Figure 1.40b

```
EFFECT .. WITHIN CELLS REGRESSION

MULTIVARIATE TESTS OF SIGNIFICANCE (S = 2, M = 2, N = 24 1/2)

TEST NAME              VALUE       APPROX. F     HYPOTH. DF       ERROR DF       SIG. OF F

PILLAIS                .55946        2.88501          14.00         104.00            .001
HOTELLINGS            1.05995        3.78553          14.00         100.00            .000
WILKS                  .47077        3.33286          14.00         102.00            .000
ROYS                   .49886

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EIGENVALUES AND CANONICAL CORRELATIONS
ROOT NO.      EIGENVALUE          PCT.      CUM. PCT.    CANON. COR.   SQUARED COR.

       1          .99544      93.91374       93.91374         .70630         .49886
       2          .06451       6.08626      100.00000         .24617         .06060

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

DIMENSION REDUCTION ANALYSIS

ROOTS          WILKS LAMBDA              F      HYPOTH. DF       ERROR DF       SIG. OF F

1 TO 2              .47077        3.33286          14.00         102.00            .000
2 TO 2              .93940         .55565           6.00         105.00            .765

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UNIVARIATE F-TESTS WITH (7,52) D. F.

VARIABLE     SQ. MUL. R        MUL. R    ADJ. R-SQ.     HYPOTH MS       ERROR MS              F    SIG. OF F

SYNTH             .45390         .67372        .38039      11.59727        1.87825        6.17450         .000
EVAL              .36102         .60085        .27500       9.60230        2.28783        4.19712         .001

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

EFFECT .. CONSTANT

MULTIVARIATE TESTS OF SIGNIFICANCE (S = 1, M = 0, N = 24 1/2)

TEST NAME              VALUE       APPROX. F     HYPOTH. DF       ERROR DF       SIG. OF F

PILLAIS                .01764         .45782           2.00          51.00            .635
HOTELLINGS             .01795         .45782           2.00          51.00            .635
WILKS                  .98236         .45782           2.00          51.00            .635
ROYS                   .01764

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EIGENVALUES AND CANONICAL CORRELATIONS

ROOT NO.      EIGENVALUE          PCT.      CUM. PCT.    CANON. COR.

       1          .01795     100.00000      100.00000         .13281

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DIMENSION REDUCTION ANALYSIS

ROOTS          WILKS LAMBDA              F      HYPOTH. DF       ERROR DF       SIG. OF F

1 TO 1              .98236         .45782           2.00          51.00            .635

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

UNIVARIATE F-TESTS WITH (1,52) D. F.

VARIABLE     HYPOTH. SS        ERROR SS     HYPOTH. MS       ERROR MS              F    SIG. OF F

SYNTH            1.13385       97.66914        1.13385        1.87825        .60367         .441
EVAL              .12773      118.96726         .12773        2.28783        .05583         .814
```

2 Estimates of the regression coefficients B and B_0 with their standard errors, t values for testing H_0:β_i=0, and 95% confidence intervals for each β_i. The output in Figure 1.40c was obtained for Figure 1.40a.