

CactusExternal/HDF5

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Abstract

Thorn *IOHDF5* provides the following utility programs:

- **hdf5_double_to_single**
Copies the entire contents of an input HDF5 file to an output HDF5 file, converting all double precision datasets to single precision.
- **hdf5_merge**
Merges a list of HDF5 input files into a single HDF5 output file. This can be used to concatenate HDF5 output data created as one file per timestep.
- **hdf5_extract**
Extracts a given list of named objects (groups or datasets) from an HDF5 input file and writes them into a new HDF5 output file. This is the reverse operation to what `hdf5_merge.c` does. Useful eg. for extracting individual timesteps from a time series HDF5 datafile.

All utility programs are located in the `src/util/` subdirectory of thorn *IOHDF5*. To build the utilities just do a

```
make <configuration>-utils
```

in the Cactus toplevel directory. The executables will then be placed in the `exe/<configuration>/` subdirectory.

All utility programs are self-explaining – just call them without arguments to get a short usage info. If any of these utility programs is called without arguments it will print a usage message.