TITLE 'FATORIAL 3 FATORES';**data** verdao;input Trat A B C Rep Resp;

cards;

1 1 1 1 1 11

1 1 1 1 2 10

1 1 1 1 3 9

2 1 1 2 1 10

2 1 1 2 2 11

2 1 1 2 3 12

3 1 2 1 1 13

3 1 2 1 2 12

3 1 2 1 3 11

4 1 2 2 1 11

4 1 2 2 2 10

4 1 2 2 3 9

5 2 1 1 1 5

5 2 1 1 2 6

5 2 1 1 3 7

6 2 1 2 1 5

6 2 1 2 2 4

6 2 1 2 3 3

7 2 2 1 1 4

7 2 2 1 2 5

7 2 2 1 3 6

8 2 2 2 1 6

8 2 2 2 2 6

8 2 2 2 3 7

9 3 1 1 1 9

9 3 1 1 2 10

9 3 1 1 3 11

10 3 1 2 1 11

10 3 1 2 2 10

10 3 1 2 3 9

11 3 2 1 1 21

11 3 2 1 2 20

11 3 2 1 3 19

12 3 2 2 1 19

12 3 2 2 2 20

12 3 2 2 3 21

;

**proc** **print**; **run**;

**proc** **glm**;

class Trat A B C Rep;

model Resp = A | B|C;

random A|B| C;

**run**;

**proc** **glm**;

class Trat A B C Rep;

model Resp = A | B|C;

random A|B| C;

random B C A\*B A\*C B\*C A\*B\*C/test;

**run**;

\*misto A fixo, B,C e interações aleatórias;

**proc** **mixed**;

class A B C Rep;

model resp= A;

random B C A\*B A\*C B\*C A\*B\*C/solution;

**run**;

**proc** **mixed**;

class A B C Rep;

model resp= A/ddfm=Satterthwaite;

random B C A\*B A\*C B\*C A\*B\*C/solution;

lsmeans A/adjust=tukey;

**run**;

Source Type III Expected Mean Square

A Var(Error) + 3 Var(A\*B\*C) + 6 Var(A\*C) + 6 Var(A\*B) + 12 Var(A)

B Var(Error) + 3 Var(A\*B\*C) + 9 Var(B\*C) + 6 Var(A\*B) + 18 Var(B)

A\*B Var(Error) + 3 Var(A\*B\*C) + 6 Var(A\*B)

C Var(Error) + 3 Var(A\*B\*C) + 9 Var(B\*C) + 6 Var(A\*C) + 18 Var(C)

A\*C Var(Error) + 3 Var(A\*B\*C) + 6 Var(A\*C)

B\*C Var(Error) + 3 Var(A\*B\*C) + 9 Var(B\*C)

A\*B\*C Var(Error) + 3 Var(A\*B\*C)