IO

Class_IO

-ctrl_file: character(:)
-ctrl_unit: integer
-physics_config_file: character(:)
-physics_config_unit: integer
-io_config_file: character(:)
-io_config_uinit: integer
-read_file: character(:)
-read_unit: integer
-read_fmt: character(:)
-output_file: character(:)
-output_uinit: integer
-output_fmt: character(:)
-output_freq: integer
-statistic_file: character(:)
-statistic_unit: integer
-statistic_fmt: character(:)
-statistic_freq: integer
-colloid_file: character(:)
-colloid_unit: integer
-colloid_fmt: character(:)
-colloid_freq: integer
-restart_file: character(:)
-restart_unit: integer
-restart_fmt: character(:)
-restart_freq: integer

+io_new()
-io_init_default(out this:IO,out stat_info:integer)

set default io parameters for poiseuille

-io_init(out this:IO,out io_ctrl:Control,out io_phy:Physics,out stat_info:integer)

using default contrl file name

-io_init_with_ctrl(out this:IO,out io_ctrl:Control,in io_ctrl_file:character(:),
out io_phy:Physics,out stat_info:integer)

control file name given from outside

+io_finalize(in this:IO,out stat_info:integer)
+io_adjust_parameters(inout this:IO,in d_phys:Physics,out stat_info:integer)
+io_display_parameters(in this:IO,out stat_info:integer)
-io_read_ctrl(in this:IO,out ctrl:Control,out stat_info:integer)
-io_read_physics_config(in this:IO,out d_phy:Physics,out stat_info:integer)
-io_read_io_config(in this:IO,out stat_info:integer)
+io_read_particles(in this:IO,inout d_particles:Particles,out stat_info:integer)
+io_write_particles()
-io_write_particles_general(in this:IO,in rank:integer,in step:integer,in time:real,
in num_part:integer,in particles:Particles,in read_particles:logical,
out stat_info:integer)
-io_write_particles_concrete(in this:IO,in rank:integer,in step:integer,in time:real,
in num_part:integer,in x:real(:,:),in v:real(:,:),in ap:real(:,
:),in id:integer(:,:),in read_particles:logical,out stat_info:integer)
+io_open_statistic(in this:IO,in rank:integer,in read_particles:logical,out stat_info:integer)
+io_write_statistic()
-io_write_statistic_general(in this:IO,in rank:integer,in step:integer,in time:real,
in statistic:Statistic,stat_info:integer)
-io_write_statistic_concrete(in this:IO,in rank:integer,in step:integer,in time:real,
in k_energy:real,in mom:real(:),in v_aver:real(:),out stat_info:integer)
+io_open_colloid(in this:IO,in rank:integer,in read_particles:logical,out stat_info:integer)
+io_write_colloid()
-io_write_colloid_general(in this:IO,in rank:integer,in step:integer,in time:real,
in colloid:Colloid,out stat_info:integer)
-io_write_colloid_concrete(in this:IO,in rank:integer,in step:integer,in time:real,
in f:real(:),out stat_info:integer)
+io_write_restart()
-io_write_restart_general(in this:IO,in rank:integer,in step:integer,in time:real,
in num_part:integer,in particles:Particle,out stat_info:integer)
-io_write_restart_concrete(in this:IO,in rank:integer,in step:integer,in time:real,
in num_part:integer,in d_x:real(:,:),in d_v:real(:,:),
in d_ap:real(:,:),in d_id:integer(:,:),out stat_info:integer)
+io_check_io_config(in this:IO,out stat_info:integer): logical

check if io parameters resonable