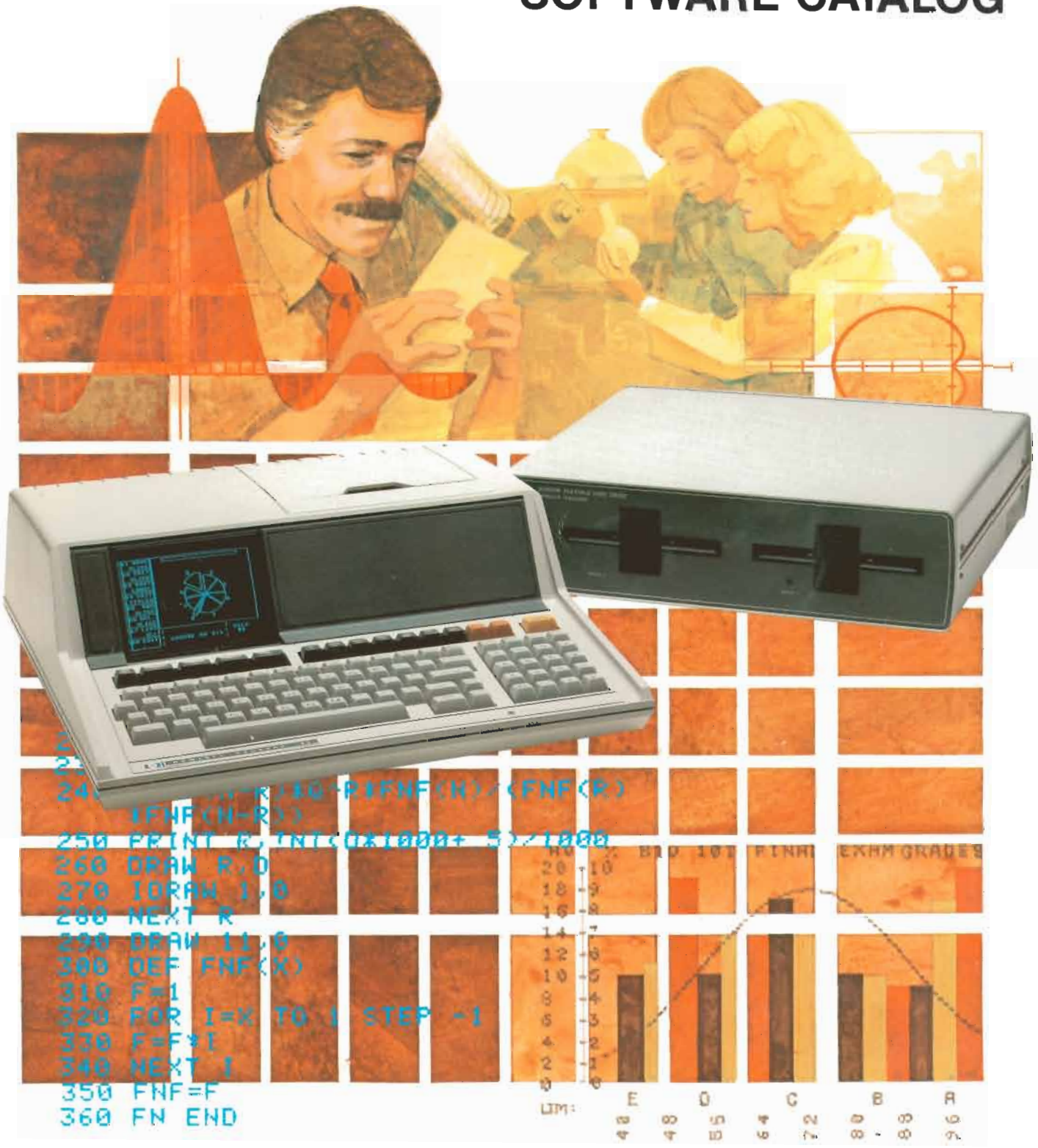
HEWLETT-PACKARD

SERIES 80

SOFTWARE CATALOG



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SERIES

SOFTWARE

Catalog of

Contributed Programs

and

Application Packages

January, 1982

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Introduction

SERIES 80 SOFTWARE CATALOG

January, 1982

INTRODUCTION

The Series 80 Software Catalog is a reference guide to programs currently available for Series 80 Personal Computers. Series 80 users should find this catalog a convenient source for selecting programs from a wide variety of fields and application areas.

The catalog is divided into two sections. The first is comprised of programs contributed by Series 80 Users' Library members and by Hewlett-Packard. These programs provide the user with inexpensive tools to help solve computing problems. The price listed for each program includes documentation and a copy of the program listing. Programs may be purchased recorded on magnetic media for an additional charge. Approximately 30 programs may be recorded on one cartridge or disc, depending on individual program size. Consult the program price list at the end of this section for complete pricing information.

The second section of the catalog is devoted to application packages; programs that provide total software solutions. These packages have been developed both by Hewlett-Packard and by independent Series 80 Software Suppliers. These packages provide a valuable service to users. They contain concise, easy to understand documentation and recorded media. Some are available only on data cartridge, and others may be ordered on either disc or cartridge. A few of the pacs contain both a recorded cartridge and disc.

Whether you are looking for an inexpensive program to solve a specific problem, or want a total software solution, the Series 80 Software Catalog is your guide to finding just the right software to meet your needs.

USING THE CATALOG

The catalog contains the following:

Application Category Index

This index gives a breakdown of subject areas covered by Series 80 Software. Select the category that most appropriately describes the subject area you wish to

investigate. Once the program is located in the index, consult the summary for that particular program for detailed information.

Cross References

This section is a cross-reference of programs from the Hewlett-Packard Application Packages and Users' Library Solution Books and the corresponding Users' Library program numbers. All Solution Book programs may be purchased separately through the Library, but not all Application Pac programs are available individually.

Program Summaries

Each program summary provides a description of the software, the contributor's or supplier's name and address, and the peripherals and/or enhancements needed to run the software. Contributed program summaries indicate the number of bytes consumed by the program.

Program summaries are listed in the Catalog in order of program number (part number for HP Application Pacs). The applicable Series 80 mainframe required is also given.

PROGRAM SUPPORT

User-contributed programs are reviewed by the Library prior to acceptance. At that time a check for completeness and proper documentation is performed. After acceptance into the Library, the responsibility for revising programs rests with the contributor. Programs developed by indepdent Software Suppliers are maintained soley by the Suppliers. Any questions regarding independently developed application packages should be addressed to the Supplier listed on the program summary, or your local Series 80 dealer. Application packages developed by Hewlett-Packard are supported by the company's staff. Hewlett-Packard makes no express or implied warranty with regard to program material purchased from the Users' Library or from independent Software Suppliers.

ORDERING PROGRAMS

Contributed programs may be purchased through a local Series 80 dealer, or directly from the Users' Library. Order forms are available upon request. Complete the form in full and be certain to indicate the type of media desired if

purchasing programs recorded. Include a check, money order, or cashier's check in U.S. dollars only. VISA, Master Card and American Express are also accepted. Foreign customers must attach payment in U.S. dollars to the order form. All customers should include their name, address, and member number. Be sure to order the contributed programs by program number.

The Library fills program requests by photocopying the following standard documentation submitted by the contributor:

a. Program Description I - gives a thorough description of the program, and lists peripherals and ROMS required.
b. Program Description II - provides a sketch of the problem (if applicable) and shows sample problem(s) with solution(s).
c. Program Description III - lists any operating limits or warnings to the program, points to helpful reference sources, and lists and describes the program variables.
d. User Instructions - gives step-by-step instructions to the user on how to run the program.
e. Program Listing - gives step-by-step listing of the program with comments.

Application packages cannot be purchased from the Users' Library. They should be purchased from your local Series 80 dealer. Packages developed by independent Software Suppliers may be purchased either through a dealer or directly from the Supplier.

SUBMITTING CONTRIBUTED PROGRAMS

The Users' Library was established to provide a source of readily available and useful software programs written for the Series 80 Personal Computers. Your programs are a necessary ingredient for insuring the Library's success. Please submit any program you feel will be of value to other members. The program should be tested and proven in practice. Refer to the Contributor's Guide (available from the Library) for program submittal instructions. The forms necessary for complete program documentation are included with the Guide. The Library offers a bonus for accepted programs. The Library also reserves the right to remove any program from the Catalog at any time.

Note to Users' Library members outside the U.S.: All program documentation in the Library is in English. Program contributions will be considered for acceptance only if submitted in English.

INDEPENDENTLY DEVELOPED APPLICATION PACKAGES

A package describing the Series 80 Software Supplier Program is available to prospective suppliers at no charge. Anyone interested in developing application packages for Series 80 Personal Computers should contact the Independently Developed Software organization at the Personal Computer Division of Hewlett-Packard.

KEEP YOUR ADDRESS CURRENT

To insure that you receive all necessary correspondence and future Series 80 Catalogs, always keep us informed of your current address.

OUR ADDRESS

Send inquiries, program submittals, or orders for user-contributed programs to:

HEWLETT-PACKARD
PERSONAL COMPUTER DIVISION
SERIES 80 USERS' LIBRARY
1010 NE CIRCLE BLVD.
CORVALLIS, OR 97330

THANK YOU FOR YOUR SUPPORT OF THE LIBRARY!

