h5check
Version: 2.0.1

Syntax:

    h5check *[options] file*

Purpose:

    Verifies that an HDF5 file is encoded according to the HDF5 File Format Specification.

Motivation:

    h5check is a validation tool designed to verify that an HDF5 file is encoded according to the *HDF5 File Format Specification*. The purpose is to ensure data model integrity and long-term compatibility between evolving versions of the HDF5 Library.

    Note that h5check is designed and implemented without any use of the HDF5 Library.

Description:

    Given a file, h5check scans through the encoded content, verifying it against the defined library format. If it finds any non-compliance, h5check prints the error and the reason behind the non-compliance; if possible, it continues the scanning. If h5check does not find any non-compliance, it prints an approval statement upon completion.

    By default, the file is verified against the latest version of the file format; as of this writing, that is the format recognized by the HDF5 Release 1.8.x series. A format version can be explicitly specified with the -f*n* (or --format=*n*) option. For example, -f16 (or --format=16) would specify verification against the format recognized by the HDF5 Release 1.6.x series.

Options:

-h or *--help*	Print a usage message and exit.
-V or *--version*	Print version number and exit.
-vn or *--verbose=n*	Set verbose mode:
n=0	Terse Indicate only whether file is compliant.
n=1	Default Print progress and all errors found.
n=2	Verbose Print all known information, usually for debugging.
-e or --external	Validate external links existing in the file.
-fn or *--format=n*	Set library release version against which the file is to be validated:
n=16	Validate according to release 1.6.*x* series.

n=18	Validate according to release 1.8.*x* series. (*Default*)
`-oa` or `--object=a`	Check object header, where `a` is the address of the object header to be validated.

Exit Status:

0	Succeeded.
1	Command failures such as argument errors.
2	Format compliance errors found.