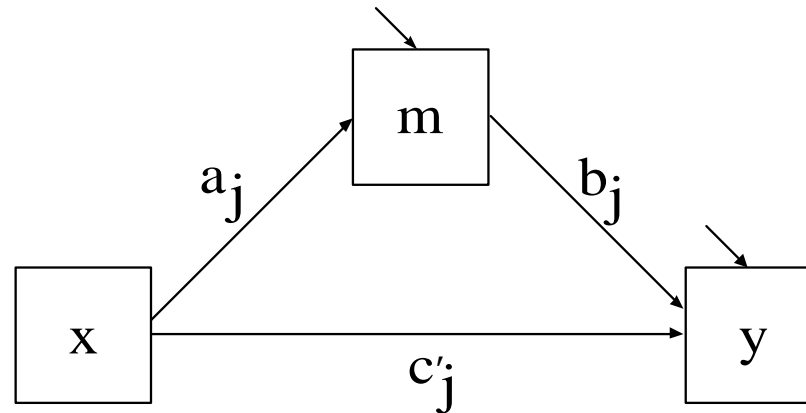


Two-Level Mediation



Indirect effect:

$$\alpha * \beta + Cov(a_j, b_j)$$

Bauer, Preacher & Gil (2006). Conceptualizing and testing random indirect effects and moderated mediation in multilevel models: New procedures and recommendations. *Psychological Methods*, 11, 142-163.

Input For Two-Level Mediation

MONTECARLO:

```
NAMES ARE y m x;  
WITHIN = x;  
NOBSERVATIONS = 1000;  
NCSIZES = 1;  
CSIZES = 100 (10);  
NREP = 100;
```

MODEL POPULATION:

```
%WITHIN%  
c | y ON x;  
b | y ON m;  
a | m ON x;  
x*1; m*1; y*1;  
%BETWEEN%  
y WITH m*0.1 b*0.1 a*0.1 c*0.1;  
m WITH b*0.1 a*0.1 c*0.1;  
a WITH b*0.1 c*0.1;  
b WITH c*0.1;  
y*1 m*1 a*1 b*1 c*1;  
[a*0.4 b*0.5 c*0.6];
```

Input For Two-Level Mediation (Continued)

ANALYSIS:

```
TYPE = TWOLEVEL RANDOM;
```

MODEL:

```
%WITHIN%  
c | y ON x;  
b | y ON m;  
a | m ON x;  
m*1; y*1;  
%BETWEEN%  
y WITH M*0.1 b*0.1 a*0.1 c*0.1;  
m WITH b*0.1 a*0.1 c*0.1;  
a WITH b*0.1 (cab);  
a WITH c*0.1;  
b WITH c*0.1;  
y*1 m*1 a*1 b*1 c*1;  
[a*0.4] (ma);  
[b*0.5] (mb);  
[c*0.6];
```

MODEL CONSTRAINT:

```
NEW(m*0.3);  
m=ma*mb+cab;
```