```
BaseSweeper
# start
# end
# num
# endpoint
# num list
# rank
# size
# MPI use
# CUDA use
# apu num
# gpu limit
# print info
# save data
+ BaseSweeper()
+ BaseSweeper()
+ get value from idx()
+ get_start()
+ get_end()
+ get_number of pts()
+ set_MPI_info()
+ set CUDA info()
+ set_print info()
+ set save data()
+ ~BaseSweeper()
# generate num list()
      HPSweeper
    + HPSweeper()
    + HPSweeper()
    + run()
```