

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

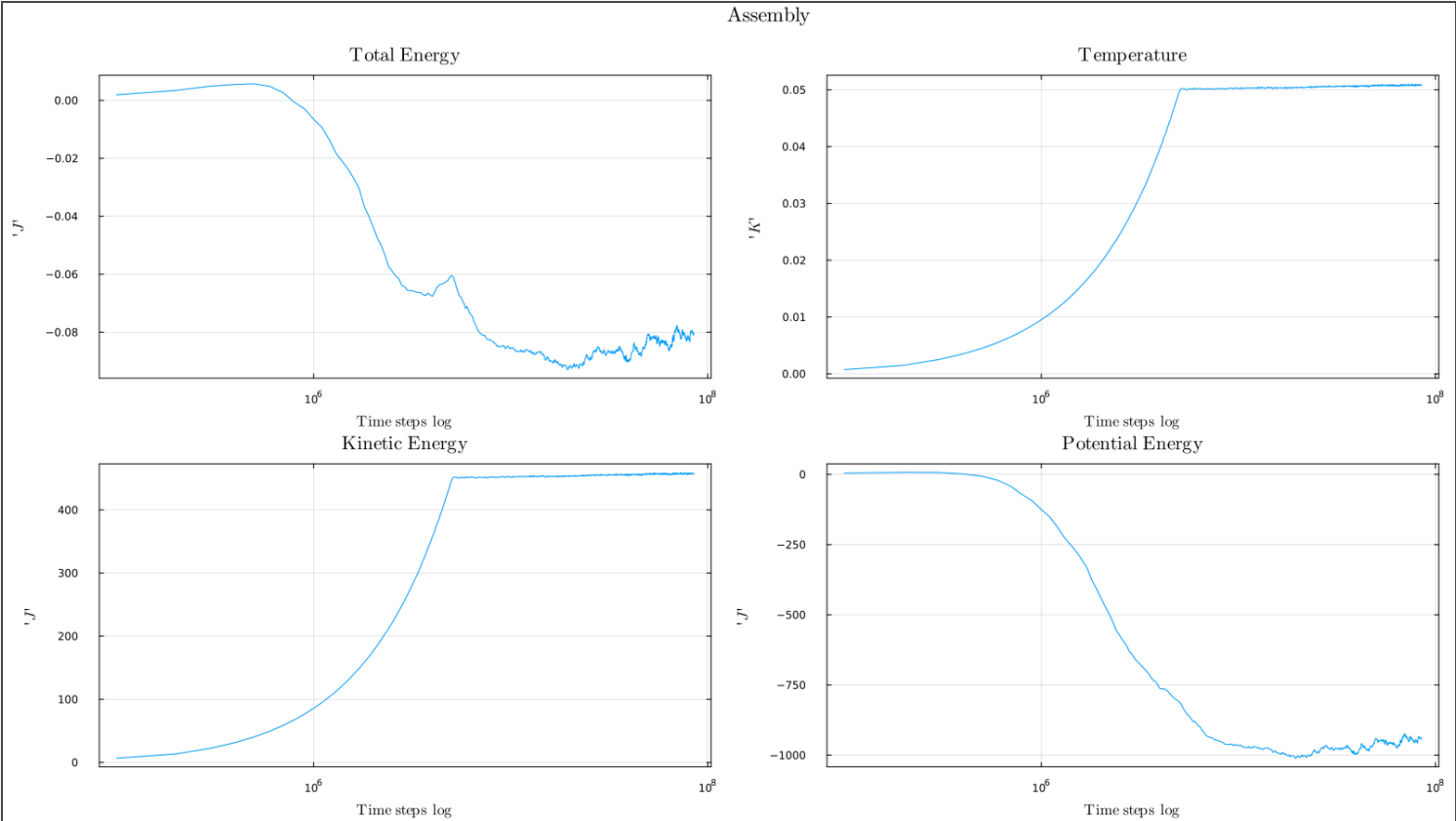
- Time step: 0.001 [tau]
- Number of time steps in heating process: 500000
- Number of time steps in isothermal process: 8000000

