

system-2025-05-17-131655-CL-0.5

System parameters

- Packing fraction: 0.5
- Cross-Linker Concentration: 0.5
- Number of particles: 1500
- Temperature: 0.05
- Damp: 0.1
- Max deformation per cycle: 10

Numeric parameters

- Time step: 0.001 [tau]
- Number of time steps in heating process: 500000
- Number of time steps in isothermal process: 8000000

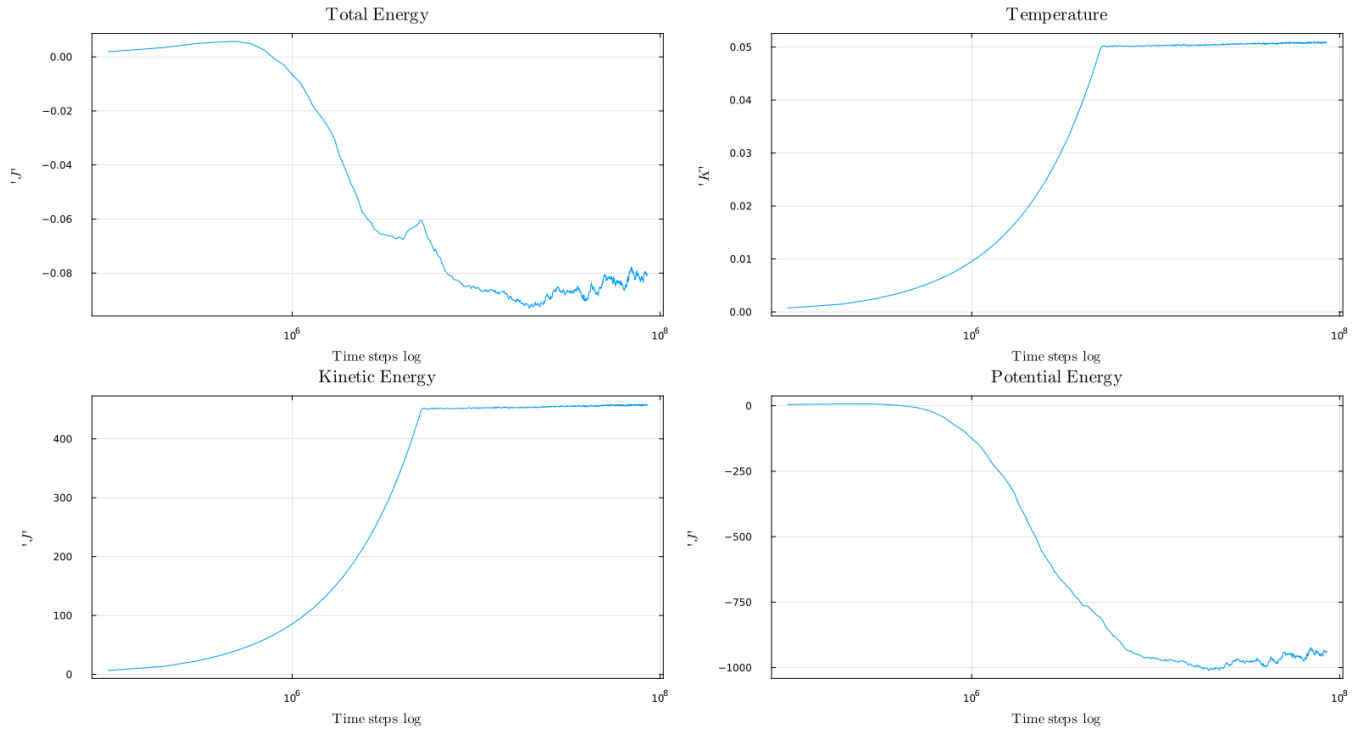
Derived values from parameters

Save parameters

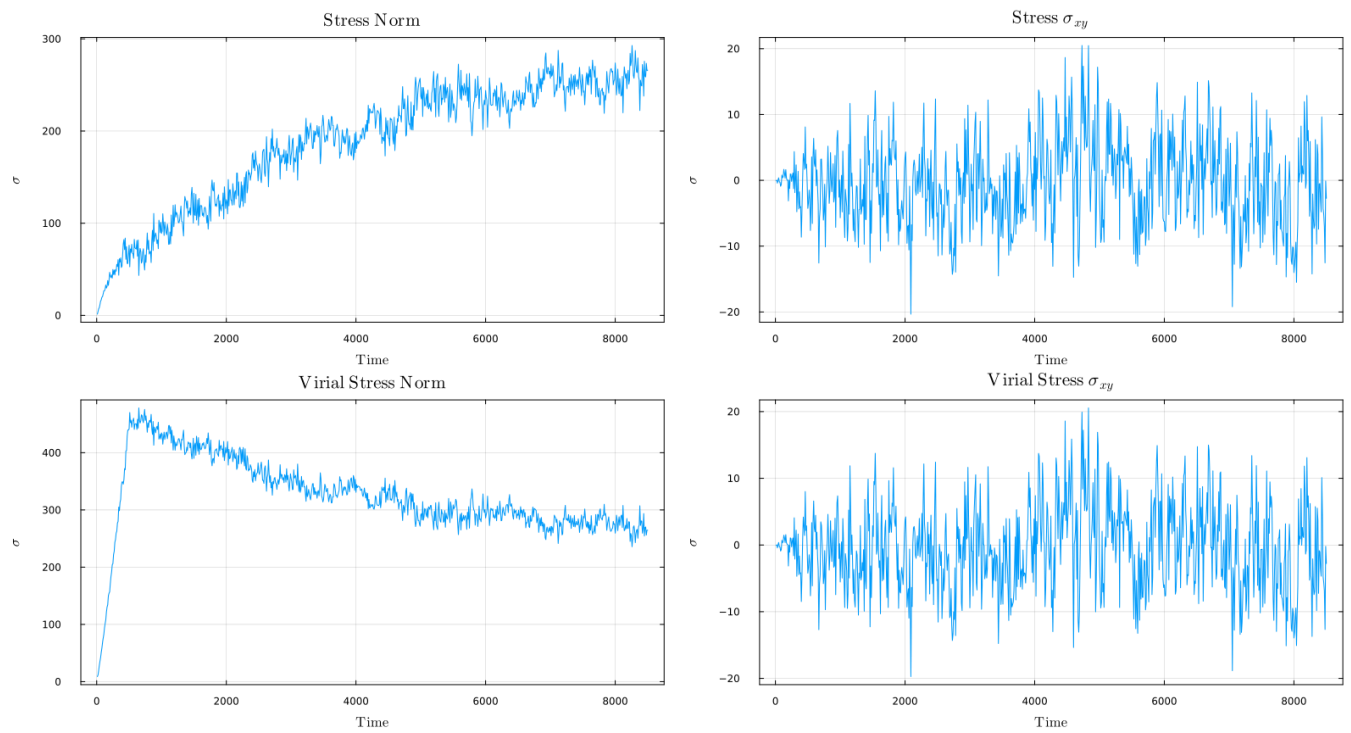
- Save every 1000000 time steps for dumps files
- Save every 10000 time steps for fix files
- Save every 10000 time steps for Stress fix files

