```
;# 6,8,10,12,14
set nCARBONS
set nQUARTERS
                 ;# 0,1,2,3,4
set TIME
             ; # total time at end of this simulation (directory) (ie: 06)
                  tsb35-c${nCARBONS}
set MOLECULE
                  ${MOLECULE} 0${nQUARTERS}-quarter
set LATTICE
set temperature
                 ; # in Kelvin
set minSteps
                 ; # number of steps in minimization
set runSteps
                 ; # number of steps in this simulation
timestep
             1.0
firsttimestep
                  0
stepspercycle
cutoff
              10.0
switching
             on
switchdist
              8.0
pairlistdist
                12.0
margin
              1.0
coordinates
                  ../../${LATTICE} simPDB.pdb
structure
              ../../${LATTICE} simPSF.psf
parameters
              ../../CHARMM-parameters/${MOLECULE} charmm.params
paraTypeCharmm
                  on
if {1} {
if {$nQUARTERS == 0} {
 cellBasisVector1 152.490 8.520
                                  0.000
 cellBasisVector2 68.866 136.320
                                   0.000
 cellBasisVector3 0.000 0.000 100.000
 cellOrigin
#} elseif {$nQUARTERS == 1} {
# cellBasisVector1 156.179 10.650
                                   0.000
# cellBasisVector2 68.866 140.580
                                   0.000
# cellBasisVector3 0.000 0.000 100.000
# cellOrigin
} elseif {$nQUARTERS == 2} {
 cellBasisVector1 159.868 12.780
                                    0.000
 cellBasisVector2 68.866 144.840
                                   0.000
 cellBasisVector3 0.000 0.000 100.000
 cellOrigin
#} elseif {$nQUARTERS == 3} {
# cellBasisVector1 163.558 14.910
                                   0.000
# cellBasisVector2 68.866 149.100
                                   0.000
# cellBasisVector3 0.000 0.000 100.000
# cellOrigin
} elseif {$nQUARTERS == 4} {
 cellBasisVector1 167.247 17.040
                                   0.000
 cellBasisVector2 68.866 153.360
                                   0.000
```

```
cellBasisVector3 0.000
                               0.000
                                        100.000
  cellOrigin
                      79.912 57.515 0.000
} else {
  puts "Cell basis vectors not set."
wrapAll
                 on
wrapNearest
                 on
exclude
                 scaled1-4
1-4scaling
                 0.4
temperature
                 $temperature
rescaleFreq
                 10
rescaleTemp
                      $temperature
CoMmotion
                 no
rigidBonds
                 all
fixedAtoms
                 on
                      ../../${LATTICE} fixedPDB.pdb
fixedAtomsFile
fixedAtomsCol
outputname
                 ${LATTICE}_${temperature}K_${TIME}ns_OUTPUT
binaryoutput
outputEnergies
                      1000
                      \{LATTICE\}_{\{temperature\}K_{\{temperature\}K_{\{temperature\}}K_{\{temperature\}}\}\}
restartname
restartfreq
                 5000
DCDfile
                  ${LATTICE} ${temperature}K ${TIME}ns DCD.dcd
DCDfreq
                 1000
minimize
                  $minSteps
             $runSteps
run
```