

# RFC: nagg --version option to report nagg version

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## 1. Purpose

The intent of this document is to describe the proposed --version option for the nagg command.

## 2. User stories

A user has downloaded several prototype versions of nagg. There are several reasons for checking the version of the nagg executable in use:

- To determine the version used when reporting a problem.
- To check the version in use as new versions are released.
- To select the latest versions to keep when multiple nagg executables are found and earlier versions are to be deleted.

## 3. Requirement Specification

The version option will print the major.minor.release versions of the nagg tool and the external HDF5\_HL\_REGION and HDF5 libraries with which it was built. It should also list the external libraries and versions used to build those HDF5\_HL\_REGION (hdf5lib) and HDF5 libraries (zlib and szip) and the capability (encode/decode or decode only) of szip if it was included.

Nagg will print version output and exit if --version is specified alone, or print version output followed by output from other nagg command options and arguments if others are specified.

### 3.1 Option Syntax

`--version`

Prints the version of the nagg tool in one of these forms:

nagg: Version 1.4.0, released on <date>

or

nagg: Version 1.4.1-pre1, currently under development

Built on these libraries:

HDF5\_HL\_REGION[ version x.y.z], using external libraries:  
hdf5lib[ version A.B.C]

HDF5 library version D.E.F, using external libraries:  
zlib[ version g.h.i]  
szip (encoder or decoder)[ version j.k.l]

## 4. Required documentation updates

### 4.1 Update for Reference Manual

These are the current and proposed reference manual entries for the `--version` option. The idea of using the first file encountered as the example file has been eliminated.

#### Proposed new entry

`--version`

Displays the version of the nagg tool and of libraries on which nagg is dependent:

nagg: Version *M.m.r*-<subrelease>, currently under development | released on <date>

Built on these libraries:

HDF5\_HL\_REGION[ version x.y.z], using external libraries:  
hdf5lib[ version A.B.C]

HDF5 library version D.E.F, using external libraries:  
zlib[ version g.h.i]  
szip (encoder or decoder)[ version j.k.l]

This option may be used alone or with other options and arguments. The version text in [] will appear when versions are available, but will be omitted if as in version 1.4.0 they are not available.

## 4.2 User Examples document additions

```
nagg --version
```

displays the major.minor.release version of the nagg tool followed by the subrelease version and the string “currently under development” for development snapshots, or by “released on <date of release>” for release versions. Should also display versions of libraries on which nagg is dependent.

## 5 Test Specification

Check output for

- Presence of always present strings such as “nagg: Version”, “HDF5\_HL\_REGION”...” using external libraries:”, and “HDF5 library version”...”using external libraries:”
- major, minor, and subrelease digits matching NAGG\_VER\_MAJOR, NAGG\_VER\_MINOR, and NAGG\_VER\_RELEASE in nagg.h