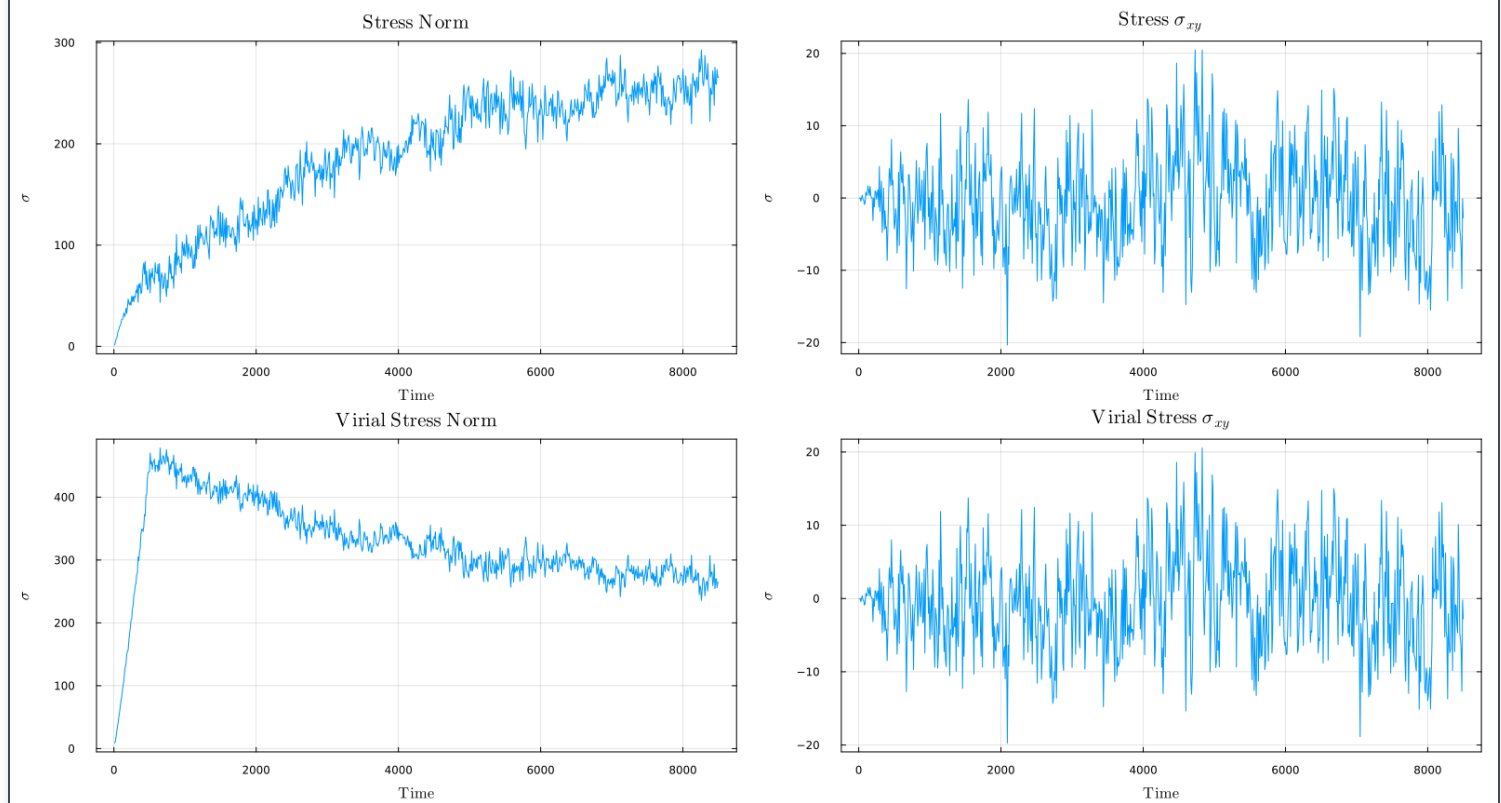
Derived values from parameters

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





