Namelist found: /home/amin/work/Smilei-master/tst3d_4_laser_wake.py

```
 ___            ()  |T     _  ()  ¥¯¥     Version : ??-??
/   |   _      _  || _    ()  ||
¥_ ¥ ┌,¯¥    | | /_)     ||
|__/ |_||_| |_| |] ¥__| |] |T ||
                                        /_/
```

Reading the simulation parameters

-
 HDF5 version 1.10.1
        [WARNING] Smilei suggests using HDF5 version 1.8.16
        [WARNING] Newer version are not tested and may cause the code to behave
incorrectly
        [WARNING] See
http://hdf-forum.184993.n3.nabble.com/Segmentation-fault-using-H5Dset-extent-in-parallel-
td4029082.html
        Python version 2.7.5
        Parsing pyinit.py
        Parsing ??-??
        Parsing pyprofiles.py
        Parsing tst3d_4_laser_wake.py
        Parsing pycontrol.py
        Calling python _smilei_check

 Geometry: 3d3v

-
        (nDim_particle, nDim_field) : (3, 3)
        Interpolation_order : 2
        (res_time, sim_time) : (8.064516, 223.944000)
        (n_time,   timestep) : (1806, 0.124000)
                  timestep = 0.993721 * CFL
        dimension 0 - (res_space, sim_length) : (8.000000, 112.000000)
                    - (n_space_global, cell_length) : (896, 0.125000)
        dimension 1 - (res_space, sim_length) : (0.333333, 120.000000)
                    - (n_space_global, cell_length) : (40, 3.000000)
        dimension 2 - (res_space, sim_length) : (0.333333, 120.000000)
                    - (n_space_global, cell_length) : (40, 3.000000)

 Load Balancing:

-

        Patches are initially homogeneously distributed between MPI ranks. (initial_balance = false)
        Load balancing every 20 iterations.
        Cell load coefficient = 1.000000
        Frozen particle load coefficient = 0.100000

 Initializing MPI

 _

        Number of MPI process : 1
        Number of patches :
                dimension 0 - number_of_patches : 128
                dimension 1 - number_of_patches : 4
                dimension 2 - number_of_patches : 4
        Patch size :
                dimension 0 - n_space : 7 cells.
                dimension 1 - n_space : 10 cells.
                dimension 2 - n_space : 10 cells.
        Dynamic load balancing frequency: every 20 iterations.

 OpenMP

 _

        Number of thread per MPI process : 1

 Initializing the restart environment

 _

 Initializing moving window

 _

        Moving window is active:
                velocity_x : 0.999700
                time_start : 112.000000

 Initializing particles & fields

 _

        Creating Species : electron
        Laser parameters :

```
            Laser #0: custom profile
                    omega                 : 1
                    chirp_profile      : 1D built-in profile `tconstant`
                    time envelope      : 1D built-in profile `tgaussian`
                    space envelope (y) : 2D user-defined function
                    space envelope (z) : 2D user-defined function
                    phase          (y) : 2D user-defined function
                    phase          (z) : 2D user-defined function
        Adding particle walls:
                Nothing to do
```

Initializing Patches

-

```
        First patch created
                Approximately 10% of patches created
                Approximately 20% of patches created
                Approximately 30% of patches created
                Approximately 40% of patches created
                Approximately 50% of patches created
                Approximately 60% of patches created
                Approximately 70% of patches created
                Approximately 80% of patches created
                Approximately 90% of patches created
        All patches created
```

Creating Diagnostics, antennas, and external fields

-

```
        Created particle diagnostic #0: species electron
                Axis moving_x from 0 to 112 in 896 steps
                Axis px from -1 to 2 in 100 steps
        Diagnostic Fields #0  :
                Ex Ey Jx Rho
        Probe diagnostic #0 created
                896 points
                corner 0 : 0, 60, 60
                corner 1 : 112, 60, 60
        Probe diagnostic #1 created
                896x40 points (total = 35840)
                corner 0 : 0, 30, 60
                corner 1 : 0, 90, 60
                corner 2 : 112, 30, 60
        Done initializing diagnostics
^A
```

Applying external fields at time t = 0

-

 Initializing diagnostics

-

 Running diags at time t = 0

 OpenMP

-
        Number of thread per MPI process : 1

 Initializing the restart environment

-

 Initializing moving window

-
        Moving window is active:
                velocity_x : 0.999700
                time_start : 112.000000

 Initializing particles & fields

-
        Creating Species : electron
        Laser parameters :
                Laser #0: custom profile
                    omega   : 1
                    chirp_profile   : 1D built-in profile `tconstant`
                    time envelope   : 1D built-in profile `tgaussian`
                    space envelope (y) : 2D user-defined function
                    space envelope (z) : 2D user-defined function
                    phase   (y) : 2D user-defined function
                    phase   (z) : 2D user-defined function
        Adding particle walls:
                Nothing to do

Initializing Patches

_

    First patch created
            Approximately 10% of patches created
            Approximately 20% of patches created
            Approximately 30% of patches created
            Approximately 40% of patches created
            Approximately 50% of patches created
            Approximately 60% of patches created
            Approximately 70% of patches created
            Approximately 80% of patches created
            Approximately 90% of patches created
        All patches created

Creating Diagnostics, antennas, and external fields

_

        Created particle diagnostic #0: species electron
            Axis moving_x from 0 to 112 in 896 steps
            Axis px from -1 to 2 in 100 steps
        Diagnostic Fields #0 :
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        Probe diagnostic #0 created
            896 points
            corner 0 : 0, 60, 60
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            896x40 points (total = 35840)
            corner 0 : 0, 30, 60
            corner 1 : 0, 90, 60
            corner 2 : 112, 30, 60
        Done initializing diagnostics
^A

Applying external fields at time t = 0

_

Initializing diagnostics

_

Running diags at time t = 0

-

Species creation summary

-
                    Species 0 (electron) created with 11468800 particles

Cleaning up python runtime environement

-
        Checking for cleanup() function:
        python cleanup function does not exists
        Calling python _keep_python_running() :
            Closing Python

Memory consumption

-
        (Master) Species part = 634 MB
        Global Species part = 0.620 GB
        Max Species part = 634 MB
        (Master) Fields part = 548 MB
        Global Fields part = 0.536 GB
        Max Fields part = 548 MB
        (Master) ParticleDiagnostic0.h5 = 0 MB
        Global ParticleDiagnostic0.h5 = 0.001 GB
        Max ParticleDiagnostic0.h5 = 0 MB
        (Master) Probes0.h5 = 0 MB
        Global Probes0.h5 = 0.000 GB
        Max Probes0.h5 = 0 MB
        (Master) Probes1.h5 = 4 MB
        Global Probes1.h5 = 0.004 GB
        Max Probes1.h5 = 4 MB

Time-Loop started: number of time-steps n_time = 1806

-
    timestep   sim time   cpu time [s]   (diff [s])