```
@echo off

rem ================================================
Rem * Pipeline1: ply -> sog -> cc -> ccsigskl     *
rem ================================================

rem ply->sog
echo "polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply"
polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply
echo "polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog"
polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog
rem sog->cc
echo "sogOctCC2cc.exe ..\Data\1SogOrOctcc\elk7.sog ..\Data\2cc\elk7.cc"
sogOctCC2cc.exe ..\Data\1SogOrOctcc\elk7.sog ..\Data\2cc\elk7.cc
rem cc->ccsigskl
echo "CC2CCSIGSKL ..\Data\2cc\elk7.cc 4.5 0.5 4.5 0.5 30 9 ..\Data\3ccsigskl\elk7s.ccsigskl"
CC2CCSIGSKL ..\Data\2cc\elk7.cc 4.5 0.5 4.5 0.5 30 9 ..\Data\3ccsigskl\elk7s.ccsigskl
echo "CC2CCSIGSKL ..\Data\2cc\elk7.cc 100 1 4.5 0.5 30 9 ..\Data\3ccsigskl\elk7c.ccsigskl"
CC2CCSIGSKL ..\Data\2cc\elk7.cc 100 1 4.5 0.5 30 9 ..\Data\3ccsigskl\elk7c.ccsigskl

rem ====================================================
rem *       Pipeline2:  ply -> sog -> .cc thinning result     *
rem ====================================================
rem ply->sog ply->mendply
echo "polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply"
polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply
echo "polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog"
polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog
rem sog->cc octreeversion to surface
echo "sklAptOctACCThin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_surf.cc >>
..\Data\3ccOctResult\tim\elk7_surf.txt"
sklAptOctACCThin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_surf.cc >>
..\Data\3ccOctResult\tim\elk7_surf.txt
echo "memtrace sklAptOctACCThin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_surf.cc
>>..\Data\3ccOctResult\mem\elk7_surf.txt"
memtrace sklAptOctACCThin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_surf.cc >>
..\Data\3ccOctResult\mem\elk7_surf.txt
rem sog->cc octreeversion to curve
echo "sklAptOctACCThinCurv ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_curv.cc >>
..\Data\3ccOctResult\tim\elk7_curv.txt"
sklAptOctACCThinCurv ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_curv.cc >>
..\Data\3ccOctResult\tim\elk7_curv.txt
echo "memtrace sklAptOctACCThinCurv ..\Data\1SogOrOctcc\elk7.sog
..\Data\3ccOctResult\elk7_curv.cc >>..\Data\3ccOctResult\mem\elk7_curv.txt"
memtrace sklAptOctACCThinCurv ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_curv.cc >>
..\Data\3ccOctResult\mem\elk7_curv.txt
rem sog->cc octreeversion to minimum
echo "sklAptOctACCThinMin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_min.cc >>
..\Data\3ccOctResult\tim\elk7_min.txt"
sklAptOctACCThinMin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_min.cc >>
..\Data\3ccOctResult\tim\elk7_min.txt
echo "memtrace sklAptOctACCThinMin ..\Data\1SogOrOctcc\elk7.sog
..\Data\3ccOctResult\elk7_min.cc >>..\Data\3ccOctResult\mem\elk7_min.txt"
memtrace sklAptOctACCThinMin ..\Data\1SogOrOctcc\elk7.sog ..\Data\3ccOctResult\elk7_min.cc >>
```

```
..\Data\3ccOctResult\mem\elk7_min.txt

rem ================================================
rem *       Pipeline3 ply -> sog -> morph(.off)          *
rem ================================================
rem ply->sog
echo "polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply"
polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply
echo "polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog"
polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog
rem sog->_skeleton.mrc.off
echo "copy ..\Data\1SogOrOctcc\elk7.sog ..\Data\3offPalagyiThinningResult\elk7_surf.sog"
copy ..\Data\1SogOrOctcc\elk7.sog ..\Data\3offPalagyiThinningResult\elk7_surf.sog
echo "MorphGsurf 4 ..\Data\3offPalagyiThinningResult\elk7_surf.sog NULL 1 -0.5 2 2
..\Data\3offPalagyiThinningResult\elk7_surf.pdb"
MorphGsurf 4 ..\Data\3offPalagyiThinningResult\elk7_surf.sog NULL 1 -0.5 2 2
..\Data\3offPalagyiThinningResult\elk7_surf.pdb
erase "..\Data\3offPalagyiThinningResult\*_test.mrc.off"
erase "..\Data\3offPalagyiThinningResult\*.thk"