SERIES 80 USERS' LIBRARY

Contributed Program Price List

PROGRAMS	PRICE MEMBER	NON-MEMBER
BASIC Program (unless otherwise marked)	$ 6.00	$ 10.00
Binary Program (recording necessary; add media cost)	12.00	15.00
Binary Enhancement Package (contains 22 Binary and one BASIC utility programs)	150.00	150.00
RECORDING MEDIA		
Cartridge	$ 14.00	$ 18.00
5¼" Flexible Disc	6.00	10.00

When ordering programs, assume that up to 30 programs can usually be recorded on one cartridge or disc, depending on program size.

NOTE: Consult individual program summaries for complete information on each program ordered. Some BASIC programs contain data files and must be purchased recorded. Others require Binary programs (available separately) to run properly. If you do not already have the required Binary program, order it when you order the BASIC program.

CUSTOMERS OUTSIDE THE U.S. AND CANADA PLEASE ADD 10% TO ORDER TOTAL FOR POSTAGE AND HANDLING CHARGES. PLEASE SEND PAYMENT IN U.S. DOLLARS ATTACHED TO YOUR PROGRAM ORDER. THIS WILL INSURE THAT YOUR ORDER IS PROCESSED PROMPTLY UPON RECEIPT.

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INDEX OF CONTRIBUTED PROGRAMS

Library Program Number

000 BUSINESS AND FINANCE

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000-0002	Discounted Cash Flow Analysis
000-0003	Depreciation Schedules
000-0004	Simple Interest and Interest Conversions
000-0005	Bonds
000-0006	Notes
000-0007	Break-Even Analysis
000-0008	Odd Days Interest
000-0009	Average Age of Letters
000-0010	Decision Maker
000-0011	Alphabetic Arranging
000-0012	Stock Value and Evaluation Report
000-0013	Bond Price Analysis
000-0014	Warrant Price Calculation
000-0015	Exponential Smoothing as a Stock Guide
000-0016	Stock Incentive Program
000-0017	Bond Switch Analysis
000-0018	Price/Earnings Ratio Calculation
000-0019	Bond Yield Analysis
000-0020	Stock Returns Report
000-0021	Securities Earnings Per Share Growth
000-0022	Present Values--Stream of Cash Flows
000-0023	Securities Portfolio Analysis and Determination
000-0024	Extended Risk Analysis
000-0025	Capital Investment Analysis
000-0026	Discounted Return on Investment and Payback
000-0027	Investment Return (Cash Flow)
000-0028	Efficient Corner Portfolios
000-0029	Proforma Income Statement and Balance Sheet
000-0030	Sales Commision Report

Library Program Number	
000-0031	Financial Ratios
000-0032	Lease Income
000-0033	Make-Buy Decision Analysis
000-0034	Loan Amortization
000-0035	Mortgage Analysis
000-0036	Cost of Equity Capital
000-0037	Depreciation Method Comparison
000-0038	Simple Loan Analysis
000-0039	Income Statement
000-0040	Mortgage Plan Comparison
000-0041	Capital Investment Analysis
000-0042	Exponential Smoothing on Price Data
000-0043	Cash Flow Analysis
000-0044	Compound Interest
000-0045	Lease Analysis as Determined by the Lessee
000-0046	Annuity Analysis
000-0047	M/M/1 Queueing System
000-0048	M/M/S Queueing System
000-0049	Linear or Quadratic Program Problem Solving
000-0050	Shortest Route Using the Method of Dynamic Programming with Successive Approximation in Functional Space
000-0051	Linear Trend Forecasting
000-0052	First Difference, Percent Changes, Percent Difference
000-0053	Critical Path Analysis
000-0054	Network Flow Determination
000-0055	Real Estate Investment Analysis
000-0056	Inventory Gross Profit
000-0057	Runoff Text Formatter
000-0058	Print VisiCalc^{tm} Worksheet to a Plotter with HP-GL
000-0059	Data File to VisiCalc^{tm} /SL File
000-0060	Mortgage Analysis (Version 1.0)
000-0061	Use VisiCalc^{tm} to Accumulate Year-to-Date Data
000-0062	File Composer for DPLOT
000-0063	Calendar Interest
000-0064	Personal Data Management Package

Library Program Number

100 ENGINEERING

100-0001	FCC Distance - Bearing Calculation
100-0002	Gray Code Generator and Inverter
100-0003	Bode Plot of a Transfer Function
100-0004	Passive Solar Simulator (STENET)
100-0005	Low Pass Filter Design
100-0006	Ladder Network Analysis
100-0007	Active Filter Design
100-0008	Frequency Plot of Poles and Zeros in a Complex Plane
100-0009	Passive Filter Design
100-0010	Mixer Spurious Response
100-0011	Microwave Parameter Conversion
100-0012	AC Circuit Analysis
100-0013	Printing or Display in Engineering Units
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100-0016	Special Section Properties
100-0017	Compressive Buckling
100-0018	Section Properties
100-0019	Steel Column Formula
100-0020	Correct Steel Beam Use
100-0021	Solution of Polynomial Equations
100-0022	Two-Dimensional Heat Transfer in a Thin Plate
100-0023	Plane Truss Analysis
100-0024	Vessel Capacity Evaluation
100-0025	Mohr's Circle
100-0026	Polar Function Plotter
100-0027	Interpretation of EE Units
100-0028	Analysis of a Balanced Polyphase Induction Motor
100-0029	Eigenvalues and Eigenvectors of a Real Symmetric Matrix
100-0030	Practice in AC Analysis
100-0031	Practice with Exponential Functions of Time
100-0032	Analysis of Current and Voltage Dividers
100-0033	Algebra of Complex Numbers

Library Program Number	
100-0034	Radio Horizon Calculator
100-0035	Erection Stresses in Vertical Vessels
100-0036	Paraxial Ray Tracing
100-0037	Step or Impulse Response of Transfer Function
100-0038	Modal Analysis for Statically Coupled Linear Oscillators

Library Program Number

200 MATH AND NUMERICAL ANALYSIS

200-0001	Hyperbolic Functions
200-0002	Fast Fourier Transform
200-0003	Fourier Series Coefficients for Unequally Spaced Data Points
200-0004	Fourier Series Coefficients for Equally Spaced Data Points
200-0005	Chebyshev Polynomial
200-0006	Ordinary Differential Equations
200-0007	Integration with Unequally Spaced Data Points
200-0008	Integration with Equally Spaced Data Points
200-0009	Solution to F(X) on an Interval
200-0010	Simultaneous Equations
200-0011	Triangle Solutions
200-0012	Complex Operations
200-0013	Jacobi Method - Matrix Eigenvalue Problem
200-0014	Bessel Functions $J_0(x)$, $J_1(x)$, $J_2(x)$, and jinc(x)
200-0015	Contour Plot
200-0016	Aitkin's Interpolating Polynomial
200-0017	Complex Trigonometric Functions
200-0018	Spherical Triangles
200-0019	Parabolic Equation
200-0020	Area Under a Curve
200-0021	Linear Equations - Gaussian Reduction
200-0022	Polygon Area
200-0023	Bessel Functions
200-0024	Complex Determinant
200-0025	Simultaneous Linear Equations
200-0026	Quadratic Equation
200-0027	Interpolation of Non-Linear Functions
200-0028	Vector Exponentiations
200-0029	General Fast Fourier Transform
200-0030	Real to Complex Fast Fourier Transform
200-0031	Complex to Real Fast Fourier Transform
200-0032	Roots of Polynomials
200-0033	Definite Integral
200-0034	Vector Arithmetic

Library Program Number	
200-0035	Roots or Fixed Points of Non-Linear Functions
200-0036	Solution of First-Order Differential Equations
200-0037	Arithmetic Mean, Median and Standard Deviation
200-0038	Trigonometric Solutions of Triangles
200-0039	Properties of a Straight Line
200-0040	Quadratic Equation Solver
200-0041	Approximating the Derivative Using Secant Slopes
200-0042	Area of a Surface of Revolution
200-0043	Volume of a Solid of Revolution
200-0044	Length of a Curve
200-0045	Area Under a Curve
200-0046	Complex Linear Equations
200-0047	Base Calculator
200-0048	Algebra for Exponentials and Sinusoids
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200-0050	Stereographic Images
200-0051	Ordinary Differential Equations I
200-0052	Circular Segments
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200-0054	Jacobian Elliptic Functions
200-0055	Function Plotter
200-0056	Cubic Equation Solver

Library Program Number

300 PROBABILITY AND STATISTICS

300-0001	Random Sample Generator
300-0002	Least-Squares Fit
300-0003	Probability Distribution Comparisons
300-0004	Probability of Chi-Square Values
300-0005	Expected Value of Perfect Information
300-0006	Chi-Square Test
300-0007	Exact Probability of an F-Ratio with Degrees of Freedom
300-0008	Binomial, Poisson and Hypergeometric Probabilities
300-0009	Fisher's Exact Probability Test
300-0010	Subjective Probability Distribution
300-0011	Analysis of Variance and F-Ratio
300-0012	Kruskal-Wallis One-Way Anova
300-0013	Three Factorial Analysis of Variance
300-0014	Regression/Correlation
300-0015	Analysis of Covariance
300-0016	Basic Statistics
300-0017	Confidence Limits
300-0018	Correlation Coefficient
300-0019	Pooled Mean and Standard Deviation
300-0020	Least Squares Fit, Multiple Y's per X
300-0021	Differences Between Variances
300-0022	Probabilities of Hitting NRA Metallic Silhouettes
300-0023	Step-Wise Regression
300-0024	Simple Regression and Plot
300-0025	Multiple Regression/Correlation
300-0026	Computing an Ergodic Markov Chain
300-0027	Confidence Limits for a Set of Data
300-0028	Random Hits on NRA Metallic Silhouettes
300-0029	Three-Factor Split-Plot Anova (p.qr)
300-0030	Three-Factor Split-Plot Anova (pr.q)
300-0031	One-Way Anova Using Summary Statistics
300-0032	Two-Way Anova Using Summary Statistics
300-0033	CRDAOV: Completely Randomized Design Analysis of Variance

