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SOFTWARE SURVEY SECTION

Editor's Note: The following Software Descriptions have been submitted by our readers in response to our call for an open exchange of information on software programs. They are offered without review or comment to provide a rapidly published, easily accessible avenue of communication. Other readers with relevant software packages are invited to complete and submit a Software Description Form (found at the end of this section).

Software package EEB-004-S85 ASYST (A Scientific Software System)

Contributor: Mark Schindler, Macmillan Software Company, 866 Third Avenue, New York, NY 10022

Brief description: ASYST is a powerful, interactive software environment designed for scientists and engineers. Created for use with the IBM-PC or XT, its three fully integrated modules allow the user to perform complex mathematical operations rapidly and with a minimum of keyboarding. The system (which is compatible with DT2801, 2805, 2808, and 2818 Series acquisition boards) can interface directly with laboratory instruments to capture data which can then be easily manipulated and analyzed. Full graphics support is provided throughout. Using the Intel 8087 math co-processor, ASYST provides speeds of calculations comparable to languages running on minicomputers, with high precision. Its intuitive syntax simplifies use; commands like XY.DATA.PLOT do what their names suggest. The system is also fully extensible: new commands are easily defined to encompass a series of other commands and operations.

Potential users: Scientists and engineers in various fields.

§ This application program in the area of general science has been developed for IBM-PC, XT, AT and compatibles to run under PC DOS 1.1, 2.0, 2.1 or 3.0. It is available on 5-1/4", dual-sided floppy diskette. Required memory is 320K minimum.
§ Distributed by Macmillan Software Company.
§ The minimum hardware configuration required is IBM color graphics board, 8087 co-processor. No user training is required. There is extensive external documentation. Source code not available.
§ The package is fully operational. It has been in use for approximately 6 months. The contributor is available for user inquiries.

NAME OF JOURNAL ENVIRONMENTAL AND EXPERIMENTAL BOTANY

P E R G A M O N P R E S S
SOFTWARE DESCRIPTION FORM

Title of software package: _____

_____

_____

It Is: [ ]Application program [ ]Utility [ ]Other _____

Specific area _____
(e.g. Thermodynamics, Inventory Control)

Software developed for [name of computer(s)] _____

in [language(s)] _____

to run under [operating system] _____

and is available in the following media:

[ ]Floppy disk/diskette. Specify:

Size _____ Density _____ [ ]Single-sided [ ]Dual-sided

[ ]Magnetic tape. Specify:

Size _____ Density _____ Character set _____

Distributed by: _____

Minimum hardware configuration required: _____

Required memory: _____ User training required: [ ]Yes [ ]No

Documentation: [ ]None [ ]Minimal [ ]Self-documenting
[ ]Extensive external documentation

Source code available: [ ]Yes [ ]No

Level of development: [ ]Design complete [ ]Coding complete
[ ]Fully operational [ ]Collaboration would be welcomed

Is software being used currently? [ ]Yes [ ]No
If yes, how long? _____ If yes, how many sites? _____

Contributor is available for user inquiries: [ ]Yes [ ]No

RETURN COMPLETED FORM TO:

Morton W. Miller
Department of Radiation Biology and Biophysics
The University of Rochester
School of Medicine and Dentistry
Rochester, NY 14642

Description of what software does [200 words]:

Potential users: _____

Fields of interest: _____

# # # # # # #

Name of
contributor: _____

Institution: _____

Address: _____

_____

Telephone number:_____

# # # # # # #

Reference No. [Assigned by Journal Editor]_____

- -

[The information below is not for publication.]

Would you like to have your program:

Reviewed? [ ]Yes [ ]No [ ]Not at this time

Marketed and distributed? [ ]Yes [ ]No [ ]Not at this time