

```
units micro
#####
boundary p f p
dimension 2
#####
atom_style molecular
#read_data data.xrl
fix prop all property/atom d_dir
read_data data_box_number.xrl fix prop NULL Direction
#####
#velocity all create 1.0 1 loop geom
#####
pair_style lj/cut 1.1224620
pair_modify shift yes
pair_coeff * * 4.12e-6 1.0 1.1224620
bond_style fene
bond_coeff 1 14.832e-4 1.25 4.12e-6 0.5
angle_style Jam
angle_coeff 1 4120.2e-6 180.0 5
#####
#compute 1 all temp
timestep 10.0
thermo 2000
#thermo_style custom step temp
#thermo_modify temp new
#####
fix 1 all enforce2d
#fix 2 all nve
#fix 3 all langevin 300.0 300.0 0.119217 48279425
fix 2 all bd 298.15 0.119217 554985
#fix_modify 3 temp new
#fix wallxhi all wall/lj93 xhi EDGE 4.12e-6 1.0 1.1224620
#fix wallxlo all wall/lj93 xlo EDGE 4.12e-6 1.0 1.1224620
fix wallyhi all wall/lj93 yhi EDGE 4.12e-6 1.0 1.1224620
fix wallylo all wall/lj93 ylo EDGE 4.12e-6 1.0 1.1224620
#####
dump 1 all custom 2000 dump.* x y fx fy
dump_modify 1 sort id
#####

run 10000000
```

#Cell Numbers = 40
#Force Magnitude = 25
#Cell Unit = 5
#Box X Width = 100.000000
#Box Y Width = 10.000000
#Density = 0.095400

200 atoms
160 bonds
120 angles

1 atom types
1 bond types
1 angle types

0.000000 100.000000 xlo xhi
0.000000 10.000000 ylo yhi
-0.1 0.1 zlo zhi

Masses

1 1.0

Atoms

1 1 1 0.500000 5.000000 0.000000
2 1 1 0.900000 5.000000 0.000000
3 1 1 1.300000 5.000000 0.000000
4 1 1 1.700000 5.000000 0.000000
5 1 1 2.100000 5.000000 0.000000
6 1 1 2.950000 5.000000 0.000000
7 1 1 3.350000 5.000000 0.000000
8 1 1 3.750000 5.000000 0.000000
9 1 1 4.150000 5.000000 0.000000
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11 1 1 5.400000 5.000000 0.000000
12 1 1 5.800000 5.000000 0.000000
13 1 1 6.200000 5.000000 0.000000
14 1 1 6.600000 5.000000 0.000000
15 1 1 7.000000 5.000000 0.000000
16 1 1 7.850000 5.000000 0.000000
17 1 1 8.250000 5.000000 0.000000
18 1 1 8.650000 5.000000 0.000000
19 1 1 9.050000 5.000000 0.000000
20 1 1 9.450000 5.000000 0.000000
21 1 1 10.300000 5.000000 0.000000
22 1 1 10.700000 5.000000 0.000000
23 1 1 11.100000 5.000000 0.000000
24 1 1 11.500000 5.000000 0.000000
25 1 1 11.900000 5.000000 0.000000
26 1 1 12.750000 5.000000 0.000000
27 1 1 13.150000 5.000000 0.000000
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29 1 1 13.950000 5.000000 0.000000
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34 1 1 16.400000 5.000000 0.000000
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Direction

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Bonds

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Angles

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