Library Program Number	
300-0034	Comparing All Means With A Control
300-0035	Two-Way Split-Plot Anova
300-0036	One-Way Anova: Unequal Variances
300-0037	Averaging Coefficients of Correlation
300-0038	Percentage Correctly Classified
300-0039	Split-Plot Anova: Least Squares Solution
300-0040	Split-Plot Anova: Unweighted-Means Solution
300-0041	t Test With Unequal Variances (t*)
300-0042	Probability and Statistics
300-0043	Latin Square Anova: n>1
300-0044	Latin Square Anova: n=1

400 LIFE SCIENCES

400-0001	Photosyntesis Experiment

Library Program Number

500 PHYSICAL SCIENCES

500-0001	Spheroid Earth
500-0002	Unit Cell Calculations
500-0003	Young's Double Slit Experiment
500-0004	Lens Problem
500-0005	Snell's Law
500-0006	Photoelectric Effect
500-0007	Optical Absorption Spectra Simulation
500-0008	Propagation of Error
500-0009	Cloud Formation
500-0010	Electronic Configuration
500-0011	Empirical Formulas
500-0012	Projectile Motion
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500-0015	Atomic Weight
500-0016	Sum of Two Waves
500-0017	Avogadro's Number
500-0018	Nuclear Decay
500-0019	Siderial Time and Polaris Position
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500-0021	Magnetic Field Picture
500-0022	Blackbody Radiation Characteristics
500-0023	Interplanetary Trajectories
500-0024	Chromatograph-Data Acquisition
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Library Program Number

600 SOCIAL AND BEHAVIORAL SCIENCES

600-0001 Natural Selection Experiment

700 MEDICAL ARTS AND SCIENCES

700-0001 Data Tablet Graphic Input

Library Program Number

800 HOME COMPUTING/GAMES

800-0001	Blackjack
800-0002	Maze Generator
800-0003	Birthday Plot
800-0004	Game of Life
800-0005	NIM
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800-0007	Hunt the Wumpus
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800-0039	Jump - A Mathematical Game
800-0040	Certificate Craps
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800-0042	Master Mind
800-0043	Budget
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800-0045	Maiden
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Library Program Number

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900-0002	LORAN-C Position Determination
900-0003	Copying Discs to Tapes (Binary)
900-0004	Array Organization and Initialization (Binary)
900-0005	Storing and Retrieving Programs in Standard Interchange Format (Binary)
900-0006	Storing and Retrieving Data in Standard Interchange Format (Binary)
900-0007	Tape Verification and Record Type (Binary)
900-0008	Retrieving HP-9845A Saved Programs (Binary)
900-0009	Converting ROM Statements to Mainframe Statements (Binary)
900-0010	Enhanced String Manipulation (Binary)
900-0011	Statistical Functions on an Array (Binary)
900-0012	Mathematical Functions (Binary)
900-0013	Enhanced BPlot Capabilities (Binary)
900-0014	Audible Beep Control (Binary)
900-0015	Graphics Tablet Display (Binary)
900-0016	Typing Aids (Binary)
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900-0019	Polar and Rectangular Coordinate Conversions (Binary)
900-0020	Enhanced String Input, Immediate-Execute Keys, and Cursor Control (Binary)
900-0021	Sorting Groups of Elements of a String (Binary)
900-0022	Storing and Retrieving Programs as Data (Binary)
900-0023	Enhanced CRT, Cursor, and Keyboard Control (Binary)
900-0024	Programmer Control of the Internal CRT and Keyboard (Binary)
900-0025	Teletype Emulator
900-0026	Moon & Stick People
900-0027	MINDOC: A Word Processor
900-0028	HP-41C Bar Code Generation Program
900-0029	Command File Binary (Binary)
900-0030	Fast Sort of a String Vector

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900-0031	Television Channels US
900-0032	Audio-Visual Synchronizer
900-0033	MULTIP: Marking Multiple Choice Test/Exam Papers
900-0034	Gradebook (+ Histo)
900-0035	Program Expansion Utility
900-0036	Lists BASIC Programs in Expanded Format
900-0037	Variable Name Cross-Reference for BASIC Programs
900-0038	Line Number Cross-Reference for BASIC Programs
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900-0040	HP-83/85 Forth (FIG-Forth Model)
900-0041	String Arrays and Fast String Manipulation without Temporary Memory
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900-0043	Screen-Mode Text Editor
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900-0045	Readability
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000-9007	Real Estate Investment Analysis Pac
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000-9010	System General Ledger - Floppy Disc
000-9011	Accounts Receivable - Floppy Disc
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00085-13015	Financial Decisions Application Pac - French
00085-13038	Graphics Presentations Application Pac
00085-13042	VisiCalc^{tm} PLUS Application Pac

Library Program Number

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100-9002	85/FA-3 Plane Frame and Truss Analysis
100-9003	85/CD-3 Flat Slab Analysis and Design
100-9004	85/SD-1 Steel Beam Design
100-9005	85/SD-2 Steel Column Design
100-9006	85/CD-1 Reinforced Concrete Beam Design
100-9007	Chemical Engineering Pac 1
100-9008	COGO (Coordinate Geometry) System - Tape Cartridge
100-9009	Bluetopping System - Tape Cartridge
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100-9022	Simultaneous Non-Linear Equations
100-9023	SERCAL - A program to Calculate the Size of Electrical Services to Commercial Buildings
100-9024	Multicomponent Distillation
100-9025	Civilsoft
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00085-13033	Math Application Pac - Spanish
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CROSS REFERENCE TO

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4. Shortest Route using the Method of Dynamic Programming with Successive Approximation in Functional Space	000-0050
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6. First Difference, Percent Changes, Percent Difference	000-0052
7. Critical Path Analysis	000-0053
8. Network Flow Determination	000-0054
REAL ESTATE (00085-90341)	
1. Loan Amortization	000-0034
2. Mortgage Analysis	000-0035
3. Capital Investment Analysis	000-0041
4. Mortgage Plan Comparison	000-0042
5. Investment Return	000-0027
6. Discounted Return on Investment and Payback	000-0026
7. Real Estate Investment Analysis	000-0055
8. Cash Flow Analysis	000-0043
9. Annuity Analysis	000-0046

Program Title	Library Program Number
MATH (00085-90342)	
1. Complex Trigonometric Functions	200-0017
2. Spherical Triangles	200-0018
3. Parabolic Equation	200-0019
4. Area Under a Curve	200-0020
5. Linear Equations - Gaussian Reduction	200-0021
6. Polygon Area	200-0022
7. Bessel Functions	200-0023
8. Complex Determinant	200-0024
9. Simultaneous Linear Equations	200-0025
NUMERICAL ANALYSIS (00085-90343)	
1. Quadratic Equation	200-0026
2. Interpolation of Non-Linear Functions	200-0027
3. Vector Exponentiations	200-0028
4. General Fast Fourier Transform	200-0029
5. Real to Complex Fast Fourier Transform	200-0030
6. Complex to Real Fast Fourier Transform	200-0031
7. Roots of Polynomials	200-0032
8. Definite Intergral	200-0033
9. Vector Arithmetic	200-0034
10. Roots or Fixed Points of Non-Linear Functions	200-0035
GENERAL PROBABILITY (00085-90344)	
1. Least Squares Fit	300-0002
2. Probability Distribution Comparisons	300-0003
3. Probability of Chi-Square Values	300-0004
4. Expected Value of Perfect Information	300-0005
5. Chi-Square Test	300-0006
6. Exact Probability of an F-Ratio with Degrees of Freedom	300-0007
7. Binomial, Poisson and Hypergeometric Probabilities	300-0008
8. Fisher's Exact Probability Test	300-0009
9. Subjective Probability Distribution	300-0010

Program Title	Library Program Number
DECISION ANALYSIS (STATISTICS) (00085-90345)	
1. Analysis of Variance and F-Ratio	300-0011
2. Kruskal-Wallis One-Way Anova	300-0012
3. Three Factorial Analysis of Variance	300-0013
4. Regression/Correlation	300-0014
5. Analysis of Covariance	300-0015
6. Basic Statistics	300-0016
7. Confidence Limits	300-0017
8. Correlation Coefficient	300-0018
9. Pooled Mean and Standard Deviation	300-0019
10. Least Square Fit, Multiple Y's per X	300-0020
MATH LEARNING (00085-90346)	
1. Solution of First-Order Differential Equations	200-0036
2. Arithmetic Mean, Median and Standard Deviation	200-0037
3. Trigonometric Solutions of Triangles	200-0038
4. Properties of a Straight Line	200-0039
5. Quadratic Equation Solver	200-0040
6. Approximating the Derivative Using Secant Slopes	200-0041
7. Area of a Surface of Revolution	200-0042
8. Volume of a Solid of Revolution	200-0043
9. Length of a Curve	200-0044
SCIENCE LEARNING I (00085-90347)	
1. Photosynthesis Experiment	400-0001
2. Young's Double Slit Experiment	500-0003
3. Lens Problem	500-0004
4. Snell's Law	500-0005
5. Photoelectric Effect	500-0006
6. Optical Absorption Spectra Simulation	500-0007
7. Propagation of Error	500-0008
8. Natural Selection Experiment	600-0001
9. Cloud Formation	500-0009