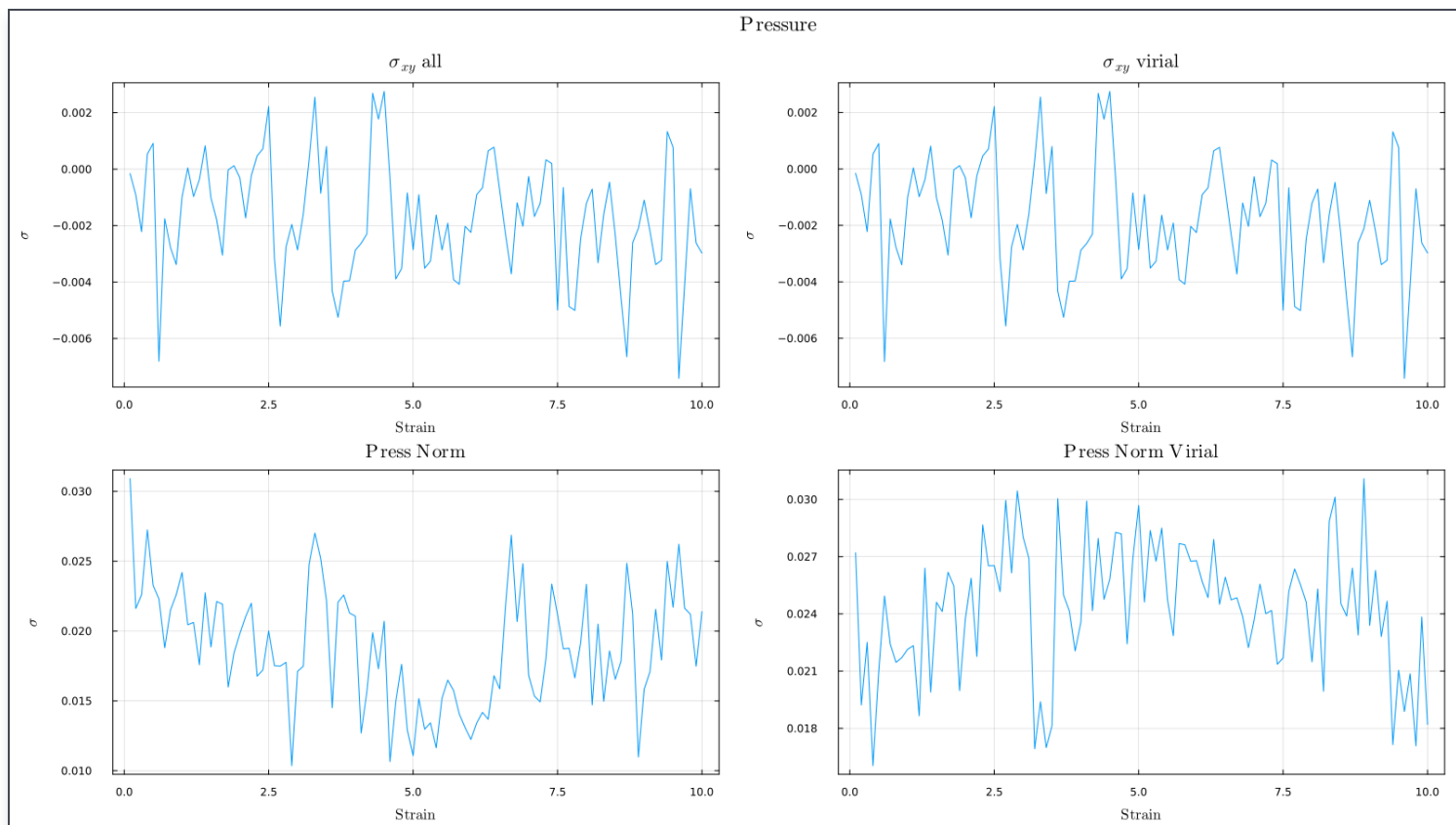
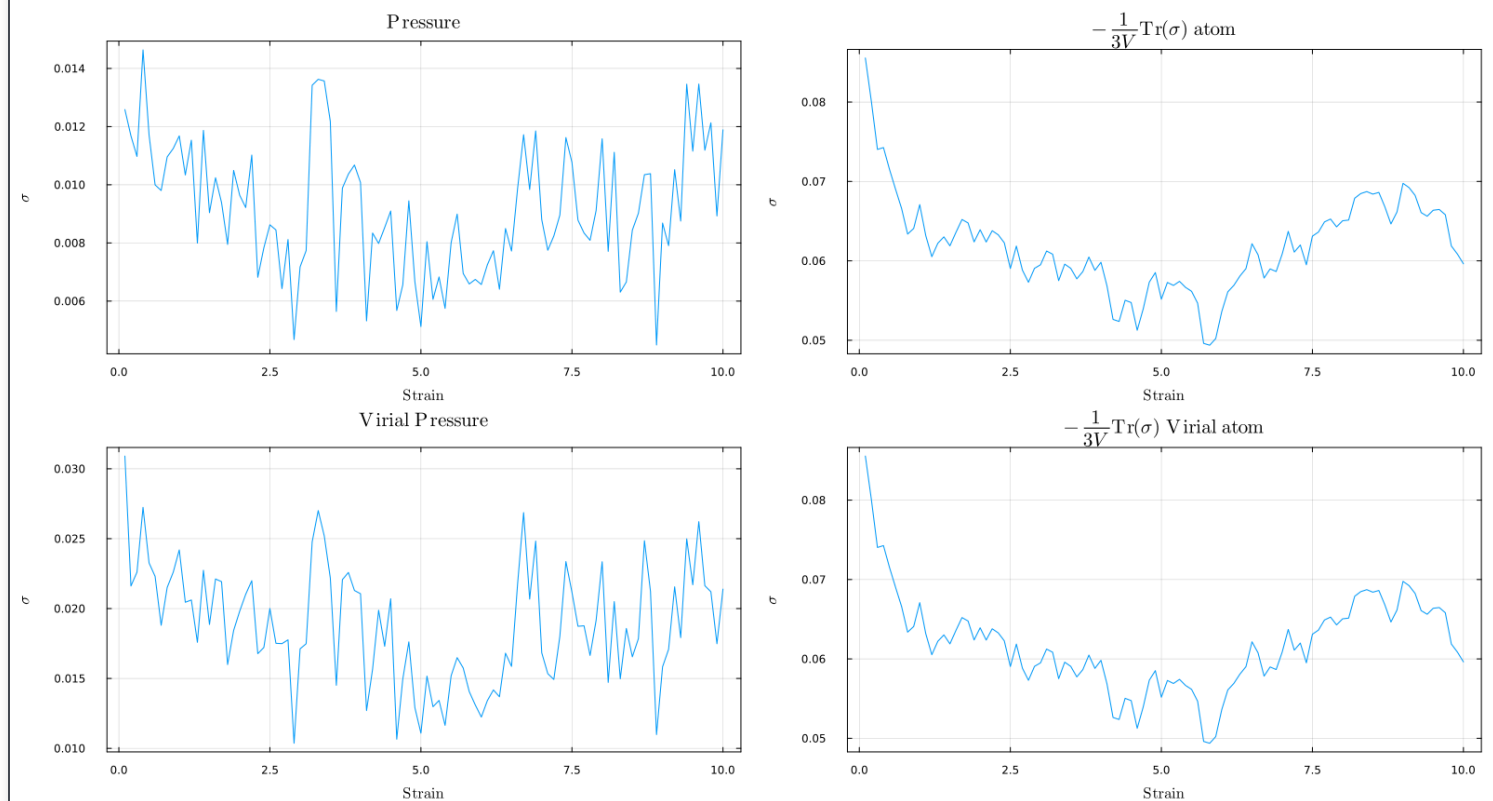
Shear parameters

