```
DATA BLOCOAU;
INPUT
TRAT$ BLOCO RESP;
CARDS;
A       1       128
A       2       120
A       3       130
A       4       116
B       1       110
B       2       112
B       3       121
B       4       102
C       1       122
C       2       131
C       3       145
C       4       133


D       1       129
E       1       112
F       1       156
G       2       129
H       2       154
I       2       165
J       3       131
K       3       136
L       3       126
M       4       111
N       4       131
P       4       134
;

PROC GLM;
CLASS TRAT BLOCO;
MODEL RESP= BLOCO TRAT;
LSMEANS TRAT;
LSMEANS TRAT/ADJUST =T LINES;
RUN;
```

Class Level Information

Class	Levels	Values
TRAT	15	A B C D E F G H I J K L M N P
BLOCO	4	1 2 3 4

Number of Observations Read	24
Number of Observations Used	24

Dependent Variable: RESP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	5172.500000	304.264706	9.34	0.0056
Error	6	195.500000	32.583333		
Corrected Total	23	5368.000000			

R-Square	Coeff Var	Root MSE	RESP Mean
0.963580	4.442164	5.708181	128.5000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BLOCO	3	676.000000	225.333333	6.92	0.0225
TRAT	14	4496.500000	321.178571	9.86	0.0050

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BLOCO	3	387.000000	129.000000	3.96	0.0715
TRAT	14	4496.500000	321.178571	9.86	0.0050

The GLM Procedure
Least Squares Means

TRAT	RESP LSMEAN	LSMEAN Number
A	123.500000	1
B	111.250000	2
C	132.750000	3
D	131.500000	4
E	114.500000	5
F	158.500000	6
G	130.500000	7
H	155.500000	8
I	166.500000	9
J	121.500000	10
K	126.500000	11
L	116.500000	12
M	116.500000	13
N	136.500000	14
P	139.500000	15

T Comparison Lines for Least Squares Means of TRAT

LS-means with the same letter are not significantly different.

		RESP LSMEAN	TRAT	LSMEAN Number
	A	166.50	I	9
	A			
B	A	158.50	F	6

```
B    A
B    A         155.50    H         8
B
B    C         139.50    P         15
B    C
B    C    D    136.50    N         14
     C    D
     C    D    132.75    C         3
     C    D
     C    D    131.50    D         4
     C    D
     C    D    130.50    G         7
     C    D
E    C    D    126.50    K         11
E    C    D
E    C    D    123.50    A         1
E    C    D
E    C    D    121.50    J         10
E         D
E         D    116.50    L         12
E         D
E         D    116.50    M         13
E         D
E         D    114.50    E         5
E
E              111.25    B         2
```

        The LINES display does not reflect all significant comparisons. The following
additional pairs are significantly different: (14,13) (3,5) (1,2)

NOTE: To ensure overall protection level, only probabilities associated with pre-planned
comparisons should be used.