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 CAMWA-008-88 Nonlinear Parameter Estimation

Contributors: J.C. Nash/M. Walker-Smith, University of Ottawa, Nash Information Services, Inc., 1975 Bel Air Dr., Ottawa Ontario K2C 0X1, Canada

Brief description: The program allows for the estimation of nonlinear models under a variety of loss functions. Package includes six parameter estimation methods, one of which is specific to nonlinear least squares. Package includes numerous examples and test files. Documentation is in the form of a complete book in which a PC diskette is included.

Potential users: General scientific.
Fields of interest: Anywhere modelling is used.

$ This application program in the area of data analysis has been developed for IBM PC and compatibles in BASIC to run under MS-DOS and PC-DOS. It is available on 5-1/4", dual-sided, double-density floppy diskette. Required memory is 128K.
$ Distributed by Marcel Dekker, Inc.
$ The minimum hardware configuration required is one drive. No user training is required. There is extensive external documentation. Source code is available.
$ The package is fully operational. It has been in use for approximately 3 years. The contributor is available for user inquiries.
SOFTWARE DESCRIPTION FORM

Title of software program: _______________________________________________________

Type of program: [ ] Application [ ] Utility [ ] Other _______________________

Category: ___________________________ (ie. Psychological assessment, statistics, thermodynamics, etc.)

Developed for (name of computer/s): ____________________________________________
in (language/s): _______________________________________________________________
to run under (operating system): ________________________________________________

available on: [ ] Floppy disk/diskette. Specify:
- Size _________ Density _________ [ ] Single-sided [ ] Dual-sided
- [ ] Magnetic tape. Specify:
- Size _________ Density _________ Character set _______________________

Hardware required: ____________________________________________________________

Memory required: ______________ User training required: [ ] Yes [ ] No

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

Source code available: [ ] Yes [ ] No

Stage of development: [ ] Design complete [ ] Coding complete
- [ ] Fully operational [ ] Collaboration welcomed

Is program in use? [ ] Yes How long? _______ How many sites? _______
- [ ] No

Is the contributor available for user inquiries: [ ] Yes [ ] No

Distributed by: ________________________________________________________________

Cost of program: __________________________

Demonstration disk available? [ ] Yes Cost: ______________
- [ ] No

(continued)

RETURN COMPLETED FORM TO:

Professor Ervin Y. Rodin
Department of Systems Science and Mathematics
Washington University
Box 1040
St. Louis, MO 63130

[This Software Description Form may be photocopied without permission]
Description of what software does [maximum: 200 words]:

Potential users: ____________________________________________

Field/s 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

[This Software Description Form may be photocopied without permission]