
Amber 11 SANDER

2010

| PMEMD implementation of SANDER, Release 11

| Run on 07/29/2017 at 10:04:58

[-O]verwriting output

File Assignments:

| MDIN: prod.in
| MDOUT: prod16.out
| INPCRD: Q4QQ4-plus18-15.rst
| PARM: Q4QQ4-plus18.parm7
| RESTRT: Q4QQ4-plus18-16.rst
| REFC: Q4QQ4-plus18-15.rst
| MDVEL: mdvel
| MDEN: mden
| MDCRD: Q4QQ4-plus18-16.crd
| MDINFO: mdinfo
| LOGFILE: logfile

Here is the input file:

Constant pressure constant temperature production run
&cntrl

imin=0, irect=1, ntx=5,
nstlim=1500000, dt=0.002,
jfastw=4,
ntc=2, ntf=2, ig=-1,
ntb=2, ntp=1, taup=2.0,
ntpr=1000, ntwx=1000,
ntt=1, nrespa=1,
temp0=310.0, iwrap=1,
/

Note: ig = -1. Setting random seed based on wallclock time in microseconds
and disabling the synchronization of random numbers between tasks
to improve performance.

| Conditional Compilation Defines Used:

| DIRFRC_COMTRANS
| DIRFRC_EFS
| DIRFRC_NOVEC

| MPI
| PUBFFT
| FFTLOADBAL_2PROC
| BINTRAJ

| Largest sphere to fit in unit cell has radius = 40.299

| New format PARM file being parsed.
| Version = 1.000 Date = 06/19/17 Time = 10:07:50

| Note: 1-4 EEL scale factors are being read from the topology file.

| Note: 1-4 VDW scale factors are being read from the topology file.
| Duplicated 0 dihedrals

| Duplicated 0 dihedrals

1. RESOURCE USE:

getting new box info from bottom of inpcrd

NATOM = 67361 NTYPES = 12 NBONH = 44350 MBONA = 1188
NTHETH = 24170 MTHETA = 1578 NPHIH = 5601 MPHIA = 3984
NHARM = 0 NPARM = 0 NNB = 99259 NRES = 21967
NBONA = 1188 NTHETA = 1578 NPHIA = 3984 NUMBND = 13
NUMANG = 30 NPTRA = 25 NATYP = 14 NPHB = 1
IFBOX = 1 NMXRS = 24 IFCAP = 0 NEXTRA = 0
NCOPY = 0

| Coordinate Index Table dimensions: 18 16 18
| Direct force subcell size = 5.0176 5.0374 5.1955

BOX TYPE: RECTILINEAR

2. CONTROL DATA FOR THE RUN

default_name

General flags:

imin = 0, nmropt = 0

Nature and format of input:

ntx = 5, irect = 1, ntrx = 1

Nature and format of output:

ntxo = 1, ntp = 1000, ntr = 1, ntwr = 1600
iwrap = 1, ntwx = 1000, ntwv = 0, ntwe = 0
ioutfm = 0, ntwprt = 0, idecomp = 0, rbornstat = 0

Potential function:

ntf = 2, ntb = 2, igb = 0, nsnb = 25
ipol = 0, gbsa = 0, iesp = 0
dielc = 1.00000, cut = 8.00000, intdiel = 1.00000

Frozen or restrained atoms:

ibelly = 0, ntr = 0

Molecular dynamics:

nstlim = 1500000, nscm = 1000, nrespa = 1
t = 0.00000, dt = 0.00200, vlimit = 20.00000

Berendsen (weak-coupling) temperature regulation:

temp0 = 310.00000, tempi = 0.00000, tautp = 1.00000

Pressure regulation:

ntp = 1
pres0 = 1.00000, comp = 44.60000, taup = 2.00000

SHAKE:

ntc = 2, jfastw = 4
tol = 0.00001

| Intermolecular bonds treatment:

| no_intermolecular_bonds = 1

| Energy averages sample interval:

| ene_avg_sampling = 1000

Ewald parameters:

verbose = 0, ew_type = 0, nbflag = 1, use_pme = 1
vdwmeth = 1, eedmeth = 1, netfrc = 1
Box X = 90.318 Box Y = 80.598 Box Z = 93.519
Alpha = 90.000 Beta = 90.000 Gamma = 90.000
NFFT1 = 96 NFFT2 = 81 NFFT3 = 96
Cutoff = 8.000 Tol = 0.100E-04
Ewald Coefficient = 0.34864
Interpolation order = 4

| PME MD ewald parallel performance parameters:

| block_fft = 0
| fft_blk_y_divisor = 4
| excl_recip = 0
| excl_master = 0
| atm_redist_freq = 320

3. ATOMIC COORDINATES AND VELOCITIES

default_name

begin time read from input coords = 75693.600 ps

Number of triangulated 3-point waters found: 0

Sum of charges from parm topology file = -0.00000036

Forcing neutrality...

| Dynamic Memory, Types Used:

| Reals 5564693

| Integers 2319777

| Nonbonded Pairs Initial Allocation: 959894

| Running AMBER/MPI version on 32 nodes
