Terminal Talk

Information Technology

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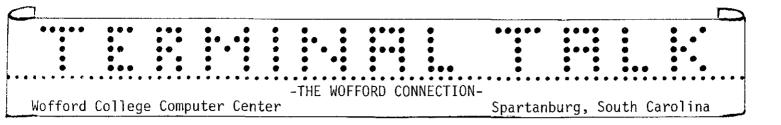# Terminal Talk - The Wofford Connection February 1971

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Quick Statistics.

The new program QUISTA*** has been added to the Quade statistical package in the general library. It is intended for the user with a variety of small statistical problems, each of which occurs only occasionally. It will handle one univariate sample, up to 5 independent samples, or matched samples, and perform such calculations as t-test, correlation, regression, two-way frequency tables, and significance level. More information is on file in the Computer Center (TSL 7.6).

More Statistics.

The Fortran programs TWOSAM*** (TWO SAM/ples) and INDSAM*** (IND/ependent SAM/ples) will provide descriptive statistics and tests of homogeneity for independent samples. The data may either be typed in during execution of the program or read from an external file in standard format. TWOSAM*** will analyze 2 samples of up to 200 observations each. Its output includes the size, mean, standard deviation and variance for each sample as well as statistical comparisons of the two samples. INDSAM*** will analyze 2 to 9 samples having no more than 175 different values in all, but with practically no limit on duplication. Its output includes the following for the combined sample and for each individual sample: sample size, mean, effect, standard deviation, skewness, kurtosis, ridit, and ridit effect. If there are at least 3 samples, INDSAM*** also provides the Kruskal-Wallis and Jonckheere tests based on ranks, and an analysis of variance including a component for linear regression on sample number. Further information is on file in the Computer Center (TSL 6.10).

LISTAP***

This is a FORTRAN program that enables a user to make a paper tape listing of as many files as he wishes. Files are listed on a single tape separated by 20 rub-outs, 40 line-feeds, and 20 more rub-outs. For more complete instructions, list LISTAP***.

<u>Usage Report.</u>

The table below presents a comparison of usage figures for the periods Sept.-Dec. 1969 and Sept.-Dec. 1970. The usage has been categorized as suggested by the required National Science Foundation reports. Each user establishes the appropriate classification as he signs on. Clearly some errors have been made, but the general distribution appears to be correct. During last semester, about 190 students were enrolled in 15 courses which made official use of the Computer Terminal. The average connect time increased about 16% to more than 4.3 hours/day for the full 123 days of the period.

Category	No. of Users 1969	1970	No. of CPU Sec. 1969	1970	No. of Connect Min. 1969	1970
Programming	32	17	8,086	11,410	1,580	4,799
Physical Science and Math	54	75	53,461	62,290	14,336	19,869
Biological Science	10	2	504	15	499	4
Social Science	30	29	25,681	4,269	9,372	2,929
Arts and Humanities	1	1	20	216	41	59
Other Uses	8	17	5,234	17,209	1,915	4,510
Totals	90*	97*	92,986	95,409	27,743	32,170

*<u>different</u> users