Program Title	Library Program Number
GAMES (00085-90350)	
1. Qubic	800-0018
2. Biorhythm Comparison	800-0019
3. Pro Football	800-0020
4. Radioactive Decay Game	800-0021
5. Hunt the Hurkle	800-0022
6. Bagels	800-0023
7. Roulette	800-0024
8. Stock Market Game	800-0025
9. Championship Golf	800-0028
ELECTRICAL ENGINEERING (00085-90351)	
1. Low Pass Filter Design	100-0005
2. Ladder Network Analysis	100-0006
3. Active Filter Design	100-0007
4. Frequency Plot of Poles and Zeros in a Complex Plane	100-0008
5. Passive Filter Design	100-0009
6. Mixer Spurious Response	100-0010
7. Microwave Parameter Conversion	100-0011
8. AC Circuit Analysis (requires MATRIX ROM)	100-0012
SCIENCE LEARNING II (00085-90363)	
1. Electronic Configuration	500-0010
2. Empirical Formulas	500-0011
3. Projectile Motion	500-0012
4. Instantaneous Velocity	500-0013
5. Einstein Distortions	500-0014
6. Atomic Weight	500-0015
7. Sum of Two Waves	500-0016
8. Avogadro's Number	500-0017
9. Nuclear Decay	500-0018

Program Title	Library Program Number
ELECTRICAL ENGINEERING LEARNING (00085-90352)	
1. Polar Function Plotter	100-0026
2. Interpretation of EE Units	100-0027
3. Analysis of a Balanced Polyphase Induction Motor	100-0028
4. Eigenvalues and Eigenvectors of a Real Symmetric Matrix	100-0029
5. Practice in AC Analysis	100-0030
6. Practice in Exponential Functions of Time	100-0031
7. Analysis of Current and Voltage Dividers	100-0032
8. Algebra of Complex Numbers	100-0033

CROSS REFERENCE TO

HP SERIES 80 APPLICATION PAC PROGRAMS

Program Title	Library Program Number
BUSINESS AND FINANCE	
1. Compound Interest and Loan Amortization	000-0001
2. Discounted Cash Flow Analysis	000-0002
3. Depreciation	000-0003
4. Simple Interest and Interest Conversions	000-0004
5. Bonds	000-0005
6. Notes	000-0006
7. Break-Even Analysis	000-0007
8. Odd Days Interest	000-0008
MATH AND NUMERICAL ANALYSIS	
1. Simultaneous Equations	200-0010
2. Solution to f(x)=0 on an Interval	200-0009
3. Integration with Equally Spaced Data Points	200-0008
4. Integration with Unequally Spaced Data Points	200-0007
5. Ordinary Differential Equations	200-0006
6. Chebyshev Polynomial	200-0005
7. Fourier Series Coefficients for Equally Spaced Points	200-0004
8. Fourier Series Coefficients for Unequally Spaced Points	200-0003
9. Fast Fourier Transform	200-0002
10. Hyperbolics	200-0001
11. Complex Operations	200-0012
12. Triangle Solutions	200-0011

Program Title	Library Program Number
GAMES	
1. Blackjack	800-0001
2. Slot Machine	N/A *
3. Poker Solitaire	800-0017
4. Reversi	800-0016
5. Gomoku	800-0015
6. Cribbage	800-0014
7. Wari	800-0013
8. Sea Skirmish	N/A *
9. Blockade	800-0012
10. Race Track	800-0011
11. Lander	800-0010
12. Race	800-0009
13. Hangman	800-0008
14. Hunt the Wumpus	800-0007
15. King	800-0006
16. Nim	800-0005
17. Maze Generator	800-0002
18. Game of Life	800-0004
19. Birthday Plot	800-0003
GAMES II	
1. Asteroids	800-0035

N/A * = Not available as individual program

SERIES 80 SOLUTION BOOKS

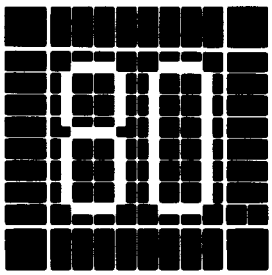
STOCKS AND BONDS	00085-90336
SECURITIES AND INVESTMENT ANALYSIS	00085-90337
BUDGETING AND FINANCE I	00085-90338
BUDGETING AND FINANCE II	00085-90339
MANAGEMENT SCIENCE	00085-90340
REAL ESTATE	00085-90341
MATH	00085-90342
NUMERICAL ANALYSIS	00085-90343
GENERAL PROBABILITY	00085-90344
DECISION ANALYSIS (STATISTICS)	00085-90345
MATH LEARNING	00085-90346
SCIENCE LEARNING I	00085-90347
SCIENCE LEARNING II	00085-90363
ELECTRICAL ENGINEERING	00085-90351
ELECTRICAL ENGINEERING LEARNING	00085-90352
GAMES	00085-90350

PRICE - $10.00 EACH

Solutions Books should be ordered through your Series 80 Dealer or local HP Sales Office.

CONTRIBUTED PROGRAMS

SERIES



SOFTWARE

000 Business / Finance

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0001

Software Title: Compound Interest and Loan Amortization

Mainframe(s): HP-83 & HP-85

Software Description:

Solves for any of the five standard compound interest variables: n, i, PMT, PV and FV; with either 3 or 4 knowns. Payments may be either ordinary annuity (END payment) or annuity due (BEGIN payment). Generates loan amortization schedules. Calculates the principal and interest portion of each periodic payment, and the remaining balance after payment has been made. Options include summarizing accumulated principal and interest, and either BEGIN or END payment.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,906

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0002

Software Title: Discounted Cash Flow Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates Internal Rate of Return (IRR), Net Present Value (NPV) and Financial Management Rate of Return (FMRR) for a series of up to 100 unequal cash flows or up to 100 groups of 999 equal cash flows. Performs a scan routine to insure feasibility of the IRR calcualtion and to determine if there are multiple IRR values.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 14,011

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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Contact your dealer or Hewlett-Packard.

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0003

Software Title: Depreciation Schedules

Mainframe(s): HP-83 & HP-85

Software Description:

Generates annual schedules for Straight Line, Sum-of-the-Years' Digits, and variable rate Declining Balance methods. Allows for partial first-year depreciation. Declining Balance method includes crossover to Straight Line depreciation if desired. Presents a graphical representation of the solution for all three depreciation methods.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,059

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0004

Software Title: Simple Interest and Interest Conversions

Mainframe(s): HP-83 & HP-85

Software Description:

Solves for any of the four standard simple interest variables: Principal, accrued interest, annual interest rate and days interest accrued.

Converts nominal to effective interest rate, and vice-versa, for periodic and continuous compounding.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,777

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0005

Software Title: Bonds

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates price or yield for securities paying interest (coupons) periodically. Options include before or after tax, semi-annual or annual coupon, redemption at maturity or call and 360-day or 365-day calendar year.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 9,536

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0006

Software Title: Notes

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates price, yield or coupon equivalent yield for securities which pay interest at maturity or as a result of discounting the purchase price.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,447

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0007

Software Title: Break-Even Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Solves for any of the five break-even analysis variables: sales revenue per unit, variable costs per unit, fixed costs, units sold, gross profit. Calculates degree of operating leverage for any sales volume. Presents a graphical representation of the solution.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,950

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0008

Software Title: Odd Days Interest

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates Annual Percentage Rate (APR) and payment amounts for a single advance, regular payment transaction which may include any combination of an odd first period, odd first payment or odd last payment. Generates loan amortization schedules.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,200

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0009

Software Title: Average Age of Letters

Mainframe(s): HP-83 & HP-85

Software Description:

This program gives you the average age of a group of letters. You can base the average age on the number of calendar days, the number of weekdays or the number of working days between dates. It also tells you how many days between dates for each letter. The working days average takes 10 holidays in 1980 into consideration.

Contributors Name: Margaret Watson
Address: 1425 NW Terrace Green Place
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,938

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0010

Software Title: Decision Maker

Mainframe(s): HP-83 & HP-85

Software Description:

This program will return items and factors in order of highest rating, according to inputted data. Items are each rated for certain factors (user-inputted), then sorted and listed in order of best to worst. Then each factor is listed with the highest rated item.

Contributors Name: Dan Veeneman
Address: Marcal Systems
4 Crystal Street
Cary, IL 60013

Price: $6.00
Number of bytes 9,682

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0011

Software Title: Alphabetic Arranging

Mainframe(s): HP-83 & HP-85

Software Description:

This program will re-arrange and print-out words or sentences in alphabetical order. You have the choice of arranging by first letter only, or also by the second letter. It's usefulness lies in the fact that the HP-83 & HP-85 does not handle string arrays.