Shear-rate 0.001

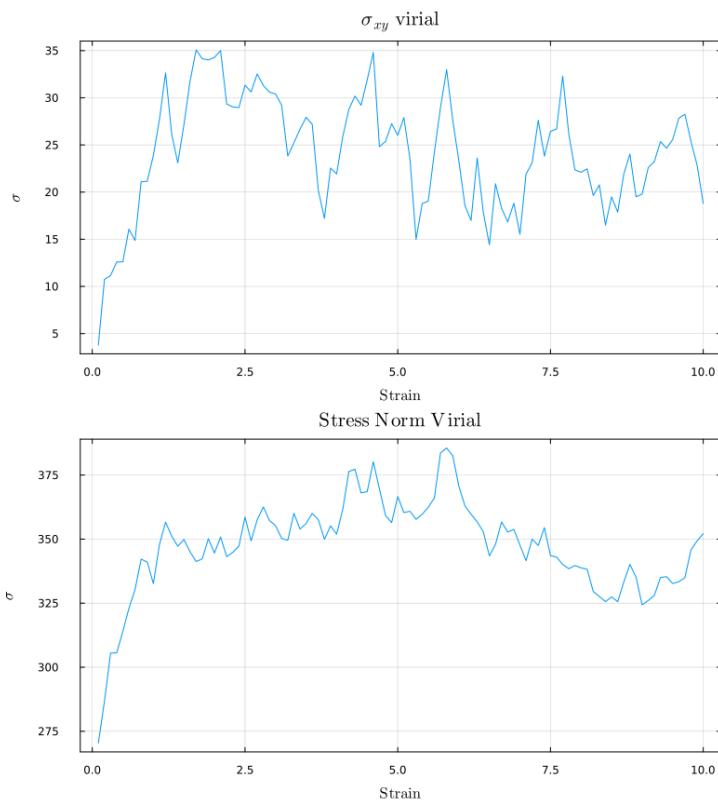
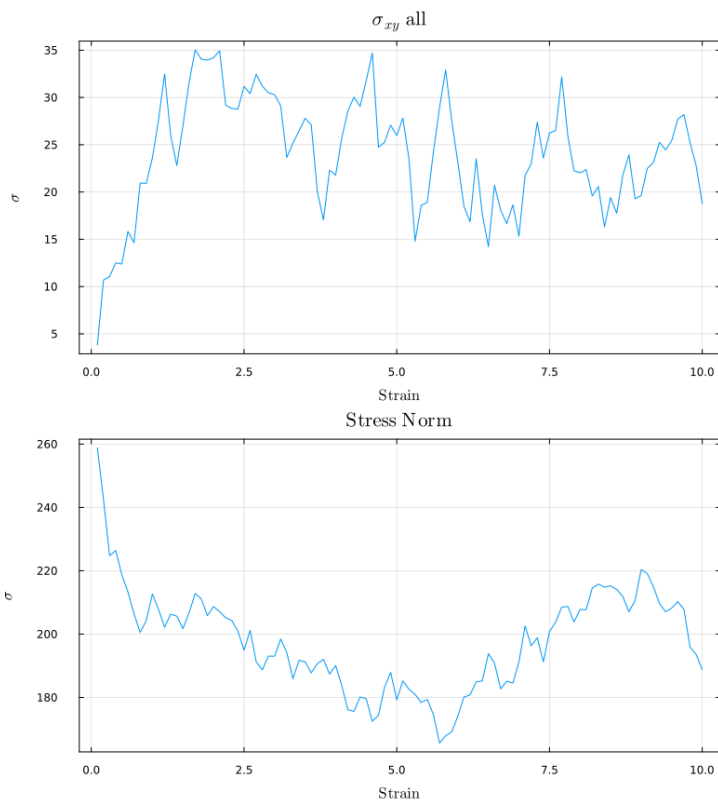
Max-strain 10
N_def 1000000
time-step 0.001
save-dump 1000000000
save-fix 10000
