**HDF5 saving**

The general approach is that if any element of the akka-graph wants to save data – it sends it as a message to a FileManagerActor. This actor will examine the data and assign a DatasetActor (if it is a new kind of dataset).

Each DatasetActor will save initially store the data in RAM and will then periodically flush it to temporary HDF5 files. This way there is no chance that the computer will run out of RAM etc. At the end of the experiment the FileManagerActor will create an HDF5 file for the experiment and each DatasetActor will read and write its data to this file. Finally all temporary files are removed.

Text

Description automatically generated

This is all that is needed to have the data stored. A file like this can be attached to any sink/flow/sourceMethod.