Contributors Name: Michael H. Pelosi, Jr
Address: Airo Clean Engineering Inc.
500 Abbott Drive
Broomall, PA 19008

Price: $6.00
Number of bytes 8,000

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0012

Software Title: Stock Value and Evaluation Report

Mainframe(s): HP-83 & HP-85

Software Description:

This program determines whether a stock should be invested in and provides a list of the stock's value and price for each period. The investment potential is determined by its growth rate over a period of years before the growth rate slows to 5%. Before this long term growth rate is reached there will be a period of abnormal growth which produces high investment potential.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,115

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0013

Software Title: Bond Price Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the price and accrued interest for a bond, given its coupon, yield, settlement date, and maturity date. The maturity price of the bond is fixed at $1000.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,829

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0014

Software Title: Warrant Price Calculation

Mainframe(s): HP-83 & HP-85

Software Description:

Computes 'NORMAL' warrant price given the common stock and exercise prices, the number of shares per warrant, the previous years high and low prices, the months remaining before warrant expiration, the current stock yield, and the number of options and common shares outstanding.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,480

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0015

Software Title: Exponential Smoothing as a Stock Guide

Mainframe(s): HP-83 & HP-85

Software Description:

STKSMO uses exponential smoothing on past price data to provide a guide for timing buy/sell orders of a given stock.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,251

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0016

Software Title: Stock Incentive Program

Mainframe(s): HP-83 & HP-85

Software Description:

This program prints a table of stock incentive estimates for the merging of two companies.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,502

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0017

Software Title: Bond Switch Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the effect of a bond switch, and provides a sensitivity analysis on various input.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,488

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0018

Software Title: Price/Earnings Ratio Calculation

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates theoretical P/E ratio for a given firm.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,255

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0019

Software Title: Bond Yield Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes after-tax yield to maturity of a bond, given its coupon, redemption price, maturity life, price, and the tax rates applied to interest and capital gains.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,552

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0020

Software Title: Stock Returns Report

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes returns for a stock investment. It produces an average return for a purchase at the beginning of a year, selling at each of the following years' ends, and an average return for all holding periods. It also produces an average return, standard deviation and coefficient of variance for different length holding periods.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,194

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0021

Software Title: Securities Earnings Per Share Growth

Mainframe(s): HP-83 & HP-85

Software Description:

Finds the number of years of constant growth in earnings per share required to justify the current price of a stock. It also provides the present values of the dividends and terminal share price for one less year of growth.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,455

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0022

Software Title: Present Value--Stream of Cash Flows

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the present value of a stream of cash flows. The assumption is made that the flows occur at the end of each of the periods after the initial period the investment is made. Each period is defined as one year unless the cost of capital percentages and number of periods are adjusted accordingly. This program will calculate all rates of return between zero and one hundred percent which equate the present value to the initial investment.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,530

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0023

Software Title: Securities Portfolio Analysis and Determination

Mainframe(s): HP-83 & HP-85

Software Description:

Traces the relationship between minimum non-market risk and market sensitivity for portfolios composed from a set of stocks. A portfolio is found which gives the minimum amount of non-market risk for a given level of sensitivity.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,503

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0024

Software Title: Extended Risk Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Performs an extended risk analysis determining the advantages or disadvantages involved in making certain financial investments. The analysis is dependent on a number of estimates. The output is in the form of average cash flows per future period, the expected payback period, the expected rate of return, and the probability of various rates of return.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,099

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0025

Software Title: Capital Investment Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Prints the gross cash flow, annual depreciation, annual tax, net cash flow and discounted cash flow for a long term capital investment.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,519

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0026

Software Title: Discounted Return on Investment and Payback

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the discounted return on investment and payback. From initial investment and cash flow information, depreciation, taxable income, taxes and cash flow after taxes are predicted. Three depreciation methods can be used for the calculations.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,173

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0027

Software Title: Investment Return (Cash Flow)

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates internal rates of return and present values for sets of cash inflows and outflows over a given period of time.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,930

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0028

Software Title: Efficient Corner Portfolios

Mainframe(s): HP-83 & HP-85

Software Description:

Finds the set of 'efficient' corner portfolios from a given set or securities. The amount invested in each security must lie within specific bounds.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,731

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0029

Software Title: Proforma Income Statement and Balance Sheet

Mainframe(s): HP-83 & HP-85

Software Description:

Provides a listing of a simple proforma income statement and balance sheet.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,937

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0030

Software Title: Sales Commission Report

Mainframe(s): HP-83 & HP-85

Software Description:

SALES will compute a monthly planning table for a salesperson, with their base salary, incentive dollars, and prospective billing totals.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,653

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0031

Software Title: Financial Ratios

Mainframe(s): HP-83 & HP-85

Software Description:

This program uses income statement and balance sheet data to compute various financial ratios.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,840

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0032

Software Title: Lease Income

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates annual lease income from (U) units at sales price (S) leased at lease rate (R) for lease period (L). It also sums the total income by year over (Y) years of lease operation.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,377

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0033

Software Title: Make-Buy Decision Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the present value of the cost saving incurred by making a product as opposed to buying it. It also prints a cash flow summary for each method for each year involved.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,483

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0034

Software Title: Loan Amortization

Mainframe(s): HP-83 & HP-85

Software Description:

This program amortizes a loan using arbitrary monthly payments entered by the user. Monthly reports are generated indicating payments to interest and principal and the remaining balance. Final payment is computed when balance falls below user-set maximum monthly payment.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,613

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0035

Software Title: Mortgage Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

MORGAG will find the missing parameter of the following four, given the remaining three: interest rate, life (years), amount borrowed, and monthly payment. The program will then print a monthly or yearly summary indicating the amount of interest, amount of payment and outstanding balance for each period.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,357

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0036

Software Title: Cost of Equity Capital

Mainframe(s): HP-83 & HP-85

Software Description:

EQUITY computes the cost of equity capital by computing the dividends and the share price for future periods, and finds the discount rate by equating the present value of the stream to the current share price.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,040

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0037

Software Title: Depreciation Method Comparison

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes and prints the monthly depreciation of a given investment by four methods: straight line, double declining balance, sum of the years digits, and 150% declining balance.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,764

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0038

Software Title: Simple Loan Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

LENDER calculates the monthly interest charges and outstanding balance of a loan that must be paid off in one year or less.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,313

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0039

Software Title: Income Statement

Mainframe(s): HP-83 & HP-85

Software Description:

INSTMT prints a simple income statement and allows a sensitivity check on various input parameters.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,170

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0040

Software Title: Mortgage Plan Comparison

Mainframe(s): HP-83 & HP-85

Software Description:

MCOST permits the user to easily compare and evaluate up to 1000 mortgage payment plans simultaneously. The program computes monthly mortgage payments for various principal amount at different interest rates over varying periods.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,144

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0041

Software Title: Capital Investment Analysis (Discounted Cash Flow Analysis)

Mainframe(s): HP-83 & HP-85

Software Description:

CAPDCF evaluates capital investment alternatives. Cash flows are determined and the rate of return is calculated using discounted cash flow analysis. An iterative technique is used to determine the rate of return rather than the trial and error technique.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,841

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0042

Software Title: Exponential Smoothing on Price Data

Mainframe(s): HP-83 & HP-85

Software Description:

EXSM00 uses exponential smoothing to forecast data which is thought to have a trend and/or seasonal effect. Output is provided per period as a comparison between different methods of smoothing.

Contributors Name: Hewlett-Packard
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,569

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0043

Software Title: Cash Flow Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

CFLOW calculates:
1) Present value of up to four cash flows for a given cost of capital.
2) Implicit rate of return which equates the present value of the cash flow to zero.
3) Period in which payback occurs if applicable.

Contributors Name: Hewlett-Packard
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,245

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0044

Software Title: Compound Interest

Mainframe(s): HP-83 & HP-85

Software Description:

SAVING calculates the amount of money that would accumulate after N years at an annual interest rate.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 792

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0045

Software Title: Lease Analysis as Determined by the Lessee

Mainframe(s): HP-83 & HP-85

Software Description:

LESSEE compares the advantages of leasing vs. purchasing equipment. Investment tax credit is considered and a cash flow table is available.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,227

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0046

Software Title: Annuity Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs the calculations necessary for determining both payment and withdrawal annuities.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,171

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0047

Software Title: M/M/1 Queueing System

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates all the necessary information for a queueing system with a single server, poisson input and exponential service times.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,997

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0048

Software Title: M/M/S Queueing System

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates all the necessary information for a queueing system with a 'S' servers, poisson input and exponential service times.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,770

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0049

Software Title: Linear or Quadratic Program Problem Solving

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves either a linear or quadratic programming problem. It will maximize or minimize the terms of a system of equations.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,838

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0050

Software Title: Shortest Route Using the Method of Dynamic Programming with Successive Approximation in Functional Space

Mainframe(s): HP-83 & HP-85

Software Description:

In an 'N' node network, this program will find a path to node 1 to N such that the total cost (or distance) is minimized.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,228

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0051

Software Title: Linear Trend Forecasting

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a simple linear trend forecast with seasonal adjustments for monthly data.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,329

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0052

Software Title: First Difference, Percent Changes, Percent Difference

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the following for up to 1000 time periods:

1) First Differences
2) Percent Differences
3) Percent Changes
4) a. Average changes
   b. Variance
   c. Standard deviation
   d. Durbin-Watson statistic

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,386

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0053

Software Title: Critical Path Analysis

Mainframe(s):

Software Description:

This program will perform a critical path analysis on any complex project capable of being represented as a network of individual tasks. As a practical matter, the number of tasks should not exceed 45. After data is entered, individual links between tasks can have their time edited and a new analysis run.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,671

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0054

Software Title: Network Flow Determination

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds the minimum or maximum cost feasible flow through a network. The network is made up of nodes and arcs. Each arc runs from one node to another and can handle flows within a specific range. Each unit of flow along a given arc has an associated cost. The total flow into a node must equal the total flow out of the node. The program will find a set of flows that meets all the demands and either minimizes or maximizes total cost.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,204

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0055

Software Title: Real Estate Investment Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the critical financial information for a real estate purchase. This information can be used in determining the suitability of a rental property investment, or in a rent vs. buy decision.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,389

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0056

Software Title: Inventory Gross Profit

Mainframe(s): HP-83 & HP-85

Software Description:

Designed for a Baskin-Robbins 31 Flavors Ice Cream Franchise, this program determines total inventory, and converts, with gross sales, to gross profit on ice cream.

