

621-625	gain		centroids	
	D	E	D	E
	1.358	1.009	23.988	49.799
	1.372	1.014	24.162	49.905
	1.376	1.016	24.424	49.961
	1.373	1.017	24.158	49.960
	1.375	1.019	24.177	50.002
ΣX^2	5	5	5	5
ΣX	1.3708	1.015	24.1818	49.9254
	9.395678	5.15183	24.23.894457	124.62.75255
	6.854	5.075	120.909	249.627
611, 14, 15, 16-20				
	1.374	1.017	24.261	50.554
	"	1.008	24.198	49.767
	"	1.011	24.180	49.830
	"	1.015	24.276	50.512
	"	1.013	24.170	49.873
	"	1.014	24.282	50.493
	1.370	1.014	24.226	50.495

$$t = r \sqrt{(N-2)/(1-r^2)}$$

highest = $E_{cent} / E_g = .99372$

2 tail 2

$$t = .99372 \sqrt{(5-2)/(1 - .99372^2)} \\ = 15.3819$$

5.001

lowest D_c / E_g $r = .57194$ $t = 1.2076$ $.5 < .611$

The correct centroids are apparently known
the problem is to select the D & E gain factors

this is a 3 value problem?

GAIN FACTORS CENTROIDS
 ---D--- ---E---
 1.358 1.009 23.988 49.799
 1.372 1.014 24.162 49.905
 1.376 1.016 24.424 49.961
 1.373 1.017 24.158 49.960
 1.375 1.019 24.177 50.002

XBAR = MEANS

1.37080	1.01500	24.18180	49.92540
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STD = STANDARD DEVIATIONS

0.00733	0.00381	0.15588	0.07862
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RX = SUMS OF CROSS PRODUCTS OF DEVIATIONS FROM MEANS

0.00021	0.00010	0.00364	0.00218
0.00010	0.00006	0.00136	0.00119
0.00364	0.00136	0.09720	0.03233
0.00218	0.00119	0.03233	0.02472

R = CORRELATION COEFFICIENTS

1.000	0.914	1.000	0.797	0.572	1.000	0.944	0.994	0.660	1.000
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B = SUMS OF CROSS PRODUCTS

0.00021	0.00006	0.09720	0.02472
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FORMATTED MATRIX OF CORRELATIONS

gain D	1.00000	0.91384	0.79745	0.94439
gain E	0.91384	1.00000	0.57194	0.99372
cen D	0.79745	0.57194	1.00000	0.65950
cen E	0.94439	0.99372	0.65950	1.00000

D E

criterion

D E

leverage

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CH1 IMPCOR
CH2 CORRELATION FOR IMP GAIN FACTORS
CH5 X      ARRAY OF MEANS
CH5
CH5 M      NUMBER OF VARIABLES
CH5 N      NUMBER OF OBSERVATIONS
*   DIMENSION X(5,4),XBAR(4),STD(4),RX(4,4),R(12),B(4),
*   ,RSAVE(10)
*   DATA X/1.358 ,1.372 ,1.376 ,1.373 ,1.375
*          ,1.009 ,1.014 ,1.016 ,1.017 ,1.019
*          ,23.988,24.162,24.424,24.158,24.177
*          ,49.799,49.905,49.961,49.960,50.002/
DATA M,N/4,5/
WRITE(6,100)
100  WRITE(6,110) ((X(I,J),J=1,4),I=1,5)
*   FORMAT(1X,'GAIN FACTORS CENTROIDS',
*          1X,'-----')
110  FORMAT((2(1X,F5.3),2(1X,F6.3)))
CALL CORRE(5,4,1,X,XBAR,STD,RX,R,B,D,T)
WRITE(6,120) XBAR,STD,RX,R,B
120  FORMAT(1X,'XBAR= MEANS'/4(1X,F12.5)/
*   1X,'STD= STANDARD DEVIATIONS'/4(1X,F12.5)/
*   1X,'RX= SUMS OF CROSS PRODUCTS OF DEVIATIONS FROM
*   4(4(1X,F12.5))/'
*   1X,'R= CORRELATION COEFFICIENTS'/12(1X,F5.3)/
*   1X,'B= SUMS OF CROSS PRODUCTS'/4(1X,F12.5))
WRITE(6,130)
130  FORMAT(1X,'FORMATTED MATRIX OF CORRELATIONS')
DO 160 I=1,M
K = 1
DO 140 J=1,M
    CALL LOC(I,J,IR,M,M,1)
    RSAVE(K) = R(IR)
    K = K + 1
140  CONTINUE
150  WRITE(6,150) (RSAVE(L),L=1,M)
160  FORMAT(12(1X,F12.5))
CONTINUE
STOP
END
SUBROUTINE DATA
RETURN
END

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