


```

prec[i]<-1/exp(item.par[i,6])                                #  $\sigma_{\varepsilon_i}^{-2}$ 

}

Intime~dnorm(0,.1)                                         #prior on  $\ln(\zeta_1)$ 

time<-exp(Intime)                                         # $\zeta_1$ 

marg~dnorm(0,.1)                                           #prior on  $\zeta_0$ 

item.mu[1:6]~dmnorm(zeros[],item.prec[,])                  # hyperprior on  $\mu_n$ 

item.prec[1:6,1:6]~dwish(R[,],6)                           # hyperprior on  $\Sigma_n^{-2}$ 

sigma2.s.tilde<-1/prec.s

sigma2.s<-sigma2.s.tilde+cor*cor                         #  $\sigma_\tau^2 = \sigma'^2 + \sigma_{\theta\tau}^2$ 

cor~dnorm(0,.1)                                            # hyperprior on  $\sigma_{\theta\tau}$ 

prec.s~dgamma(.1,.1)                                       # hyperprior on  $\sigma'^{-2}$ 

}

```