Contributors Name: J. Michael Herndon
Address: Baskin-Robbins Ice Cream
Box 6146
Tahoe City, CA 95730

Price: $6.00
Number of bytes 2,406

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0057

Software Title: Runoff Text Formatter

Mainframe(s): HP-83 & HP-85

Software Description:

After text is entered into a file using the HP-85 Text Editor, this program will format the text and print it on an external printer. Special commands embedded in the text by the user direct the formatting activities. Provides an easy means of updating documents and letters without retyping.

Contributors Name: Jim Andreas
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 18,433

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: PLOTTER/PRINTER

Memory Options: 16K RAM

Peripherals: External Printer

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0058

Software Title: Print VisiCalc ™ Worksheet to a Plotter with HP-GL

Mainframe(s): HP-83 & HP-85

Software Description:

This "program" consists of a set of instructions which explain how to use the VisiCalc™ /P Print command and HP's Graphics Language (HP-GL) to print your VisiCalc™ worksheet directly to an HPplotter.

Contributors Name: Peter Bock
Address: Hewlett-Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer

Memory Options: 82903A Memory Module

Peripherals: HP-IB, HP-7225 or HP-9872 Plotter

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0059

Software Title: Data File to VisiCalc™ /SL File

Mainframe(s): HP-83 & HP-85

Software Description:

This program allows you to take string or simple numeric data from an HP-83/85 data file and create a VisiCalc™ /SL file. The program will not accept numeric array data. Maximum acceptable length of a string is 90 characters. Requires the LINPUT binary program from VisiCalc™PLUS.

Contributors Name: Peter Bock
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,808

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: 82903A 16K Memory Module

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0060

Software Title: Mortgage Analysis (Version 1.0)

Mainframe(s): HP-83 & HP-85

Software Description:

MORTAN was designed to provide a printed monthly or annualized amortization schedule for a mortgage loan for use by a real estate agent or an investor or homeowner. It can handle a "balloon" payment at the end. An external printer capable of at least 80 characters per line is required.

This program is priced at $12.00 due to the extensive amount of documentation required.

Contributors Name: Charles L. Pack
Address: 25303 La Loma Drive
Los Altos Hills, CA 94022

Price: $12.00
Number of bytes 13,015

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer

Memory Options:

Peripherals: External Printer

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0061

Software Title: Use VisiCalc™ to Accumulate Year-To-Date Data

Mainframe(s): HP-83 & HP-85

Software Description:

This "program" consists of a set of step-by-step instructions for creating VisiCalc™ worksheets to hold monthly data and year-to-date (YTD) totals. The technique avoids the problem of ERROR generation, which worksheets with self-referencing cells (e.g. cell B1 contains the expression +A1+B1) experience after storage and reload. A sample problem is included.

Contributors Name: Peter Bock
Address: Hewlett-Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85
ROMs:

Memory Options: 82903A 16K Memory Module
Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0062

Software Title: File Composer for DPLOT

Mainframe(s): HP-83 & HP-85

Software Description:

This program accepts any two /PD files as output from VisiCalc™PLUS and transforms them into a single X-Y file that is recognizable by the Standard Pac DPLOT program. Great utility is provided by VisiCalc™ in defining multiple relationships by input, trial and error, or equations. These can then be displayed using the DPLOT routing and the HP-85's own graphics capabilities, without programming.

Contributors Name: Bruce McCoy
Address: Dataproducts New England
50 Barnes Park North
Wallingford, CT 06492

Price: $6.00
Number of bytes 4,481

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85
ROMs:

Memory Options: 82903A 16K Memory Module
Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0063

Software Title: Calendar Interest

Mainframe(s): HP-83 & HP-85

Software Description:

Financial institutions may charge interest by methods that differ from direct reduction loans. "Calendar Interest" is designed for notes managed on a daily basis. It has an internal calendar and computes simple or compound interest for any length period. An automatic feature simplifies recording and recalling data. The operator need only enter file name and payment date to print a statement and file the results.

Contributors Name: J. Finley Meehan
Address: 403 Manor Drive
Kerrville, TX 78028

Price: $6.00
Number of bytes 8,267

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 000-0064

Software Title: Personal Data Management Package

Mainframe(s): HP-83 & HP-85

Software Description:

This package is designed to assist the user in manipulating small amounts of data in a friendly fashion. Using three programs called "Create", "Access", and "Report" the user can define his data file, enter and update information in the file, and generate printed reports from that file.

This program requires the FORMSB Binary Program (catalog no. 900-0023) to run.

Note: Because this program contains data files, it must be purchased recorded.

Contributors Name: Jim Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $12.00*
Number of bytes _____

*This program must be purchased recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Printer/Plotter ROM, Mass Storage ROM
Advanced Programming ROM

Memory Options: 16K Memory Module

Peripherals: Disc Drive (dual drive not required)
External Printer (desireable but not require

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100 Engineering

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0001

Software Title: Calculate Distance and Bearing of Two Geographic Points

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the distance and bearing between two locations given the latitude and longitude. Based on FCC formulas and data suitable for use in the contiguous U.S., this program saves a great deal of time not having to piece maps together.

Contributors Name: Stanley S. Nelson
Address: Transwestern Pipeline Company
P. O. Box 2018
Roswell, NM 88201

Price: $6.00
Number of bytes 6,425

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0002

Software Title: Gray Code Generator and Inverter

Mainframe(s): HP-83 & HP-85

Software Description:

This program tabulates the conversion for Binary to Gray Code or the inverse, Gray Code to Binary, as selected by the user. The table goes from zero to a maximum selected by the user using the appropriate number of bits.

Contributors Name: George F. Schrader
Address: Perkin-Elmer Memory Products Division
7301 Orangewood Avenue, M/S 334
Garden Grove, CA 92641

Price: $6.00
Number of bytes 1,185

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0003

Software Title: Bode Plot of a Transfer Function

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes and prints out Bode plot information (Gain and Phase vs. Frequency) over a range of specified frequencies for a transfer function arranged in either polynomial or factored (pole-zero) format. Up to 10th order polynomials or up to 10 lead-lags with up to 10 quadratic lead or lag terms.

Contributors Name: D. H. Peters
Address: Perkin-Elmer Memory Products Division
7301 Orangewood Avenue, M/S 334
Garden Grove, CA 92641

Price: $6.00
Number of bytes 5,773

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0004

Software Title: Passive Solar Simulator (STENET)

Mainframe(s): HP-83 & HP-85

Software Description:

This program emulates the popular "TEANET" calculator program for hourly temperature simulations of passive solar buildings. Extensions have been provided for speed, accuracy and ease of use. Users not familiar with TEANET or similar thermal network techniques should obtain a TEANET users manual. A sample problem and references are included.

Contributors Name: Peter Mullineaux
Address: Solar Pathways Associates
3710 Highway 82
Glenwood Springs, CO 81601

Price: $6.00
Number of bytes 13,802

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0005

Software Title: Low Pass Filter Design

Mainframe(s): HP-83 & HP-85

Software Description:

Uses constant K prototype T section and M derived termination L section to design low pass filters. The program will give high attenuation at specified frequencies in the stop bank by adding up to nine additional M derived T sections.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,096

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0006

Software Title: Ladder Network Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Analyzes circuits with a "ladder" topology (alternating series and shunt elements). The circuit can be made of R, L, C networks and lossless transmission lines. The size of the circuit is not restricted, only the topology.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,969

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0007

Software Title: Active Filter Design

Mainframe(s): HP-83 & HP-85

Software Description:

Designs Butterworth or Chebyshev filters with roll-offs of 12, 24, or 36 db per octave (48 for Butterworth). Values of components are listed and a schematic is drawn.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,528

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0008

Software Title: Frequency Plot of Poles and Zeros in a Complex Plane

Mainframe(s): HP-83 & HP-85

Software Description:

Lists and plots the frequency response of the poles and zeros in the complex plane. The poles and zeros may be that of a transfer, driving point or system function. The plot routine scales the gain and phase for an optimum plot.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,201

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0009

Software Title: Passive Filter Design

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the element values in henries and farads for matched Butterworth or Chebyshev filters. It will operate for low pass, high pass, or Cohn structure band pass.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,286

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0010

Software Title: Mixer Spurious Response

Mainframe(s): HP-83 & HP-85

Software Description:

Aids in the identification and source of residual responses. The program applies the general equation for mixing to each converter and calculates the frequency of the spurious response. In addition, the harmonic numbers and frequencies involved are printed so that filter requirements can be determined.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,791

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0011

Software Title: Microwave Parameter Conversion

Mainframe(s): HP-83 & HP-85

Software Description:

A set of several short programs for converting microwave parameters. Conversions include signal separation, theoretical noise level and Smithchart.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,759

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0012

Software Title: AC Circuit Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Computes node voltages by inverting an admittance matrix created from a nodal description of an electronic circuit. Circuit elements allowed include resistors, inductors, transformers, independent current sources, and voltage current sources.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,088

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0013

Software Title: Printing or Display in Engineering Units

Mainframe(s): HP-83 & HP-85

Software Description:

Program allows the display or printing of numbers with a wide range of exponents in the normal engineering units of: p=pico, n=nano, ... M=meg, G=giga plus the appropriate symbol for the units involved: F=Farad, etc.

