Date: 5 Jul, 22

First implementation of HDF5 r/w in Julia

Importing needed libraries

```
try # Trying to import
using HDF5, H5Zblosc, H5Zbzip2, H5Zlz4, H5Zzstd

catch # Installing - if there are not added yet - and importing them

begin
using Pkg; Pkg.add("HDF5, H5Zblosc, H5Zbzip2, H5Zlz4, H5Zzstd")
using HDF5, H5Zblosc, H5Zbzip2, H5Zlz4, H5Zzstd
end

end
```

Working with the .hd5 file

```
📫 HDF5.File: (read-only) /home/saleh/jul/t.hd5
                CLASS
        – 

PYTABLES_FORMAT_VERSION

Output

Description

Output

Description
                  TITLE
      ─ VERSION
    — 🔢 ScopeData
                         🗕 🍆 CLASS
                          − ┡ FIELD_0_FILL
                      FIELD_0_NAME
                  FIELD_0_NAME
FIELD_10_FILL
FIELD_10_NAME
FIELD_11_FILL
FIELD_11_NAME
FIELD_12_FILL
FIELD_13_FILL
FIELD_13_NAME
FIELD_14_FILL
FIELD_14_FILL
FIELD_15_FILL
FIELD_15_FILL
FIELD_15_NAME
                   FIELD_15_FILL
FIELD_15_NAME
FIELD_16_FILL
FIELD_17_FILL
FIELD_17_NAME
                                  FIELD_17_NAME
                      ├ 🏅 FIELD_18_FILL
                                              # Specifying the directory
                                            fileDir = "/home/saleh/jul/t.hd5"
                                               # Opening the file in a protected-read-only permission
                                            File = HDF5.h5open(fileDir, "r")
```

Preprocessing

In this stage, we store the data into a dictionary. Keys are the names of datasets and values are some arrays of NamedTuples.

```
begin

Data = Dict()

for name in keys(File)

Data[name] = read(File[name])
end

end

end
```

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