on the left of the page.
The Dispatch Layer
[internal.dox]
Required: ENABLE_INTERNAL_DOCS=ON
NetCDF Files
[dfile.c]
Dimensions
[ddim.c]
Variables
[dvar.c]
[dvarget.c]
[dvarinq.c]
[dvarput.c]
Attributes
[datt.c]
[dattget.c]
[dattinq.c]
[dattput.c]
Groups
[dgroup.c]
User-Defined Types
[dtype.c]
[dcompound.c]
[denum.c]
[dvlen.c]
[dopaque.c]
Library Version
[derror.c]
NetCDF Error Handling
[derror.c]
docs/all-error-codes.md]
OTHER
[dparallel.c]
Parallel-related API information.
[dutil.c]
The V2 API Functions
libsrc4/nc4file.c)
Ungroup netCDF, but not sure if this does anything anywhere.
ncdump/ncdump.c)
No groups defined, just API information.
ncdump/nccopy.c)
No groups defined, just API information.
Notes
1. FAQ contains many links into older NetCDF Users' Guide
The "\defgroup" command creates a "Functions" listpage and populates it with the descriptions.
If you use 'page in a file is defined as a subpage in the file, and the embedded page will be listed as a sub-page in the tree-view of the documentation on the left side of the documentation set, but it is a self-contained page within the documentation. Note that you need to also use a subpage command on the same top-level page.
See groups.dox for an example.
See guide.dox.
Legend
Pages
Note
Subpage which exists in a different file (linked by dotted line.
Sections
[FILE]
Reference
Old NetCDF Users' Guide
http://www.unidata.ucar.edu/software/netcdf/docs/netcdf.html
Doxygen Syntax
\file [file name] [html title]
\defgroup [short name] [Long Name]
This creates an entry under "Functions", with the contents of the group.