```
#ivpw<-function(time,status,weight)
#{
# This functions assumes that the dataset only
# contains observations on non-dropouts and
# dropouts who are double sampled
# time: censored survival time
# status: 1=failure 0=administrative censoring
# weight: 1=if non-dropout, n0/tilde{n0}: sampled dropout
wt.fit<-survfit( Surv(time,status) ~1, weight=weight)
n.tilde<-wt.fit$n.event
y.tilde<-wt.fit$n.risk[n.tilde>0]
ft<-wt.fit$time[n.tilde>0]
n.tilde<-n.tilde[n.tilde>0]
weight2<-weight^2
wt2.fit<-survfit( Surv(time,status) ~1, weight=weight2)
n2.tilde<-wt2.fit$n.event
n2.tilde<-n2.tilde[n2.tilde>0]
dlam<-n.tilde/y.tilde
one.minus=1-dlam
surv<-cumprod(one.minus)
lambda<-cumsum(dlam)
var.dlam<-n2.tilde/(y.tilde^2)
var.lambda<-cumsum(var.dlam)
var.surv<-var.lambda*surv*surv
se.surv<-sqrt(var.surv)
se.var<-sqrt(var.lambda)
}
```