

### Example 4.2: Data and WinBUGS Code for See et al. (2006) Study 1

See K., Fox C., & Rottenstreich Y., 2006. Between ignorance and truth: Partition dependence and learning in judgment under uncertainty. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 32, 1385-1402.

#### Data

N.B.: Several 'rogue' cases in the DV had to be dealt with. There were several cases with values greater than 1 that appear to be typographical errors, and these were recoded to what seemed to be the most likely true values (e.g., 30 was recoded to .3). Several cases with a value of 0 were recoded to .0005.

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list(N = 267, R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim =
c(3, 3)), x1 = c(-1.79176, -0.69315, -1.79176, -1.79176, -1.79176, -
1.79176, -1.79176, -1.79176, -0.69315, -0.69315), x2 = structure(.Data =
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.05,0.15,0.2,0.15,0.1,0.1,0.5,0.35,0.6,0.4,0.55,0.75,0.55,0.3,0.6,0.4,0.7,0  
.7,0.2,0.25,0.05,0.25,0.2,0.15,0.2,0.2,0.3,0.4,0.3,0.25,0.1,0.1,0.1,0.1,0.1  
5,0.1,0.2,0.4,0.18,0.2,0.17,0.17,0.13,0.15,0.21,0.2,0.37,0.4,0.2,0.2,0.1,0.  
25,0.1,0.1,0.05,0.09,0.4,0.3,0.25,0.35,0.35,0.05,0.25,0.1,0.3,0.25,0.3,0.35  
,0.78,0.12,0.2,0.3,0.4,0.1,0.2,0.4,0.68,0.2,0.28,0.18,0.25,0.35,0.1,0.07,0.  
21,0.24,0.35,0.5,0.3,0.7,0.2,0.2,0.6,0.2,0.2,0.1,0.4,0.3,0.15,0.3,0.15,0.15  
,0.15,0.1,0.1,0.1,0.45,0.3,0.2,0.2,0.15,0.3,0.05,0.1,0.1,0.2,0.45,0.35,0.2,  
0.35,0.25,0.1,0.15,0.1,0.2,0.15,0.4,0.25,0.5,0.1,0.05,0.08,0.3,0.1,0.05,0.1  
,0.5,0.4,0.25,0.05,0.1,0.1,0.2,0.05,0.15,0.2,0.3,0.25,0.3,0.5,0.1,0.15,0.15  
,0.15,0.25,0.25,0.33,0.4,0.2,0.15,0.18,0.15,0.15,0.2,0.09,0.1,0.4,0.3,0.22,  
0.35,0.1,0.08,0.06,0.15,0.2,0.2,0.45,0.2,0.25,0.26,0.12,0.12,0.17,0.01,0.14  
,0.17,0.3,0.35,0.45,0.2,0.08,0.1,0.15,0.2,0.2,0.35,0.3,0.45,0.7,0.6,0.4,0.3  
,0.65,0.2,0.5,0.3,0.65,0.75,0.15,0.3,0.1,0.2,0.15,0.1,0.05,0.35,0.55,0.15,0  
.25,0.3,0.2,0.15,0.2,0.15,0.15,0.1,0.25,0.4,0.18,0.25,0.19,0.17,0.18,0.1,0.  
16,0.18,0.35,0.37,0.25,0.15,0.15,0.2,0.2,0.25,0.3,0.3,0.4,0.65,0.25,0.2,0.2  
