

SERIES 200

PROF

Honeywell is introducing a comprehensive education-support capability called PROF — Pupil Registering and Operational Filing. PROF harnesses the power of Honeywell's Series 200 computers to the task of improving the educational environment by providing: 1. computer system designs and programs to alleviate teachers' and administrators' paperwork burdens; 2. automated maintenance and analysis of pupil data for use in academic and career guidance as well as in curriculum planning; and 3. instructional aids for use in teaching students about the expanding world of computer technology. A school which uses these facilities will accrue triple benefits: higher speeds and lower costs for many routine clerical tasks; more useful data for application in administrative and guidance functions; and more available time for teaching and other educational functions. And these benefits are within the reach of most school systems.

Computerization of Administrative and Clerical Tasks

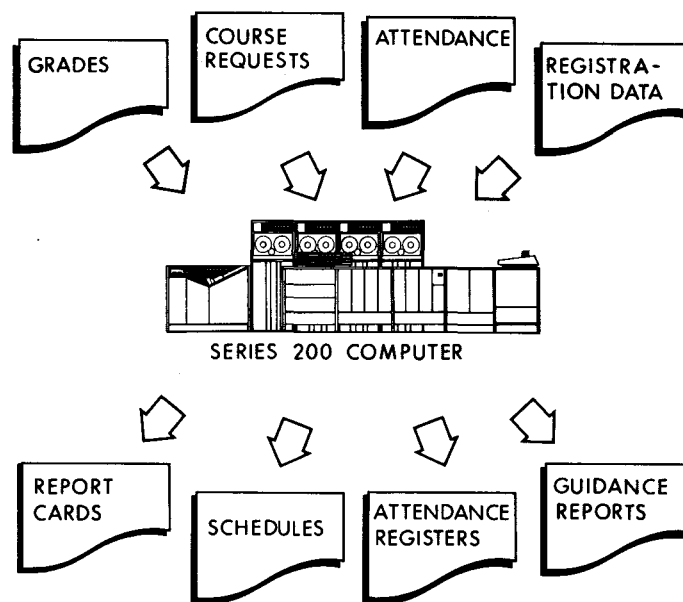
PROF includes system designs and programs for computerized pupil assignment, cumulative pupil-record maintenance, test analysis, attendance recording and reporting, payroll and financial accounting. Automation of these functions will, of course, provide incalculable benefits to administrators, teachers, and guidance personnel. Here, in detail, are some of the functions included in PROF:

PUPIL ASSIGNMENT: PROF's pupil assignment subsystem is a complete yet economical approach to a job which heretofore could only be successfully accomplished on the large, expensive computers found in service bureaus and very large school systems. In PROF, pupil assignment is rendered economical by harnessing, through the use of advanced system techniques, the full power of small-scale Series 200 configurations. PROF's pupil assignment programs also constitute a very effective simulator for testing the effectiveness of course schedules.

ATTENDANCE ACCOUNTING: Included in PROF is detailed documentation of an advanced attendance accounting system incorporating pupil registration, the maintenance of attendance records, course changes, and various accounting chores such as the calculation of average daily and monthly attendance. This documentation defines the complete system and includes operating procedures, forms designs, and file layouts. Implementation of such a system relieves teachers of much of the clerical drudgery associated with these tasks.

Automated Maintenance and Analysis of Pupil Data

PROF contains provisions for the implementation of several pupil-data maintenance and reporting functions. These provisions include detailed documentation of existing systems and programs, where applicable.



GRADE RECORDING: PROF's grade-recording subsystem maintains pupil cumulative records and produces report cards, transcripts, academic lists and guidance reports. The grade-recording subsystem provides pertinent data to counselors, both as requested and automatically as problems are detected.

TEST ANALYSIS: The test analysis subsystem provided for in PROF includes facilities for establishing local standardization norms for tests, as well as for producing reports which relate individual school ratings (percentiles, stanines, grade equivalences, etc.) to local, state, and national norms. Recording of test scores in pupil cumulative records is also included.

EDUCATIONAL RESEARCH: The PROF educational research facility has long-term significance. A permanent student file maintained on tape from the day a student enters the system provides the cumulative raw data necessary to make a variety of statistical studies having important implications in the planning of future curricula. Correlation studies and factor analyses relating factors such as academic achievement and standardized test scores with indices of postgraduate academic and career success can be carried out effectively on Series 200 computers.

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Honeywell

ELECTRONIC DATA PROCESSING

STATISTICAL ANALYSIS PROGRAMS: A group of statistical routines is included as a part of the standard array of software available to all Series 200 users. This package includes operations such as stepwise multiple regression, means random-number generation, chi-square analysis of co-variance, analysis of variance by curve fitting, and standard deviation calculation. These routines will be extremely valuable to schools for the performance of the data analysis tasks included in the aforementioned grade recording, test analysis, and educational research functions.

Instructional Aids

Clearly, the mere **presence** of a modern computer in a public school system constitutes a valuable educational influence and a useful tool applicable in many subject areas. To supplement the obvious utility of a school's Series 200 computer, Honeywell has also produced a number of teaching aids as part of PROF.

WORDCOM: PROF includes a Series 200 implementation of WORDCOM, a simplified programming language, oriented toward an instructional classroom computer, for training beginning students of computer technology. This language is described by its authors in a well-known data processing text, **Automatic Data-Processing Systems**, by R. H. Gregory and Richard L. Van Horn.¹ The teacher using WORDCOM can inject both realism and practical experience into presentations of computer fundamentals — presentations which might otherwise seem dry, abstract, and uninteresting.

PROGRAMMED TEXTS: For use with Series 200 and WORDCOM, Honeywell also produces a comprehensive set of programmed texts dealing with numbering systems, electronic data processing, and programming. Much more meaning and depth can be added to courses in programming when the corresponding hardware and programmed texts are available.

Summary

Honeywell is the first manufacturer to offer secondary schools a truly practical data processing capability — one that allows schools to do, on a low-cost computer, jobs ranging in complexity from simple accounting to complicated pupil assignment. The economical computer models of Honeywell's new Series 200 form the basis of this data processing capability. PROF enables secondary schools to apply the power of Series 200 computers to their specific requirements.

¹Wadsworth Publishing Company, Inc., Belmont, California, 1960, 1963.