

Synergia2 - Bug #12177

Hdf_file class fails on reading diagnostics in the libffgsvopenmp-ql branch

04/06/2016 11:36 AM - Eric Stern

Status:	Remission	Start date:	04/06/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
reproduce by:			
build the libffgsvopenmp-ql branch			
go to examples/fodo			
synergia fodo.py			
syndiagplot diagnostics.h5 x_std			
Results in:			
HDF5-DIAG: Error detected in HDF5 (1.8.11) thread 0:			
#000: H5D.c line 334 in H5Dopen2(): not found			
major: Dataset			
minor: Object not found			
#001: H5Gloc.c line 430 in H5G_loc_find(): can't find object			
major: Symbol table			
minor: Object not found			
#002: H5Gtraverse.c line 861 in H5G_traverse(): internal path traversal failed			
major: Symbol table			
minor: Object not found			
#003: H5Gtraverse.c line 641 in H5G_traverse_real(): traversal operator failed			
major: Symbol table			
minor: Callback failed			
#004: H5Gloc.c line 385 in H5G_loc_find_cb(): object 'std_storage_order' doesn't exist			
major: Symbol table			
minor: Object not found			
Traceback (most recent call last):			
File "/home/egstern/syn2-libffftest/install/lib/synergia_tools/diag_plot.py", line 203, in <module>			
do_plots(options, plotparams)			
File "/home/egstern/syn2-libffftest/install/lib/synergia_tools/diag_plot.py", line 194, in do_plots			
do_plot(inputfile, options, plotparams, multiple_files)			
File "/home/egstern/syn2-libffftest/install/lib/synergia_tools/diag_plot.py", line 162, in do_plot			
ymaster = hdf5_read_any(f, params.y_attr)			
File "/home/egstern/syn2-libffftest/install/lib/synergia_tools/diag_plot.py", line 145, in hdf5_read_any			
return hdf5_file.read_array2d(member)			
RuntimeError: unidentifiable C++ exception			
In this branch, the ordering of the particle array has been switched to fortran order for vectorization which apparently causes hdf5 trouble. I can successfully read the data with tables python module.			

History

#1 - 04/06/2016 02:23 PM - Eric Stern

- Status changed from New to Remission

The synergia tools in the devel branch is able to read these files, so the problem is in the file reading code in the libff branch. I'm putting this into remission so there won't be problems when the libff branch gets merged into the main branch.