,0.14,0.1,0.15,0.18,0.11,0.65,0.3,0.15,0.4,0.15,0.1,0.3,0.25,0.05,0.1,0.25,  
0.35,0.35,0.3,0.15,0.1,0.1,0.35,0.2,0.3,0.4,0.4,0.45,0.25,0.15,0.01,0.05,0.  
05,0.1,0.25,0.15,0.5,0.12,0.33,0.13,0.12,0.14,0.15,0.12,0.12,0.33,0.33,0.15  
,0.2,0.08,0.06,0.1,0.05,0.1,0.11,0.5,0.3,0.14,0.1,0.2,0.14,0.2,0.14,0.3,0.2  
5,0.4,0.4,0.2,0.25,0.2,0.2,0.15,0.18,0.2,0.25,0.4,0.4,0.37,0.21,0.11,0.12,0  
.08,0.12,0.27,0.48,0.29,0.6,0.18,0.33,0.15,0.12,0.14,0.15,0.15,0.14,0.33,0.  
33,0.2,0.3,0.2,0.15,0.15,0.1,0.1,0.15,0.4,0.4,0.4,0.15,0.33,0.2,0.1,0.1,0.2  
,0.3,0.25,0.5,0.15,0.2,0.25,0.15,0.3,0.15,0.08,0.08,0.08,0.35,0.1,0.1,0.2,0  
.25,0.3,0.1,0.1,0.1,0.4,0.5,0.3,0.25,0.1,0.2,0.2,0.1,0.15,0.4,0.25,0.5,0.15  
,0.2,0.2,0.2,0.15,0.1,0.15,0.2,0.3,0.3,0.1,0.28,0.12,0.08,0.2,0.2,0.15,0.18  
,0.35,0.4,0.4,0.39,0.4,0.2,0.05,0.3,0.5,0.19,0.43,0.5,0.16,0.3,0.35,0.7,0.4  
5,0.2,0.35,0.25,0.7,0.2,0.23,0.45,0.2,0.1,0.1,0.15,0.2,0.05,0.28,0.35,0.15,  
0.2,0.1,0.1,0.1,0.15,0.2,0.2,0.5,0.3,0.25,0.2,0.03,0.2,0.16,0.1,0.22,0.15,0  
.33,0.5,0.12,0.25,0.09,0.2,0.15,0.15,0.09,0.12,0.25,0.35,0.2,0.2,0.05,0.000  
5,0.15,0.2,0.65,0.2,0.15,0.65,0.15,0.25,0.13,0.07,0.07,0.18,0.15,0.15,0.3,0  
.45,0.2,0.5,0.15,0.2,0.12,0.1,0.08,0.15,0.4,0.22,0.2,0.4,0.05,0.05,0.05,0.3  
5,0.15,0.3,0.2,0.4,0.3,0.1,0.05,0.3,0.05,0.05,0.15,0.15,0.5,0.4,0.35,0.25,0  
.1,0.2,0.18,0.28,0.14,0.15,0.2,0.45,0.1,0.15,0.1,0.1,0.12,0.12,0.08,0.2,0.4  
,0.45,0.2,0.4,0.1,0.1,0.3,0.05,0.1,0.3,0.3,0.3,0.3,0.2,0.2,0.2,0.2,0.1,  
0.05,0.15,0.33,0.65,0.35,0.15,0.25,0.35,0.15,0.05,0.02,0.2,0.45,0.4,0.2,0.2  
,0.2,0.05,0.05,0.2,0.25,0.5,0.4,0.35,0.4,0.2,0.25,0.1,0.4,0.2,0.2,0.25,0.5,  
0.45,0.15,0.2,0.25,0.15,0.15,0.1,0.2,0.6,0.25,0.2,0.4,0.1,0.2,0.15,0.2,0.25  
,0.1,0.4,0.2,0.25,0.35,0.15,0.2,0.15,0.15,0.15,0.15,0.35,0.3,0.999,0.2,0.66  
,0.999,0.999,0.999,0.66,0.999,0.6,0.2,0.35,0.3,0.2,0.08,0.1,0.09,0.05,0.22,  
0.5,0.15,0.15,0.2,0.4,0.15,0.3,0.15,0.05,0.1,0.2,0.6,0.2,0.1,0.1,0.2,0.  
1,0.5,0.3,0.4,0.3,0.2,0.25,0.35,0.3,0.1,0.2,0.05,0.1,0.4,0.5,0.23,0.1,0.12,  
