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DECUS NO.	8-555
TITLE	MULTC MULTIPLE CORRELATION PROGRAM
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SOURCE LANGUAGE	FORTRAN

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How to run MULTC Multiple Correlation Program

1) .R MULTC (Starting Address is 02504)

2) Type input device (May be 1,2,3, or 4). If data is on magnetic tape, it must reside on unit 1 with the file name 'CORRFI.DA'.

3) Type in heading to appear on output. It may be as long as 72 characters in length.

4) Type in number of variables, including the dependent variable. Maximum is 8.

5) Input data are read in. They must be in the following order: First, the mean and standard deviation for variable 1, the dependent variable. Each appears in a separate record. Then are read in the mean and standard deviation for every other variables, each in a separate record. Next the correlation matrix is read in, each correlation coefficient appearing in a separate record. They appear in the following order: $r_{2,2};r_{2,3};r_{2,4};r_{2,5};\cdots r_{2,n};$ $r_{2,1};r_{3,3};r_{3,4};\cdots r_{3,n};r_{3,1};r_{4,4};r_{4,5}\cdots r_{4,n};r_{4,1}\cdots$ $r_{n,n};r_{n,1}$ where variable 1 is the dependent variable and n is the last variable.

MULTC Multiple Correlation Program

ABSTRACT

This program is based upon Doolittle's method for solving simultaneous equations for the unknown B's. The maximum no. of independent variables is 7.

MINIMUM HARDWARE

PDP-8/I with 8k of core, with teletype, printer and 1 magnetic tape drive or disk.

OTHER PROGRAMS NEEDED

PS/8 Operating System with Fortran Compiler

NOTE:

This program consists of 2 chained segments. The first contains a MAIN program and subroutine COMP, and is named MULTC. The second is named ECOMP. Each must be compiled, loaded, and saved separately on the system device. Specify O option to the loader.