```
# representations of e^{-\sqrt{(-i\omega/v)^2+k^2}}z
integer output, outfd, fetch
integer iw,nw,ik,nk, omhat, kxhat, kzhat, degree, tfilt, xfilt
real v, dt, dx, dz, xf, x0, tf, tau0, rho, bi, r0, eps, pi, omega, k, vk2
complex cz, cs, cikz, cexp, cmplx, csqrt, cp(1024)
outfd = output()
                    call putch("esize","i", 8)
                                                   # complex numbers
                    call putch( "n1","i",nw)
                                                   # inner index is \omega
nw = 256;
                    call putch("n2","i",nk)
nk = 64;
                                                   # outer index is k_x
                    call putch( "n3","i", 1)
                                                   # one frame movie
            "v", "f", "dt", "f",
                         v) == 0

dt) == 0
if( fetch(
                                                              # rock vel
                                             = 3.754
if( fetch(
                                         dt = .004
                                                              \# \Delta t, sec
if( fetch(
            "dx", "f",
                                                              \# \Delta x, km
                         dx) == 0
                                         dx = .025
if( fetch(
            "dz", "f",
                                                              \# \Delta z, sec
                         dz) == 0
                                         dz = .004
if( fetch(
                         xf) == 0
            "xf", "f",
                                         xf = .25;
                                                              x0 = xf*nk*dx
if( fetch(
            "tf", "f",
                                         tf = .5;
                         tf) == 0
                                                              tau0=tf*nw*dt
```