Contributors Name: Malcolm McWhorter
Address: Stanford University
ERL 102
Stanford, CA 94305

Price: $6.00
Number of bytes 560

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0014

Software Title: Reinforced Concrete Beams

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides an interchangeable solution between the variables for rectangular, reinforced concrete beams, using the strength design method of American Concrete Institute Code (ACI 318-71).

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,531

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0015

Software Title: Stress in Thick-Walled Cylinders

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the radial and tangential components of normal stress in thick-walled cylindrical vessels.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,906

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0016

Software Title: Special Section Properties

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides an interchangeable solution between the section dimensions and the principal moment of inertia about the X-axis for rectangles, triangles, circles, ellipses and concentric circles. It also computes the principal moment about the Y-axis, and the area.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,153

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0017

Software Title: Compressive Buckling

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs an interchangeable solution between slender compression members or columns: P_{cr}, the critical buckling load; E, the modulous of elasticity; I, the minimum moment of inertia; and L, the length of the member.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,709

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0018 ✓

Software Title: Section Properties

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates specific information about sections given the sections coordinate points. Centroid, and moments of inertia about the centroid, original, principal and user-defined arbitrary axis can be computed. Sections consist of polygons, with deleted polygons or circles located entirely in the first quadrant.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,951

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0019

Software Title: Steel Column Formula

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the allowable load and maximum load for structural steel columns using the AISC formula (1961). The column ends must be welded, riveted or otherwise restrained against deflection or rotation.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,955

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0020

Software Title: Correct Steel Beam Use

Mainframe(s): HP-83 & HP-85

Software Description:

This program will recommend the correct steel beam to use for a number of common applications.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,270

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0021

Software Title: Solution of Polynomial Equations

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves polynomial equations by the root locus method.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,544

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0022

Software Title: Two-Dimensional Heat Transfer in a Thin Plate

Mainframe(s): HP-83 & HP-85

Software Description:

This program is designed to determine the temperature at each segment in a flat plate (a two-dimensional array is used) where there is given:

a. Heat input for each segment (BTU/hr thermal energy)
b. Thermal resistance in the plate between each segment ((°F-hr)/BTU)
c. Temperature on one side of the plate such as outdoor temperature (°F)
d. Thermal resistance from each segment to the outdoor temperature ((°F-hr)/BTU)
e. Temperature on the other side of the plate such as indoor temperature (°F)
f. Thermal resistance from each segment to the indoor temperature ((°F-hr)/BTU)
g. Thermal resistance from the edge segments to a temperature adjacent to the plate and assumed to be the average of the indoor and outdoor temperature ((°F-hr)/BTU)

Program output will be the steady state temperature distribution of the plate at each segment.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,699

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0023

Software Title: Plane Truss Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

The program will analyze plane trusses using the direct stiffness method. Program capacity is 20 joints and 46 members. Up to 10 reaction components are allowed. Joint coordinates and member areas are input. Joint loads are input. Joint displacements, member forces and stresses are output. Reactions are also output.

Contributors Name: James A. Gerwig, CE, SE
Address: SR70 Box 297
Jean, NV 89019

Price: $6.00
Number of bytes 9,261

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix ROM

Memory Options: 82903A Memory Module

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100 -0024

Software Title: Vessel Capacity Evaluation

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the liquid volume given the liquid level or vice-versa for a horizontal or vertical cylindrical vessel with any type of heads/ends in either metric or U.S. units. Volume evaluation is by direct calculation while level evaluation is by an interative technique. Calculation is done in metric units using metres for length and cubic metres for volume.
CONVERSION FACTORS: 1 metre = 1000 millimetres
1 metre = 39.3701 inches

Contributors Name: Manouchehr Shahzadi
Address: Avery-Lawrence
Maxwell Road
P.O. Box 190
Singapore 9003

Price: $6.00
Number of bytes 5,265

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer (Optional)

Memory Options:

Peripherals: HP-9871/HP-IB (Optional)

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0025

Software Title: Mohr's Circle

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves for the principal stresses/angle of the principal stress element as well as the maximum shearing stress/normal stresses and angle of the max shear stress element. Required input are stress in the X and Y directions and shear stress where CW (clockwise) is +.

Contributors Name: Gary Lutnesky
Address: Hewlett-Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 256

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0026

Software Title: Polar Function Plotter

Mainframe(s): HP-83 & HP-85

Software Description:

This program generates a polar plot of a user-supplied function. The angular plotting increment and the number of 360 degree plotting sweeps can be specified. In addition, a value can be entered for a constant to be used in the user's function, if desired. A high-resolution plot of the function is generated.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,450

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0027

Software Title: Interpretation of EE Units

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides practice in the selection of powers of ten in scientific notation. Initial values of inductance and capacitance are generated, and the user must then answer questions about a series resonant circuit with these components. The problems are selected so that all answers are simple powers of ten, and the emphasis is upon the relationship between the units of frequency, time, impedence, admittance, current, potential difference and power.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,308

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0028

Software Title: Analysis of a Balanced Polyphase Induction Motor

Mainframe(s): HP-83 & HP-85

Software Description:

This program aids in the analysis of a balanced polyphase induction motor. Machine design parameters or no-load test data must be supplied and the program will calculate the current, efficiency, torque, losses, electrical power in and the mechanical power out as a function of speed.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,502

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0029

Software Title: Eigenvalues and Eigenvectors of a Real Symmetric Matrix

Mainframe(s): HP-83 & HP-85

Software Description:

Using the Jacobi rotation method, this program calculates eigenvalues and eigenvectors of a real symmetric matrix.

Contributors Name: Hewlett-Packard
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,205

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0030

Software Title: Practice in AC Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

The program generates a graph representing voltage and current in an alternative current circuit. Then 20 questions are asked about the information shown in the graphs. The user must determine the characteristics of the voltage, current and power from the graph. The program shows the expected answer after allowing two attempts to get the correct result.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,082

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0031

Software Title: Practice with Exponential Functions of Time

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides practice in the identification of various characteristics of exponential functions of time. A graph is generated showing and exponential curve, and the user must answer a series of questions using the information in the graph.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,841

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0032

Software Title: Analysis of Current and Voltage Dividers

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides practice in the analysis of voltage and current divider circuits. Both resistive and RLC networks are used, in series and parallel, and the user must calculate impedance, acceptance, resistance, reactance, conductance, susceptance, and voltage and current in the sample circuits.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,888

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0033

Software Title: Algebra of Complex Numbers

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides practice with algebra of complex numbers. Several different types of problems are used to illustrate the use of complex numbers in common equations.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,421

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0034

Software Title: Radio Horizon Calculator

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the "line-of-sight" radio communications range for frequencies above 30 Mhz over level terrain. The calculated output is in statute miles.

Contributors Name: Mike Faulkner
Address: Howard W. Sams Co., Software Division
4300 W. 62nd St.
Indianapolis, IN 46206

Price: $6.00
Number of bytes 2,573

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0035

Software Title: Erection Stresses in Vertical Vessels

Mainframe(s): HP-83 & HP-85

Software Description:

Program will calculate erection loads and stresses in vertical cylindrical stacks or pressure vessels. The program calculates 1-total load, 2-inital pick load, 3-tail load, 4-center of gravity, 5-shear, bending moment, bending stress, allowable bending stress (by modified Donnell's Formula), and the ratio FB/FALB at each section point. 6-also determines moment and stresses at the point of zero shear between the pick points. This program is priced at $12.00 due to the extensive amount of documentation required.

Contributors Name: Noel L. Owen
Address: 30371 Paseo del Valle
Laguna Niguel, CA 92677

Price: $12.00
Number of bytes 12,691

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0036

Software Title: Paraxial Ray Tracing

Mainframe(s): HP-83 & HP-85

Software Description:

Traces rays through optical systems having as many as eight refracting surfaces. The program locates principal and focal planes of the system as well as tracing rays through each surface. It can be used to locate the image plane and size of the image for a given object. It will determine the size of the elements used for that condition. If smaller elements are used, one can use this information to gain some knowledge of the throughput of the system.

Contributors Name: D.J. Lovell
Address: DJ Laboratories
40 Barton Road
Stow, MA 01775

Price: $12.00
Number of bytes 8,665

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix

Memory Options:

Peripherals: Plotter

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0037

Software Title: Step Or Impulse Response Of Transfer Function

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the step or impulse response of any transfer function H(S). The program accepts H(S) in its unfactored form. Soft key selection of program parameters allows easy modification of conditions for repetitive runs. Output is listed on the printer.

Contributors Name: Robert E. Yablonski
Address: EECO Incorporated
1601 East Chestnut
Santa Ana, CA 92701

Price: $6.00
Number of bytes 2,375

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0038

Software Title: Modal Analysis For Statically Coupled Linear Oscillators

Mainframe(s): HP-83 & HP-85

Software Description:

This program determines the natural frequencies and mode shapes for a system of linear oscillators with static coupling and no damping. The mode shape information is given both in numerical and in graphical form. Cholesky decomposition is employed to reduce the matrix eigenvalue problem to symmetric form for solution by the threshold Jacobi algorithm. Up to 25 degrees of freedom can be accomodated.

