IMD version 3

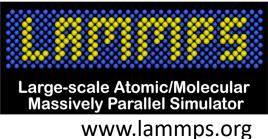
Minimal Demo (with LAMMPS)

- MD simulation of Lennard-Jones liquid (Argon) (runs on remote server)
 - → sends crds, velo, force, box for system every 10 steps
- Jupyter Notebook with MDAnalysis (runs locally)
 - > receives crds, velo, force, box for system
 - → prints info for atom 42

Streaming Molecular Dynamics

```
boundary p p p #periodic boundary condition for all three faces
## Create Box
## Create atoms & define interactions
mass 1 39.948
## Create atom group for argon atoms
group ar type 1
timestep 0.001
velocity all create 300 102939 dist gaussian mom
fix 2 all imd 8888 version 3 &
## Run MD sim
```

Example:





Trajectory File Output

dump traj all xyz 1000 traj.xyz



Streaming Molecular Dynamics



