

%overall%

```
f1 BY u11*1.70 u12-u19*1;
u20@1;
f2 BY u21*1 u22*1.70 u23-u30*1;
f3 BY u31-u32*1 u33*1.35 u34-u40*1;
f4 BY u41-u43*1 u44*1.35 u45-u50*1;
f5 BY u51-u54*1 u55*1.35 u56-u60*1;
[u11$1-u15$1*0 u16$1-u17$1*.7 u18$1-u20$1*0];
[u21$1-u30$1*0] (tau1_21-tau1_210);
[u31$1-u40$1*0] (tau1_31-tau1_310);
[u41$1-u50$1*0] (tau1_41-tau1_410);
[u51$1-u55$1*0 u56$1-u57$1*-.7 u58$1-u60$1*0];
[f1-f5@0];
f1*3 f2*2.5 f3*2 f4*1.5 f5*1;
i s | f1@0 f2@.5 f3@1 f4@1.5 f5@2;
[i@0 s*.5];
i*.5 s*.2; i WITH s*.1;
```

%c#1%

```
f1 BY u11*1.70 u12-u19*1 (lam1_11-lam1_19)
f2 BY u21*1 u22*1.70 u23-u30*1 (lam1_21-lam1_210);
f3 BY u31-u32*1 u33*1.35 u34-u40*1 (lam1_31-lam1_310);
f4 BY u41-u43*1 u44*1.35 u45-u50*1 (lam1_41-lam1_410);
f5 BY u51-u54*1 u55*1.35 u56-u60*1 (lam1_51-lam1_510);
[u11$1-u15$1*0 u16$1-u17$1*.7 u18$1-u20$1*0] (tau1_11-tau1_110);
[u21$1-u30$1*0] (tau1_21-tau1_210);
[u31$1-u40$1*0] (tau1_31-tau1_310);
[u41$1-u50$1*0] (tau1_41-tau1_410);
[u51$1-u55$1*0 u56$1-u57$1*-.7 u58$1-u60$1*0] (tau1_51-tau1_510);
```

%c#2%

```
f1 BY u11*1.70 u12-u19*1 (lam2_11-lam2_19)
f2 BY u21*1 u22*1.70 u23-u30*1 (lam2_21-lam2_210);
f3 BY u31-u32*1 u33*1.35 u34-u40*1 (lam2_31-lam2_310);
f4 BY u41-u43*1 u44*1.35 u45-u50*1 (lam2_41-lam2_410);
f5 BY u51-u54*1 u55*1.35 u56-u60*1 (lam2_51-lam2_510);
[u11$1-u15$1*0 u16$1-u17$1*.7 u18$1-u20$1*0] (tau2_11-tau2_110);
[u21$1-u30$1*0] (tau2_21-tau2_210);
[u31$1-u40$1*0] (tau2_31-tau2_310);
[u41$1-u50$1*0] (tau2_41-tau2_410);
[u51$1-u55$1*0 u56$1-u57$1*-.7 u58$1-u60$1*0] (tau2_51-tau2_510);
```

%c#3%

```
f1 BY u11*1.70 u12-u19*1 (lam3_11-lam3_19)
f2 BY u21*1 u22*1.70 u23-u30*1 (lam3_21-lam3_210);
f3 BY u31-u32*1 u33*1.35 u34-u40*1 (lam3_31-lam3_310);
f4 BY u41-u43*1 u44*1.35 u45-u50*1 (lam3_41-lam3_410);
f5 BY u51-u54*1 u55*1.35 u56-u60*1 (lam3_51-lam3_510);
```

```
[u11$1-u15$1*0 u16$1-u17$1*.7 u18$1-u20$1*0] (tau3_11-tau3_110);  
[u21$1-u30$1*0] (tau3_21-tau3_210);  
[u31$1-u40$1*0] (tau3_31-tau3_310);  
[u41$1-u50$1*0] (tau3_41-tau3_410);  
[u51$1-u55$1*0 u56$1-u57$1*-.7 u58$1-u60$1*0] (tau3_51-tau3_510);
```

MODEL PRIORS:

```
DO(1,9) DIFF(lam1_1#-lam1_5#)~N(0,0.10);  
DO(1,9) DIFF(tau1_1#-tau1_5#)~N(0,0.10);  
  
DO(2,9) DIFF(lam2_1#-lam2_5#)~N(0,0.10);  
DO(2,9) DIFF(tau2_1#-tau2_5#)~N(0,0.10);  
  
DO(2,9) DIFF(lam3_1#-lam3_5#)~N(0,0.10);  
DO(2,9) DIFF(tau3_1#-tau3_5#)~N(0,0.10);  
  
DO (1,3) lam#_210~N(1,0.10);  
DO (1,3) lam#_310~N(1,0.10);  
DO (1,3) lam#_410~N(1,0.10);  
DO (1,3) lam#_510~N(1,0.10);
```