save-stress 100000

Figures

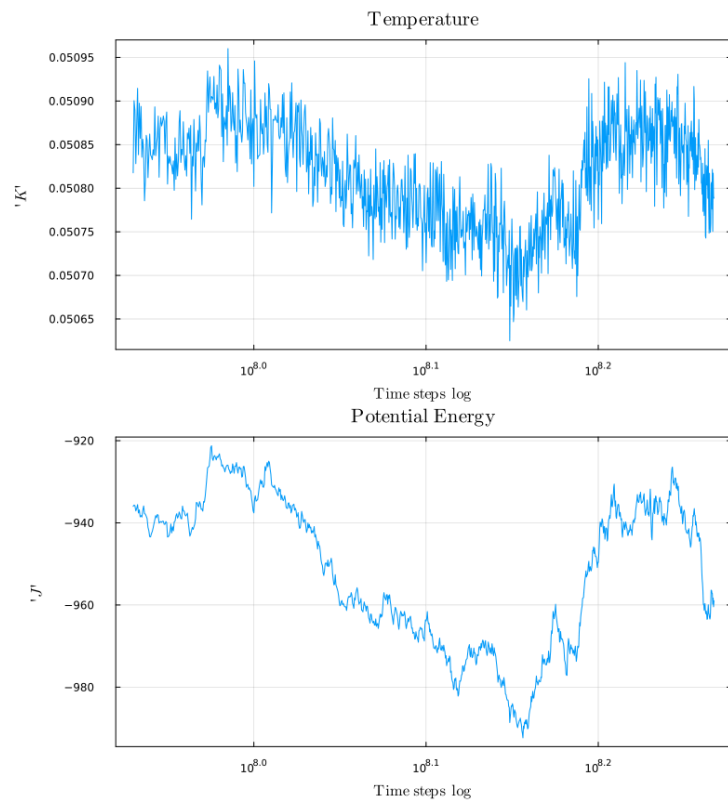
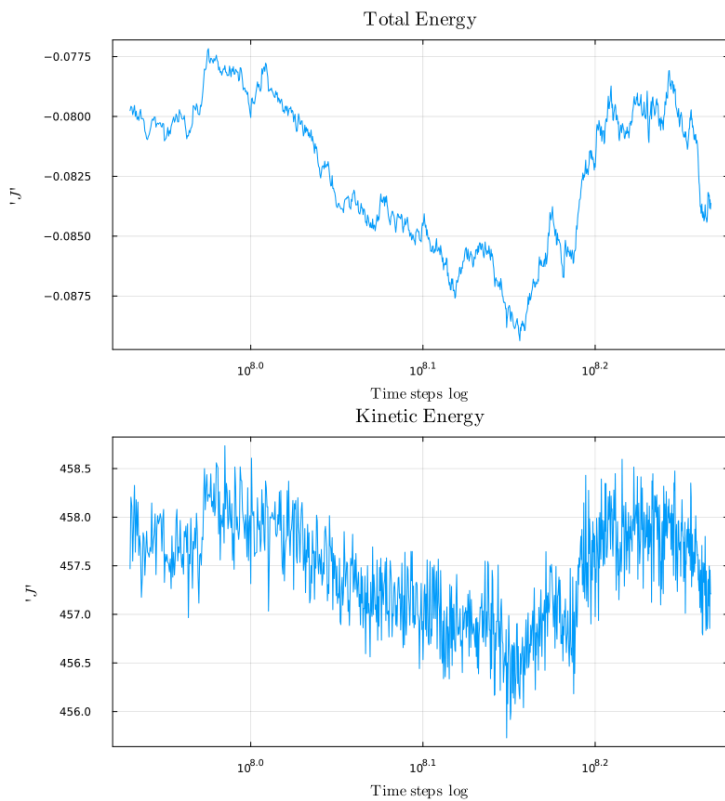
Comparison of compute pressure with compute stress — atom



