

Getting & Building NetCDF-C

Unidata Training Workshop 2012

Downloading the NetCDF-C source-code

- Homepage: <http://www.unidata.ucar.edu/netcdf>
- Latest stable code: <http://www.unidata.ucar.edu/downloads/netcdf/>
- Developer Snapshot via Subversion: svn co <http://svn.unidata.ucar.edu/repos/netcdf/trunk>

Step	Autotools	CMake
Configure	configure [OPTIONS (see table 2)]	cmake .. [OPTIONS (see table 2)]
Build	make	make cmake --build .
Test	make check	make test cmake --build . --target test (Unix/Linux) cmake --build . --target RUN_TESTS (Windows)
Install	make install	make install cmake --build . --target install

TABLE 1. THE STEPS REQUIRED TO BUILD NETCDF-C.

Option	Autotools	CMake
Specify install location.	--prefix= <i>PREFIX</i>	-D"CMAKE_INSTALL_PREFIX= <i>PREFIX</i> "
Enable/Disable netcdf-4	--enable-netcdf-4* --disable-netcdf-4	-D"ENABLE_NETCDF_4= <i>ON</i> "* -D"ENABLE_NETCDF_4= <i>OFF</i> "
Enable/Disable DAP	--enable-dap* --disable-dap	-D"ENABLE_DAP= <i>ON</i> "* -D"ENABLE_DAP= <i>OFF</i> "
Enable/Disable Utilities	--enable-utilities* --disable-utilities	-D"BUILD_UTILITIES= <i>ON</i> "* -D"BUILD_UTILITIES= <i>OFF</i> "
Specify shared/static libraries	--enable-shared* --enable-static	-D"BUILD_SHARED_LIBS= <i>ON</i> "* -D"BUILD_SHARED_LIBS= <i>OFF</i> "
Enable/Disable tests	--enable-testsets* --disable-testsets	-D"ENABLE_TESTS= <i>ON</i> "* -D"ENABLE_TESTS= <i>OFF</i> "

TABLE 2. COMMON OPTIONS USED WHEN CONFIGURING NETCDF-C.
*default value

Build Package	Linking against library 'mylib.lib', installed in a non-standard location.
autotools	CPPFLAGS="-I/my/include/location"\ LDFLAGS="-L/my/lib/location" .configure
CMake	cmake .. -D"MYLIB_LIBRARIES=/my/lib/location/mylib.lib"\ -D"MYLIB_INCLUDE_DIRS=/my/include/location"

TABLE 3. SPECIFYING DEPENDENCIES WHICH ARE INSTALLED IN A NON-STANDARD LOCATION.

Getting NetCDF-C Support

- email: support-netcdf@unidata.ucar.edu
- Help & Support: <http://www.unidata.ucar.edu/netcdf/#help>
- FAQ: http://www.unidata.ucar.edu/netcdf/#netcdf_fa
- Documentation: <http://www.unidata.ucar.edu/netcdf/#documentation>