Assembly graphs

Assembly



Assembly Stress and Virial Stress



Shear parameters

Shear rate 0.005

Max-strain: 10

N_def: 200000

time-step: 0.001

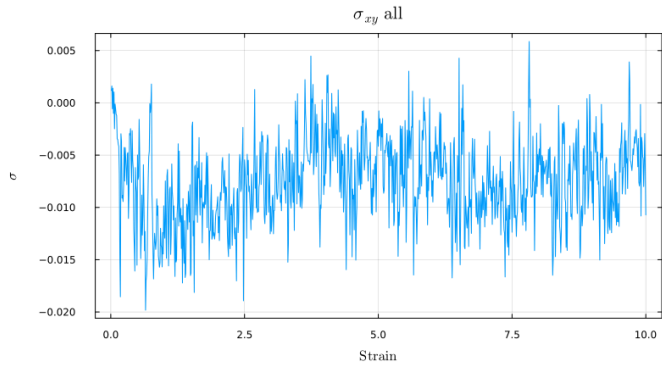
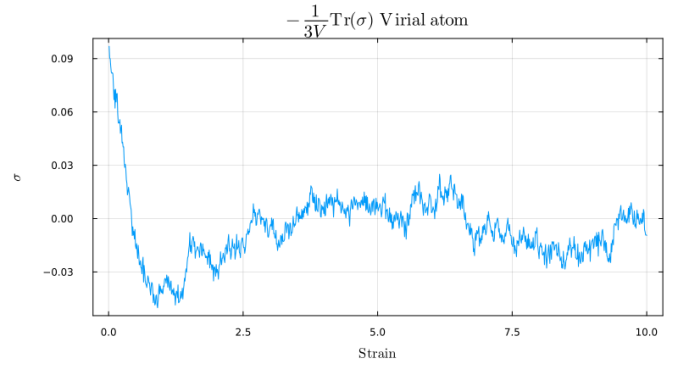
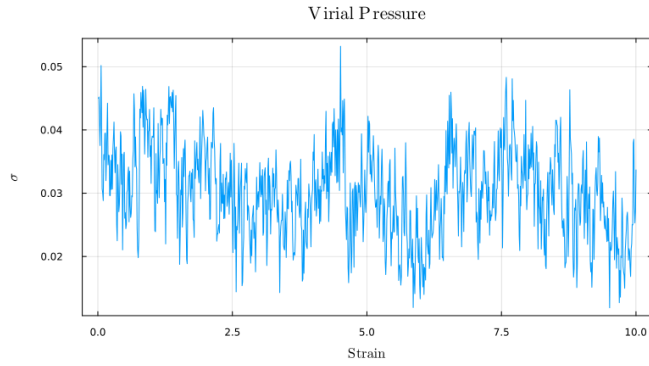
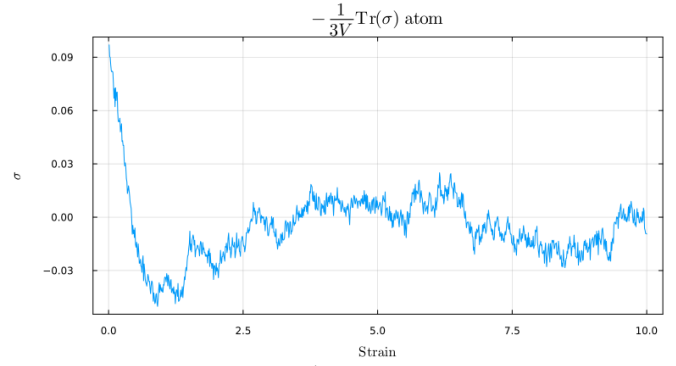
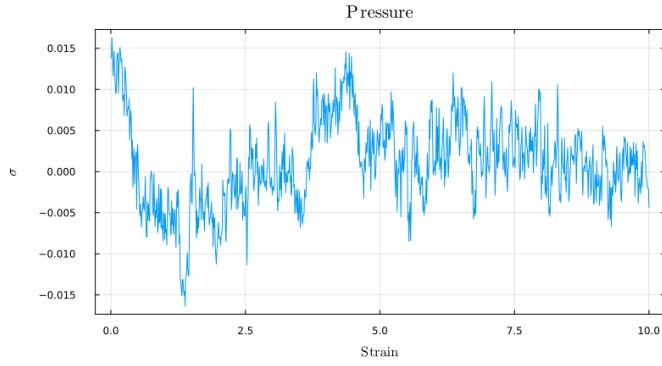
save-dump: 20000

save-fix: 10000

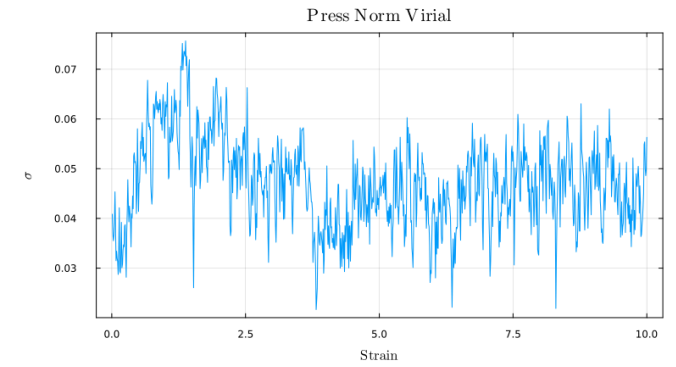
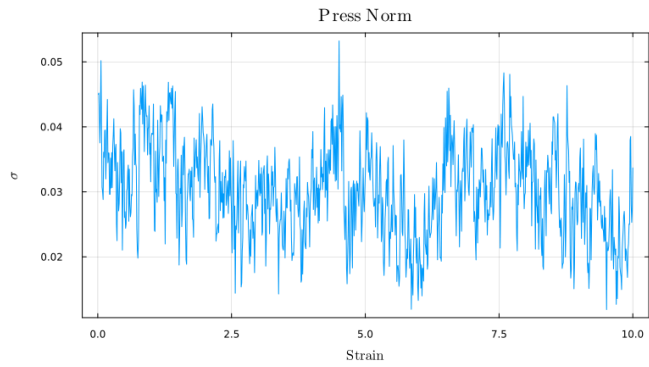
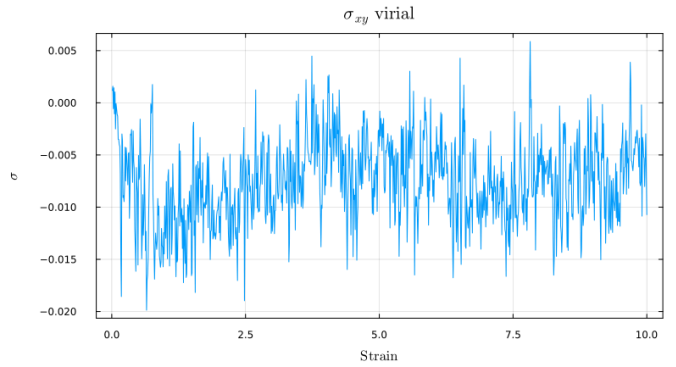
save-stress 2000