0.07,0.1,0.08,0.18,0.2,0.4,0.4,0.25,0.5,0.25,0.15,0.2,0.3,0.1,0.1,0.3,0.1,0  
.05,0.3,0.04,0.1,0.08,0.2,0.45,0.3,0.2,0.6,0.2,0.5,0.02,0.25,0.3,0.4,0.3,0.  
1,0.1,0.4,0.3,0.2,0.05,0.15,0.15,0.2,0.15,0.15,0.4,0.4,0.65,0.75,0.12,0.2,0  
.2,0.12,0.25,0.4,0.3,0.3,0.25,0.3,0.1,0.15,0.25,0.05,0.15,0.4,0.5,0.3,0.15,  
0.33,0.15,0.13,0.15,0.16,0.15,0.15,0.33,0.33,0.2,0.15,0.1,0.1,0.1,0.2,0.2,0  
.1,0.45,0.4,0.3,0.2,0.1,0.1,0.1,0.15,0.1,0.15,0.2,0.6,0.3,0.4,0.05,0.2,0.1,  
0.01,0.25,0.1,0.1,0.4,0.4,0.45,0.3,0.1,0.15,0.2,0.4,0.05,0.35,0.2,0.4,0.1,0  
.05,0.15,0.15,0.25,0.3,0.35,0.55,0.35,0.2,0.25,0.1,0.15,0.15,0.25,0.15,0.1,  
0.4,0.4,0.05,0.25,0.1,0.4,0.1,0.15,0.15,0.1,0.5,0.35,0.03,0.03,0.03,0.04,0.  
03,0.01,0.03,0.03,0.04,0.02,0.2,0.4,0.1,0.2,0.1,0.15,0.3,0.3,0.25,0.3,0.3,0  
.1,0.35,0.1,0.15,0.1,0.4,0.2,0.75,0.15,0.1,0.25,0.22,0.2,0.13,0.5,0.23,0.1,  
0.35,0.4,0.2,0.2,0.1,0.15,0.15,0.25,0.3,0.2,0.4,0.4,0.25,0.08,0.15,0.08,0.1  
2,0.1,0.22,0.2,0.26,0.6,0.35,0.3,0.17,0.2,0.2,0.15,0.15,0.4,0.45,0.3,0.13,0  
.33,0.13,0.13,0.14,0.14,0.15,0.15,0.33,0.33,0.15,0.2,0.18,0.15,0.25,0.05,0.

```

15,0.2,0.45,0.3,0.5,0.3,0.2,0.4,0.05,0.2,0.2,0.2,0.45,0.5,0.65,0.45,0.1,0.0
005,0.15,0.3,0.1,0.05,0.35,0.3,0.1,0.25,0.2,0.1,0.2,0.15,0.15,0.2,0.5,0.2,0
.23,0.15,0.17,0.13,0.22,0.13,0.23,0.13,0.33,0.5,0.17,0.25,0.1,0.1,0.1,0.2,0
.22,0.08,0.4,0.43,0.2,0.35,0.05,0.15,0.18,0.2,0.2,0.2,0.15,0.5,0.15,0.25,0.
15,0.25,0.3,0.3,0.1,0.15,0.2,0.3,0.14,0.35,0.17,0.16,0.14,0.13,0.07,0.16,0.
45,0.2,0.2,0.33,0.2,0.1,0.1,0.1,0.1,0.2,0.33,0.33,0.22,0.25,0.1,0.1,0.1,0.2
,0.15,0.2,0.4,0.35,0.2,0.45,0.2,0.2,0.2,0.1,0.25,0.25,0.65,0.3,0.3,0.1,0.1,
0.2,0.1,0.2,0.1,0.1,0.5,0.4,0.25,0.23,0.33,0.33,0.1,0.1,0.1,0.1,0.37,0.4,0.
25,0.3,0.05,0.2,0.2,0.15,0.1,0.15,0.4,0.3,0.5,0.25,0.2,0.1,0.05,0.05,0.1,0.
15,0.25,0.5,0.24,0.2,0.18,0.19,0.2,0.15,0.1,0.18,0.5,0.3,0.3,0.33,0.06,0.16
,0.2,0.3,0.55,0.16,0.4,0.25,0.3,0.3,0.05,0.2,0.1,0.2,0.1,0.05,0.4,0.3,0.1,0
.2,0.2,0.2,0.4,0.1,0.1,0.05,0.35,0.65,0.2,0.4,0.02,0.05,0.1,0.3,0.05,0.2,0.
