

```

PROGRAM etor
*****
* Conversion of dielectric functions to log of reflectivity.      *
* the standard input file must have the format x eps1 eps2      *
* The outputfile comes as: x r1 r2                               *
*****
REAL X(100000),e1,e2
complex epsil(100000),cn,cr
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
  cn=csqrt((epsil(i)))
  cr=(cn-1.)/(cn+1.)
  write(*,*) x(i),real(cr),aimag(cr)
25  continue
END

```