

**A note concerning a suite of behavioral science
applications programs available for
the Burroughs C3661**

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Those familiar with the Burroughs C3661 may realize its value as a programmable calculator in allowing small to medium scale statistical analyses to be performed relatively conveniently.

The present note concerns a suite of behavioral science applications programs written by technical and teaching staff in the School of Psychology at Manchester Polytechnic.

Like most programmable calculators, the C3661 can render its keyboard operations automatic in programmable mode, and thus a "program" in this sense is no more than a string of keyboard operations required to perform the desired task. The C3661 allows for storage of programs on magnetic cards, however, together with a relatively convenient system for the input of programs from card to machine. This being the case, a suite of programs can be stored and used with a minimum of fuss.

The suite consists of 14 programs, including a one-sample and two-sample *t* test (for dependent or

independent data), together with a sample statistics program which can calculate most common statistics (including confidence intervals) on sample data. Simple regression, correlation, and partial correlation are included, as is a program to calculate a power function between two variables. A chi-square program allows for the calculation of expected frequencies from obtained, together with a value for chi square with optional Yates' correction. Cochran's *Q* may be calculated with one program, while another calculates exact probabilities under the sign test. Finally, the analysis of variance is included through two one-way analyses (using dependent or independent data) and a program for a 2 by 2 independent-groups factorial ANOVA.

In all cases, an emphasis has been placed on providing detailed output concerning the analyses performed.

A paper is available containing listings of all the programs involved, together with instructions on their use and details of the analyses performed. An introduction is provided detailing salient machine features. The package may be obtained free by contacting S. A. Robertson at the School of Psychology, Manchester Polytechnic, Gaythorn Annexe, River Street, Manchester, England M15 5FJ.

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