

附录、生成一个 400 个案数据并检验上述假设的 SPSS Syntax 文件

```
*Party 0: Create data.
set seed=20110606. /*To ensure the same results on different machines and
different days.
new file.
input program.
loop #i=1 to 400.
compute id=#i.
end case.
end loop.
end file.
end input program.
exe.

*Part 1: Create raw scores of X, Z, and XZ.
compute X=rv.normal(5,2).
compute Z=rv.normal(5,2).
compute XZ=X*Z.
descr X Z XZ.
cor X Z XZ.

*Part 2: Create centered scores of Xc, Zc, and XZc.
compute c=1.
agg out/break c/Xm=mean(X)/Xs=sd(X)/Zm=mean(Z)/Zs=sd(Z). /*Calculate mean
and standard deviation of X and Z.
descr Zm Xs Zm Zs.
compute Xc=X-Xm.
compute Zc=Z-Zm.
compute XZc=Xc*Zc.
descr Xc Zc XZc.
cor X Z Xc Zc XZc.

*Part 2: Create standardized scores of Xz, Zz, and XZz.
compute XZ=(X-Xm)/Xs.
compute ZZ=(Z-Zm)/Zs.
compute XZz=Xz*Zz.
descr Xz Zz XZz.
cor X Xc Xz Z Zc Zz XZz.
```