4,0.3,0.3,0.4,0.1,0.2,0.05,0.1,0.2,0.1,0.25,0.35,0.2,0.4,0.13,0.13,0.17,0.1
8,0.18,0.25,0.45,0.2,0.31,0.28,0.26,0.07,0.08,0.1,0.29,0.12,0.31,0.36,0.4,0
.2,0.3,0.2,0.2,0.3,0.2,0.3,0.6,0.4,0.15,0.12,0.1,0.05,0.15,0.15,0.2,0.15,0.
45,0.43,0.4,0.5,0.05,0.05,0.05,0.5,0.2,0.1,0.3,0.35,0.15,0.25,0.15,0.15,0.1
6,0.2,0.18,0.1,0.5,0.25,0.15,0.3,0.15,0.15,0.2,0.15,0.15,0.15,0.3,0.4,0.25,
0.15,0.08,0.22,0.2,0.3,0.15,0.1,0.5,0.3,0.14,0.33,0.14,0.14,0.14,0.14,0.14,
0.14,0.33,0.33,0.05,0.2,0.1,0.2,0.3,0.2,0.0005,0.05,0.4,0.4,0.3,0.2,0.05,0.
05,0.1,0.05,0.1,0.3,0.3,0.5,0.15,0.3,0.2,0.15,0.1,0.15,0.15,0.05,0.3,0.3,0.
2,0.4,0.12,0.1,0.15,0.1,0.15,0.2,0.25,0.35,0.2,0.4,0.2,0.15,0.1,0.1,0.1,0.1
,0.4,0.2,0.3,0.2,0.1,0.2,0.2,0.2,0.05,0.1,0.4,0.3,0.5,0.15,0.1,0.1,0.3,0.1,
0.1,0.0005,0.3,0.55,0.2,0.35,0.12,0.2,0.2,0.15,0.15,0.14,0.3,0.4,0.2,0.25,0
.2,0.15,0.05,0.05,0.15,0.2,0.4,0.4,0.2,0.35,0.3,0.3,0.2,0.15,0.25,0.2,0.2,0
.3,0.1,0.25,0.1,0.15,0.3,0.15,0.1,0.35,0.4,0.35,0.35,0.6,0.15,0.1,0.2,0.3,0
.3,0.25,0.37,0.3,0.05,0.3,0.2,0.2,0.1,0.3,0.07,0.23,0.25,0.4,0.25,0.5,0.15,
0.1,0.1,0.1,0.3,0.08,0.65,0.1,0.35,0.2,0.4,0.07,0.13,0.13,0.13,0.1,0.23,0.6
,0.2,0.25,0.2,0.15,0.1,0.1,0.05,0.3,0.35,0.35,0.15,0.3,0.1,0.1,0.2,0.15,0.2
,0.15,0.3,0.4,0.25,0.35,0.1,0.05,0.05,0.45,0.1,0.1,0.25,0.4,0.1,0.25,0.15,0
.1,0.2,0.2,0.17,0.15,0.4,0.4,0.65,0.15,0.05,0.1,0.15,0.05,0.05,0.1,0.55,0.3
,0.35,0.33,0.05,0.35,0.1,0.15,0.15,0.15,0.33,0.33,0.15,0.25,0.2,0.15,0.2,0.
1,0.1,0.2,0.2,0.5,0.18,0.4,0.12,0.15,0.1,0.1,0.15,0.1,0.4,0.25,0.18,0.2,0.1
4,0.12,0.23,0.08,0.05,0.15,0.22,0.45,0.45,0.45,0.2,0.25,0.24,0.1,0.25,0.35,
0.25,0.6,0.23,0.46,0.14,0.12,0.26,0.1,0.1,0.4,0.45,0.15,0.3,0.3,0.1,0.1,0.1
,0.2,0.1,0.2,0.5,0.2,0.35,0.3,0.3,0.2,0.15,0.6,0.2,0.0005,0.4,0.5,0.2,0.25,
0.15,0.2,0.15,0.15,0.1,0.0005,0.25,0.5,0.28,0.15,0.05,0.13,0.08,0.1,0.4,0.1
5,0.35,0.5,0.3,0.1,0.2,0.2,0.1,0.05,0.1,0.05,0.4,0.03,0.2,0.25,0.15,0.1,0.2
,0.15,0.2,0.15,0.4,0.35,0.4,0.35,0.25,0.2,0.3,0.45,0.2,0.35,0.35,0.2,0.1,0.
3,0.2,0.3,0.15,0.3,0.05,0.1,0.4,0.3,0.2,0.33,0.15,0.15,0.0005,0.15,0.2,0.15
,0.33,0.33), .Dim = c(267,10))