Figures

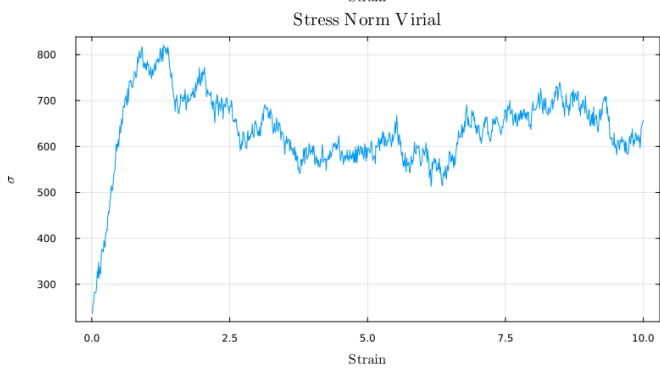
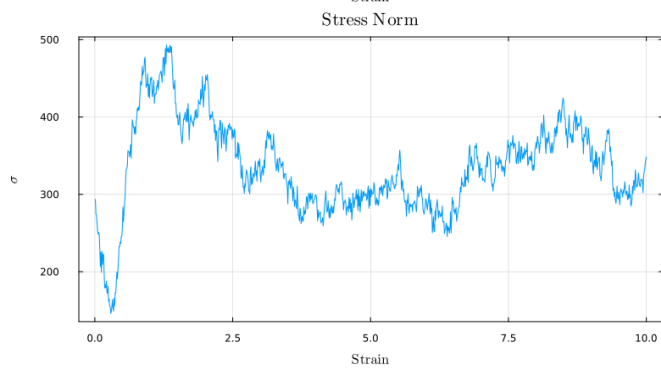
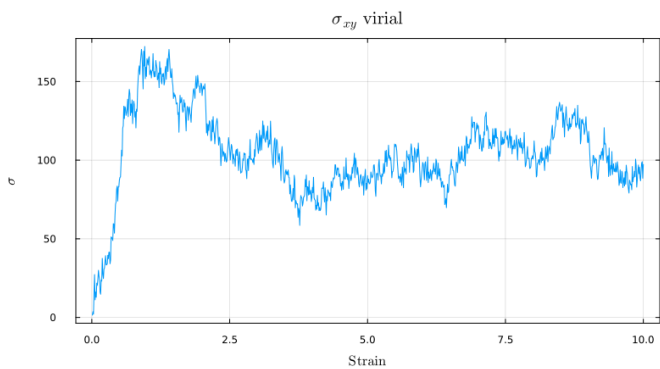
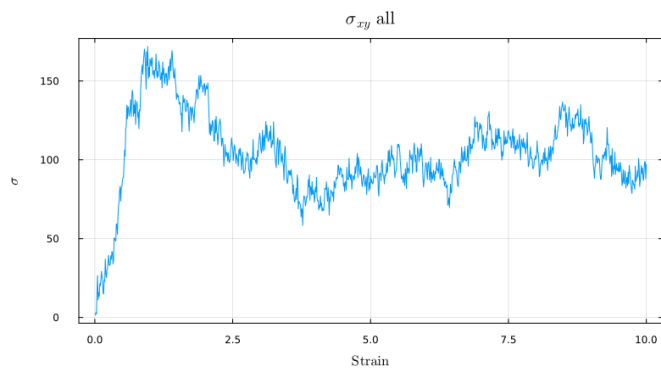
Comparison of compute pressure with compute stress – atom



Pressure



Stress Atom



Shear