Stress Atom



Shear

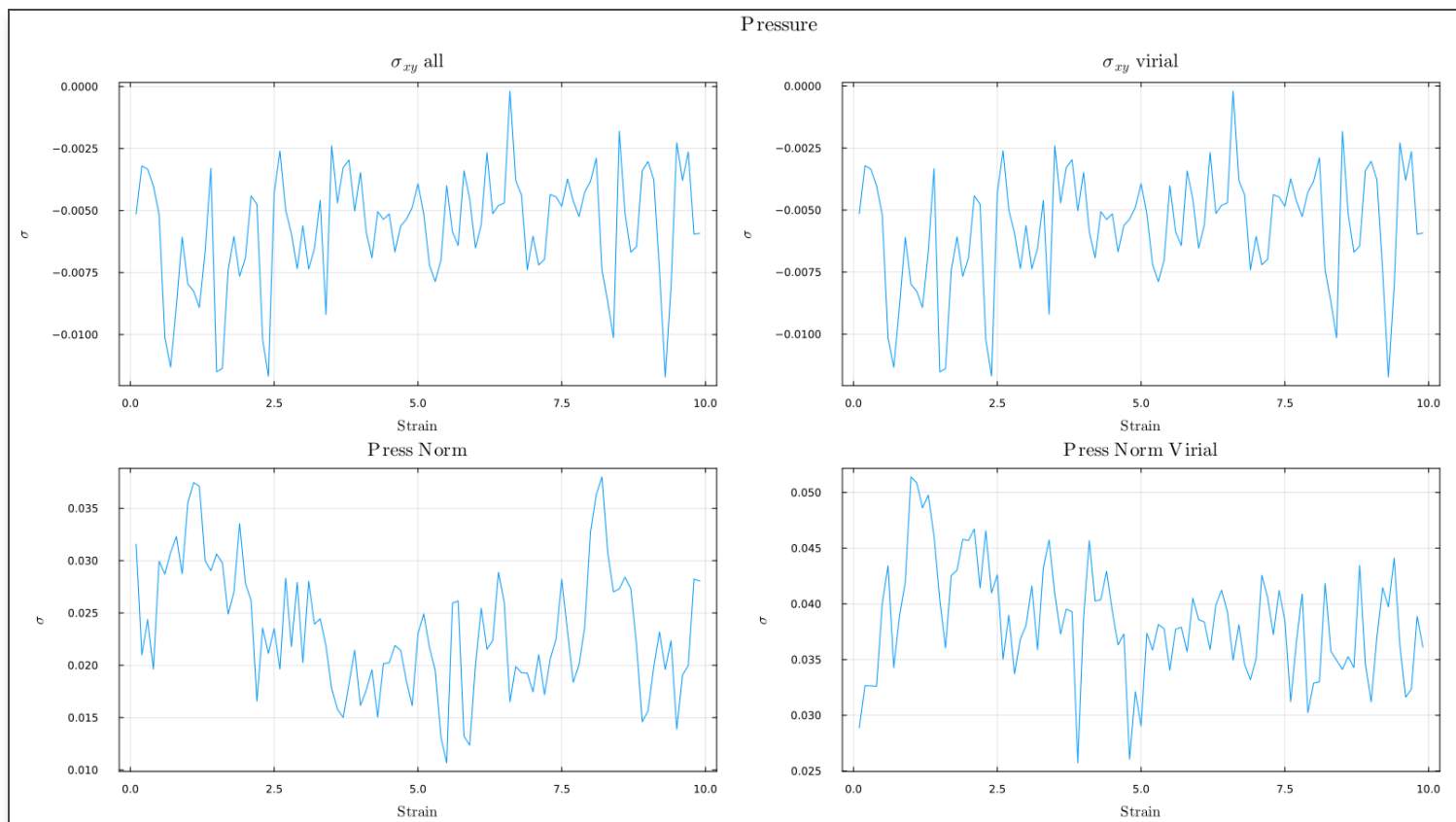
