

```

PROGRAM etosig
*****
* Conversion of dielectric functions to sigma function.          *
* the standard input file must have the format x eps1 eps2    *
* The outputfile comes as: x sigma1 sigma2                    *
*****
REAL X(100000),e1,e2
complex epsil(100000),sig
INTEGER I,mm
mm=100000
do 10 i=1,mm
  READ(*,*,END=11) X(i),e1,e2
  epsil(i)=cmplx(e1,e2)
10  continue
11  mm=i-1
do 25 i=1,mm
  sig=(0.,-1.)*(epsil(i)-1)*x(i)*0.5*0.0333795
  write(*,*) x(i),real(sig),aimag(sig)
25  continue
END

```