```

## Model 0

```

# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random intercepts
# in the location submodel.
# The DV x1 is the partition prime (either ln(1/2) or ln(1/6)), and
# x2 is ln(true odds) of the jth stimulus for each subject. Note that
# while it's fixed for the "target" stimuli it's random for the rest.
#
# To run this model, delete the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# from the first line in the data above.
#
model
{
  ## Main routine
  for(i in 1:N){
    for(j in 1:10){

m[i,j] <- beta0 + u[i] + beta1*x1[j] + beta2*x2[i,j]
disp[i,j] <- -delta0

```

```

E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))
phi[i,j] <- exp(displ[i,j])
a[i,j] <- E[i,j]*phi[i,j]
b[i,j] <- (1-E[i,j])*phi[i,j]
p[i,j] ~ dbeta(a[i,j], b[i,j])
}
u[i] ~ dnorm(0,taub1)
}
## location and dispersion
mu0 <- exp(beta0)/(1+exp(beta0))
mu1 <- exp(beta1)/(1+exp(beta1))
mu2 <- exp(beta2)/(1+exp(beta2))
phi0 <- exp(-delta0)
## Priors
beta0 ~ dnorm(0.0, 1.0E-6)
beta1 ~ dnorm(0.0, 1.0E-6)
beta2 ~ dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
sigb1 ~ dunif(0,100)
taub1 <- 1/(sigb1*sigb1)
}

# Inits for 2-chain model
# Note that these leave out the 267 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1)

```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

### Model 1

```

# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random coefficients
# in the location submodel. These random effects are independent.
#
# To run this model, delete the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# from the first line in the data above.
#
model
{
  ## Main routine
  for(i in 1:N){
    for(j in 1:10){
      m[i,j] <- beta0 + u[i,1] + (beta1 + u[i,2])*x1[j] + (beta2 + u[i,3])*x2[i,j]
      disp[i,j] <- -delta0
      E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))
      phi[i,j] <- exp(displ[i,j])
      a[i,j] <- E[i,j]*phi[i,j]
      b[i,j] <- (1-E[i,j])*phi[i,j]
      p[i,j] ~ dbeta(a[i,j], b[i,j])
    }
    u[i,1] ~ dnorm(0,taub1)
    u[i,2] ~ dnorm(0,taub2)
    u[i,3] ~ dnorm(0,taub3)
  }
  ## location and dispersion
  mu0 <- exp(beta0)/(1+exp(beta0))
  mu1 <- exp(beta1)/(1+exp(beta1))
  mu2 <- exp(beta2)/(1+exp(beta2))