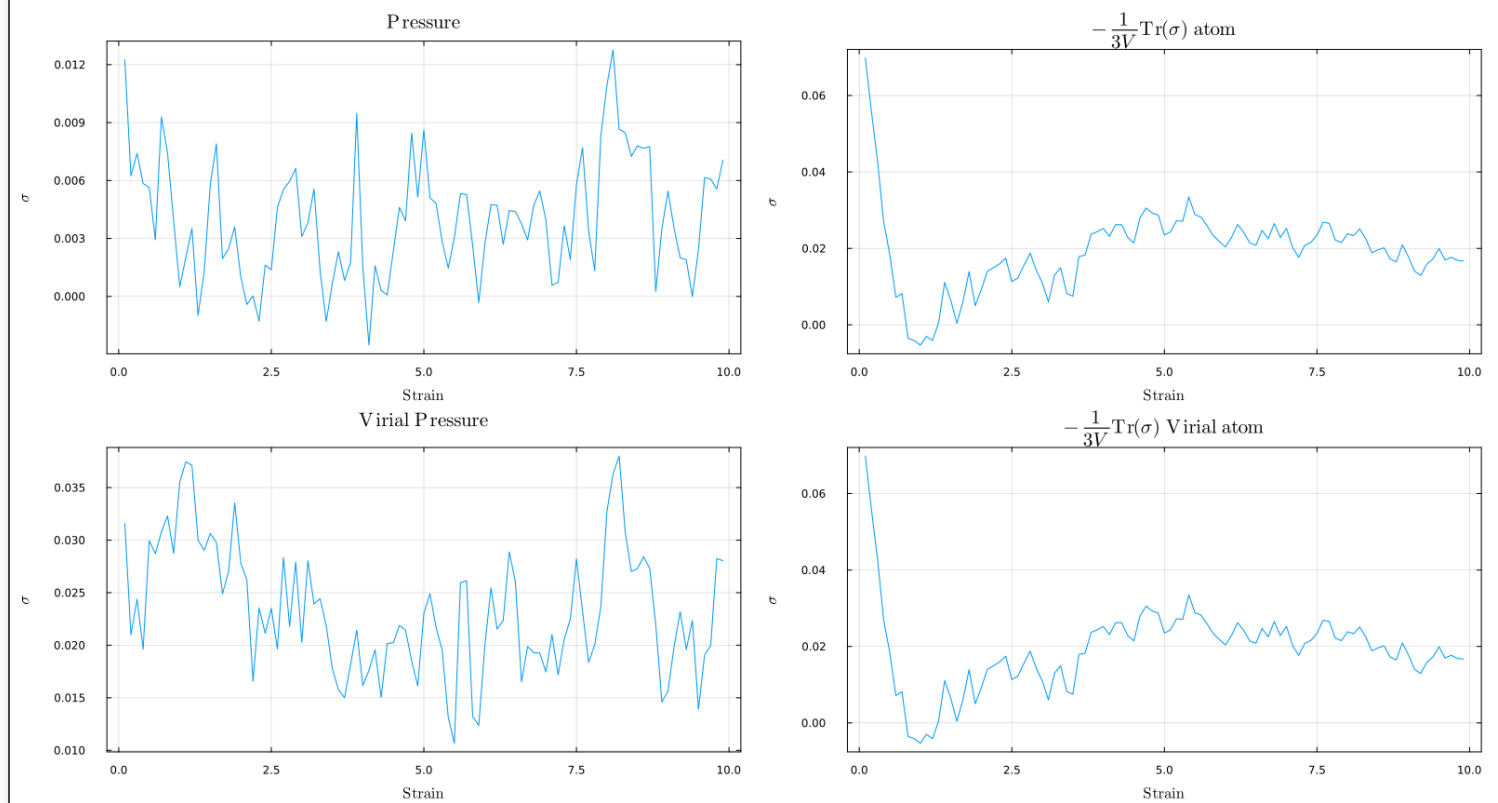