erase "..\Data\3offPalagyiThinningResult\*helix*"
erase "..\Data\3offPalagyiThinningResult\*sheet*"
erase "..\Data\3offPalagyiThinningResult\*mrc2.off"
erase "..\Data\3offPalagyiThinningResult\*.pqr"
erase "..\Data\3offPalagyiThinningResult\*.sog"
erase "..\Data\3offPalagyiThinningResult\*.mrc"
erase "..\Data\3offPalagyiThinningResult\elk7_surf.off"
rem sog->_skeleton.mrc.off
echo "copy ..\Data\1SogOrOctcc\elk7.sog ..\Data\3offPalagyiThinningResult\elk7_curv.sog"
copy ..\Data\1SogOrOctcc\elk7.sog ..\Data\3offPalagyiThinningResult\elk7_curv.sog
echo "MorphGcurv 4 ..\Data\3offPalagyiThinningResult\elk7_curv.sog NULL 1 -0.5 2 2
..\Data\3offPalagyiThinningResult\elk7_curv.pdb"
MorphGcurv 4 ..\Data\3offPalagyiThinningResult\elk7_curv.sog NULL 1 -0.5 2 2
..\Data\3offPalagyiThinningResult\elk7_curv.pdb
erase "..\Data\3offPalagyiThinningResult\*_test.mrc.off"
erase "..\Data\3offPalagyiThinningResult\*.thk"
erase "..\Data\3offPalagyiThinningResult\*helix*"
erase "..\Data\3offPalagyiThinningResult\*sheet*"
erase "..\Data\3offPalagyiThinningResult\*mrc2.off"
erase "..\Data\3offPalagyiThinningResult\*.pqr"
erase "..\Data\3offPalagyiThinningResult\*.sog"
erase "..\Data\3offPalagyiThinningResult\*.mrc"
erase "..\Data\3offPalagyiThinningResult\elk7_curv.off"

rem ================================================
rem Pipeline 4:ply -> sog ->addnoise(.mrc) ->.cc-> morph(.ccsigskl)
rem ================================================
rem ply->sog
echo "polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply"
polymender-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1PlyMend\elk7.ply
echo "polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog"
polymender-dc-clean ..\Data\0Ply\elk.ply 7 0.9 ..\Data\1SogOrOctcc\elk7.sog
rem sog -> noisy mrc->cc
echo "sog2NoisyMRC ..\Data\1SogOrOctcc\elk7.sog ..\Data\NosiyGenerationProcess\elk7_noisy 3 0.5
0.7 0.5 "
```

```
sog2NoisyMRC ..\Data\1SogOrOctcc\elk7.sog ..\Data\NosiyGenerationProcess\elk7_noisy 3 0.5 0.7
0.5
echo "mrc2cc.exe ..\Data\NosiyGenerationProcess\elk7_noisy.mrc
..\Data\NosiyGenerationProcess\elk7_noisy.cc"
mrc2cc.exe ..\Data\NosiyGenerationProcess\elk7_noisy.mrc
..\Data\NosiyGenerationProcess\elk7_noisy.cc
rem mrc->ply
echo "unicontour ..\Data\NosiyGenerationProcess\elk7_noisy.mrc 0.5
..\Data\NosiyGenerationProcess\elk7_noise.ply"
unicontour ..\Data\NosiyGenerationProcess\elk7_noisy.mrc 0.5
..\Data\NosiyGenerationProcess\elk7_noise.ply
rem noisy cc->surf ccsigskl
echo "CC2CCSIGSKL ..\Data\NosiyGenerationProcess\elk7_noisy.cc 4.5 0.5 4.5 0.5 30 9
..\Data\NosiyGenerationProcess\elk7surf_noise.ccsigskl"
CC2CCSIGSKL ..\Data\NosiyGenerationProcess\elk7_noisy.cc 4.5 0.5 4.5 0.5 30 9
..\Data\NosiyGenerationProcess\elk7surf_noise.ccsigskl
rem noisy cc->curv ccsigskl
echo "CC2CCSIGSKL ..\Data\NosiyGenerationProcess\elk7_noisy.cc 100 1 4.5 0.5 30 9
..\Data\NosiyGenerationProcess\elk7curv_noise.ccsigskl"
CC2CCSIGSKL ..\Data\NosiyGenerationProcess\elk7_noisy.cc 100 1 4.5 0.5 30 9
..\Data\NosiyGenerationProcess\elk7curv_noise.ccsigskl

rem ====================================================
rem *       Pipeline 5: ply -> sog -> cc -> arbcc          *
rem ====================================================
rem ply->sog ply->mendply
echo "polymender-clean ..\Data\0Ply\elk.ply 6 0.9 ..\Data\1PlyMend\elk6.ply"
polymender-clean ..\Data\0Ply\elk.ply 6 0.9 ..\Data\1PlyMend\elk6.ply
echo "polymender-dc-clean ..\Data\0Ply\elk.ply 6 0.9 ..\Data\1SogOrOctcc\elk6.sog"
polymender-dc-clean ..\Data\0Ply\elk.ply 6 0.9 ..\Data\1SogOrOctcc\elk6.sog
rem sog->cc
echo "sogOctCC2cc.exe ..\Data\1SogOrOctcc\elk6.sog ..\Data\2cc\elk6.cc"
sogOctCC2cc.exe ..\Data\1SogOrOctcc\elk6.sog ..\Data\2cc\elk6.cc
rem cc->arbcc
echo "sklArbcc ..\Data\2cc\elk6.cc 2.5 0.25 2.5 0.25 30 9 ..\Data\3ArbccTetResult\elk6s.arbcc"
sklArbcc ..\Data\2cc\elk6.cc 2.5 0.25 2.5 0.25 30 9 ..\Data\3ArbccTetResult\elk6s.arbcc
echo "sklArbcc ..\Data\2cc\elk6.cc 100 1 2.5 0.25 30 9 ..\Data\3ArbccTetResult\elk6c.arbcc"
sklArbcc ..\Data\2cc\elk6.cc 100 1 2.5 0.25 30 9 ..\Data\3ArbccTetResult\elk6c.arbcc

pause
```