```

```

phi0 <- exp(-delta0)
## Priors
beta0 ~ dnorm(0.0, 1.0E-6)
beta1 ~ dnorm(0.0, 1.0E-6)
beta2 ~ dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
sig1 ~ dunif(0,100)
taub1 <- 1/(sig1*sig1)
sig2 ~ dunif(0,100)
taub2 <- 1/(sig2*sig2)
sig3 ~ dunif(0,100)
taub3 <- 1/(sig3*sig3)
}

# Inits for 2-chain model
# Note that these leave out the 267x3 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1, sig1 = 1.0, sig2 = 1.0,
sig3 = 0.5)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1, sig1 = 0.5, sig2 = 1.0,
sig3 = 1.0)

```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

## Model 2

```

# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random coefficients
# in the location submodel. These random effects are correlated.
#
# To run this model, make sure the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# is in the first line in the data above.
#
model
{
  ## Main routine
  for (j in 1:3) {
    mu[j] <- 0.0
  }
  for(i in 1:N){
    for(j in 1:10){
      m[i,j] <- beta0 + u[i,1] + (beta1 + u[i,2])*x1[j] + (beta2 +
u[i,3])*x2[i,j]
      disp[i,j] <- -delta0
      E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))
      phi[i,j] <- exp(disp[i,j])
      a[i,j] <- E[i,j]*phi[i,j]
      b[i,j] <- (1-E[i,j])*phi[i,j]
      p[i,j] ~ dbeta(a[i,j], b[i,j])
    }
    u[i,1:3] ~ dmnorm(mu[], Omega[ , ])
  }
  ## location and dispersion
  mu0 <- exp(beta0)/(1+exp(beta0))
  mu1 <- exp(beta1)/(1+exp(beta1))
  mu2 <- exp(beta2)/(1+exp(beta2))
  phi0 <- exp(-delta0)
  ## Priors
  beta0 ~ dnorm(0.0, 1.0E-6)

```

```

beta1 ~ dnorm(0.0, 1.0E-6)
beta2 ~ dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
Omega[1 : 3 , 1 : 3] ~ dwish(R[,], 3)
Sigma[1 : 3 , 1 : 3] <- inverse(Omega[,])
}

# Inits for 2-chain model
# Note that these leave out the 267x3 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1)

```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

### Model with Random Intercept in Dispersion Submodel

```

#
# To run this model, delete the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# from the first line in the data above.
#
model
{
  ## Main routine
  for(i in 1:N){
    for(j in 1:10){
      m[i,j] <- beta0 + beta1*x1[j] + beta2*x2[i,j]
      disp[i,j] <- -delta0 + v[i]
      E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))
      phi[i,j] <- exp(disp[i,j])
      a[i,j] <- E[i,j]*phi[i,j]
      b[i,j] <- (1-E[i,j])*phi[i,j]
      p[i,j] ~ dbeta(a[i,j], b[i,j])
    }
    v[i] ~ dnorm(0,tauv)
  }
  ## location and dispersion
  mu0 <- exp(beta0)/(1+exp(beta0))
  mu1 <- exp(beta1)/(1+exp(beta1))
  mu2 <- exp(beta2)/(1+exp(beta2))
  phi0 <- exp(-delta0)
  ## Priors
  beta0 ~ dnorm(0.0, 1.0E-6)
  beta1 ~ dnorm(0.0, 1.0E-6)
  beta2 ~ dnorm(0.0, 1.0E-6)
  delta0 ~ dnorm(0.0, 1.0E-6)
  sigv ~ dunif(0,100)
  tauv <- 1/(sigv*sigv)
}

# Inits for 2-chain model
# Note that these leave out the 267 initial values for the
# random effects v-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1, sigv = 1.0)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1, sigv = 0.5)

```

This model takes longer than the others to converge.

Recommended burn-in = 10000 iterations, recommended estimation = 10000 more iterations.