Shear-rate 0.003

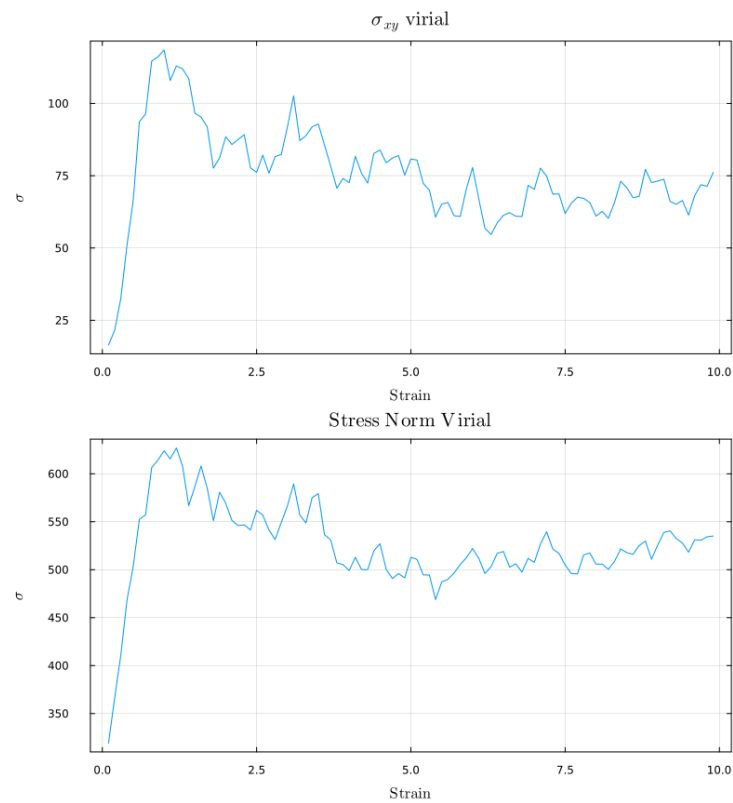
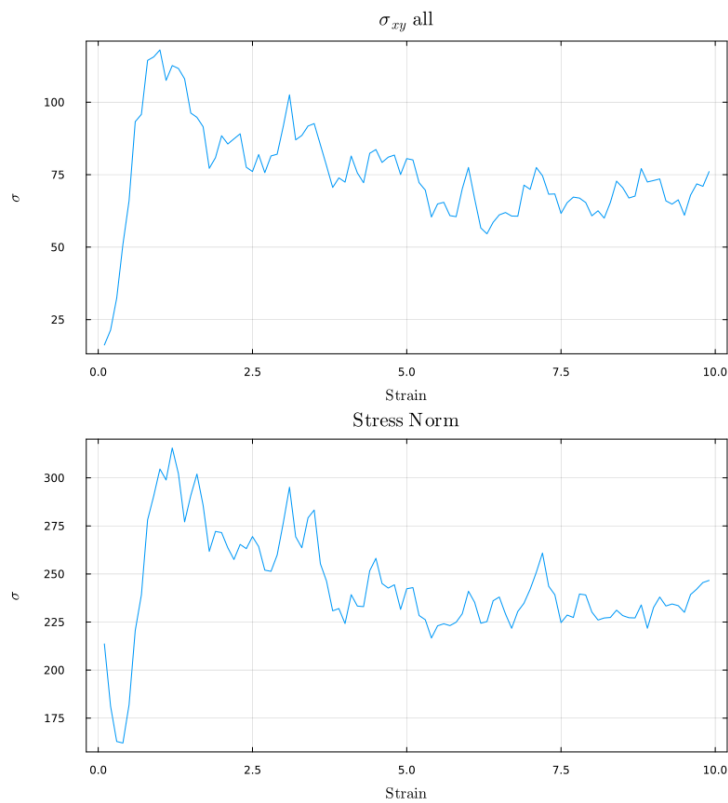
Max-strain 10
 N_def 333333
 time-step 0.001
 save-dump 333333000
 save-fix 10000
 save-stress 33333

Figures

Comparison of compute pressure with compute stress — atom



Stress Atom



Shear

