system-2025-05-20-100954-CL-0.5

System parameters

Packing fraction: 0.5

Cross-Linker Concentration: 0.5Number 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

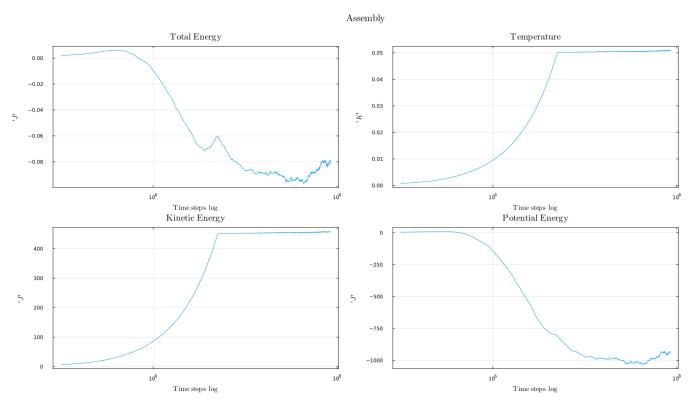
• Number of time steps in isothermal process: 8000000

Derived values from parameters

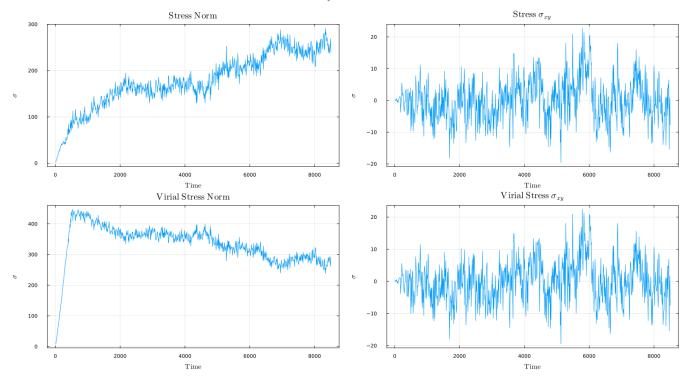
Save parameters

- · 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 Stress and Virial Stress

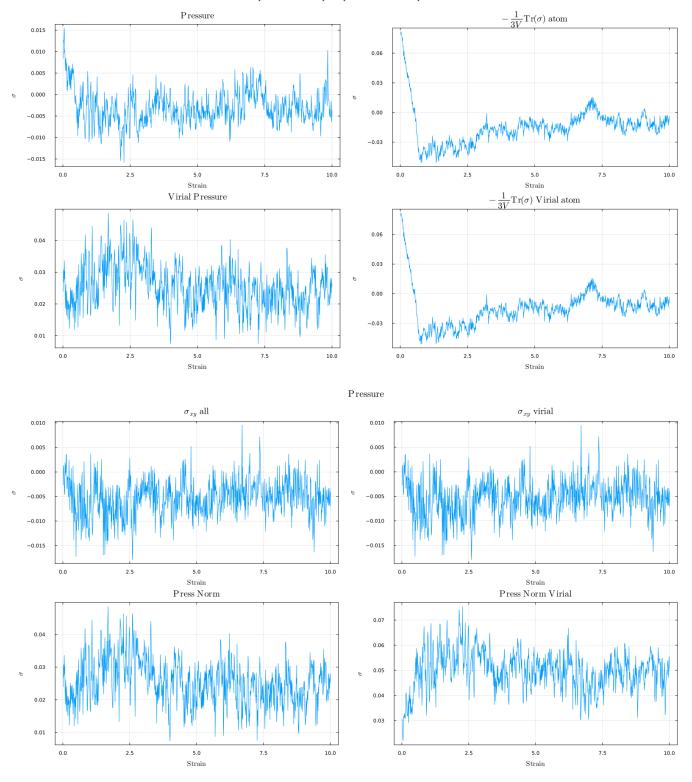


Shear parameters

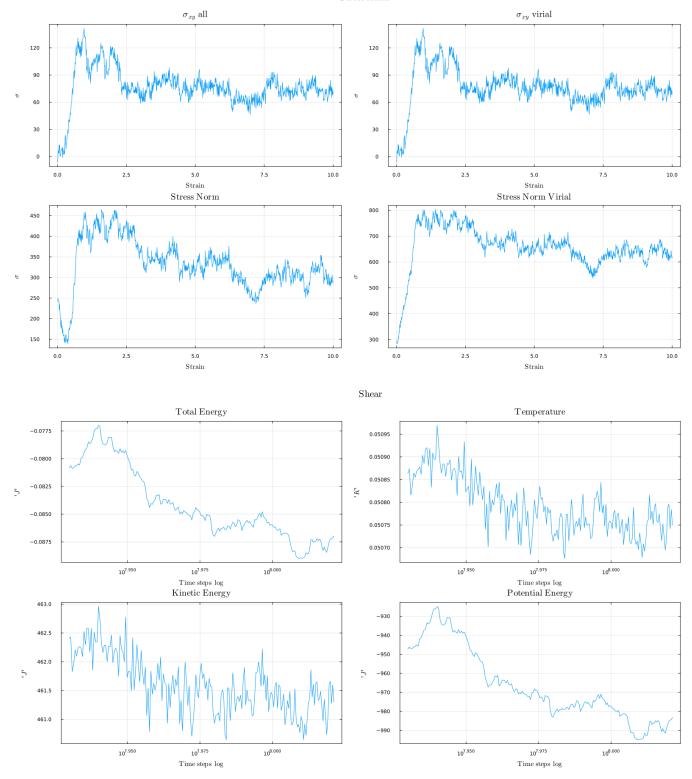
Shear rate 0.005

Max-strain: 10 N_def: 200000 time-step: 0.001 save-dump: 20000 save-fix: 10000 save-stress 2000

Figures







Shear Rate 0.007

Max-strain: 10 N_def: 142857 time-step: 0.001 save-dump: 14285 save-fix: 10000 save-stress 1428