Contributors Name: Dr. Gary A. Flandro
Address: University of Utah, Dept. of Mechanical Engineering
2020B Merrill Engineering Bldg.
Salt Lake City, UT 84112

Price: $6.00
Number of bytes 3,546

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 100-0039

Software Title: General Utility-Data Manipulation

Mainframe(s): HP-83 & HP-85

Software Description:

Allows entry, storage, retrieval and manipulation of up to 200 data pairs.

Contributors Name: Jim McBurnett
Address:
Tyrone Hydraulics
PO Box 511
Corinth, Mississippi 38834

Price: $6.00
Number of bytes 9801

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Printer-Plotter (GPIB Optional)

Memory Options:

Peripherals:

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200 Math / Numerical Analysis

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0001

Software Title: Hyperbolic Functions

Mainframe(s): HP-83 & HP-85

Software Description: **This program computes hyperbolic functions and their inverses.**

Equations:

Hyperbolic Functions

$$\sinh x = \frac{(e^x - e^{-x})}{2}$$

$$\cosh x = \frac{e^x + e^{-x}}{2}$$

$$\tanh x = 1 - \frac{2}{1 + e^{2x}}$$

Inverse Hyperbolic Functions

$$\sinh^{-1} x = \ln\left[x + (x^2 + 1)^{1/2}\right]$$

$$\cosh^{-1} x = \ln\left[x + (x^2 - 1)^{1/2}\right] \qquad x \geq 1$$

$$\tanh^{-1} x = \tfrac{1}{2} \ln\left[\frac{1 + x}{1 - x}\right] \qquad x^2 < 1$$

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 936

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0002

Software Title: Fast Fourier Transform

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates a fast Fourier transform from a set of time domain points to a set of frequency domain points.

At the users' option, the inverse fast Fourier transform, calculating the set of time domain points from a set of frequency points, may also be calculated.

The method used is a modification of the basic FFT algorithm. The modified algorithm takes advantage of the fact that series data will be real and space normally reserved for the imaginary part of the complex sequence can be used to calculate a double-length real transform. This is represented for two "N" length transforms as: $Z(n) = X(n) + iY(n) \quad 0 \leq n < N$ data points

The tranform is: $Z(m) = X(m) + iY(m)$ where: $X(m) = \frac{Z(m) + Z(N - m)^*}{2}$ and $Y(m) = \frac{Z(m) - Z(N - m)^*}{2i}$

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,362

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0003

Software Title: Fourier Series Coefficients for Unequally Spaced Data Points

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the Fourier Series coefficients for a function defined by discrete data points $X(I)$, $Y(I)$, $I=1,\ldots,N$-$1.N \leq 300$. The data pairs must be entered such that the $X(I)$ are discrete, but not necessarily equally-spaced, and $X(I) < X(I+1)$ for $I+1,\ldots,N$-$1.N \leq 300$. The finite Fourier series is given by the formula:

$$\frac{a_0}{2} + \sum_{i=1}^{N}\left(a_i \cos\frac{2i\pi x}{T} + b_i \sin\frac{2i\pi x}{T}\right) \text{ where } a_i = \frac{2}{T}\int_{x_1}^{x_1+T} f(x)\cos\frac{2\pi i x}{T}\,dx \text{ for } i = 0,\ldots,N \text{ and } b_i = \frac{2}{T}\int_{x_1}^{x_1+T} f(x)\sin\frac{2\pi i x}{T}\,dx \text{ for } i = 1,\ldots,N$$

T specifies the periods equivalent to $(x_n - x_1)$ and N indicates the number of coefficients desired. The coefficients are evaluated by numerically integrating a parabola passing through three successive points. Execution time depends on the number of coefficients calculated.

Contributors Name: Hewlett-Packard
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,624

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0004

Software Title: Fourier Series Coefficients for Equally Spaced Data Points

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the Fourier series coefficients A(I) and B(I) of the Fourier series corresponding to a function F(X) which is specified by N discrete equally spaced data points $X(I)$, $Y(I)$, $I=1,\ldots,N \leq 500$.

If: $g(x) = f(x)\cos\left(\frac{2\pi i x}{T}\right)$ and $h(x) = f(x)\sin\left(\frac{2\pi i x}{T}\right)$ then: $a_i \approx \frac{2\Delta x}{3T}\left\{g(x_1) + 4g(x_2) + 2g(x_3) + 4g(x_4) + \ldots + 4g(x_{n-1}) + g(x_n)\right\}$ and

$b_i \approx \frac{2\Delta x}{3T}\left\{h(x_1) + 4h(x_2) + 2h(x_3) + 4h(x_4) + \ldots + 4h(x_{n-1}) + h(x_n)\right\}$ Sine and cosine functional values are computed recursively with the following formula:

$$\sin\left(\frac{2\pi x_1}{\Delta x}(J+1)\right) = \sin\left(\frac{2\pi x_1}{\Delta x}\right)\cos\left(\frac{2\pi x_1}{\Delta x}J\right) + \cos\left(\frac{2\pi x_1}{\Delta x}\right)\sin\left(\frac{2\pi x_1}{\Delta x}J\right)$$

$$\cos\left(\frac{2\pi x_1}{\Delta x}(J+1)\right) = \cos\left(\frac{2\pi x_1}{\Delta x}\right)\cos\left(\frac{2\pi x_1}{\Delta x}J\right) - \sin\left(\frac{2\pi x_1}{\Delta x}\right)\sin\left(\frac{2\pi x_1}{\Delta x}J\right)$$

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 14,085

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0005

Software Title: Chebyshev Polynomial

Mainframe(s): HP-83 & HP-85

Software Description:

This program fits a tabular function $y(x)$ (given m points (x,y) to a polynomial)

$$P = \sum_{i=0}^{n} A_i X^i$$

This polynomial is the best polynomial approximation of $y(x)$ in the Chebyshev sense. See the two references for a complete description of the method and formula employed.

The polynomial must have degree less than or equal to 10, and the program can handle 450 data points.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,983

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0006

Software Title: Ordinary Differential Equations

Mainframe(s): HP-83 & HP-85

Software Description:

A fourth-order Runge-Kutta procedure for solving systems of first-order ordinary differential equations. The user must supply the dimension of the system of differential equations (≤3), the beginning and end points of integration, the initial value vector, the maximum number of integration steps, and the user-defined system of equations to be solved.

Runge-Kutta methods attempt to obtain greater accuracy, and at the same time avoid the need for higher derivatives, by evaluating the function F at selected points on each subinterval. For the equation $y' = f(x,y)$, $y(x_n)$ and y_n and step size h, approximations y_n to $y_{(x_n + nh)}$ for $n = 0,1,2\ldots$ are generated using the recursion formula $y_{n+1} = y_n + \frac{1}{6}(k_1 + 2k_2 + 2k_3 + k_4)$ where $k_1 = hf(x_n, y_n)$ $k_2 = hf\left(x_n + \frac{h}{2}, y_n + \frac{1}{2}k_1\right)$ $k_3 = hf\left(x_n + \frac{h}{2}, y_n + \frac{1}{2}k_2\right)$ $k_4 = hf(x_n + h, y_n + k_3)$

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,739

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0007

Software Title: Integration with Unequally Spaced Data Points

Mainframe(s): HP-83 & HP-85

Software Description:

This program approximates $\int_a^b f(x)d(x)$ where $f(x)$ is represented by discrete function values for unequally spaced domain values x within the interval $[a,b]$. The user is required to input the data points and the tolerance desired. The number of data points must be less than or equal to 300.

The method implemented in this program involves fitting a curve through the data points and integrating that curve. The curve used is the cubic natural spline function which derives its name from a draftsman's mechanical spline. If the spline is considered as a function represented by $s(x)$, the second derivative $s''(x)$ approximates the curvature.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,904

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0008

Software Title: Integration with Equally Spaced Data Points

Mainframe(s): HP-83 & HP-85

Software Description:

This program approximates $\int_a^b f(x)dx$ where $f(x)$ is represented by discrete function values $f(x_i)$ at equally spaced points x_i. The user is required to supply the increment between intervals, the number of data points, which must be an odd integer less than or equal to 999, and the function's value at each of the data points. Simpson's one-third rule is used to approximate the integral.

$$\int_a^b f(x)dx \left\{\frac{h}{3} \quad f(a) + 4f(a+h) + 2f(a+2h) + 4f(a+3h) + \ldots + 4f(a+(n-1)h) + f(a+nh)\right\}$$

Where: n = number of intervals (number of data points minus one) $\qquad h = \frac{b-a}{n}$

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,985

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0009

Software
Title: Solution to F(X) on an Interval

Mainframe(s): HP-83 & HP-85

Software Description:
Given a first guess, this program will search for a real root of the equation F(X) = 0, where the user defines the continuous real-valued function F(X) starting at line 5000.
Roots are found by marching along at a given step size until a change of sign is encountered. A modified secant method is then used to determine the zero of the function.
The user is required to specify the error tolerances for the root and for the function evaluation, as well as the step size and the maximum number of steps and iterations allowed.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,579

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0010

Software
Title: Simultaneous Equations

Mainframe(s): HP-83 & HP-85

Software Description:
This program solves the system of equations AX = B using Gaussian elimination. It is assumed that the matrix A is square. The triangular matrices overwrite A and the solution matrix X overwrites B. This saves a significant amount of memory, but in the process, the values contained in matrices A and B are destroyed.

The program is designed to handle up to (and including) 25 equations. Once the coefficients have been entered, and editing option is available before the equations are solved.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,775

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0011

Software Title: Triangle Solutions

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds the dimensions of the sides and angles of a triangle, and also determines the area.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,308

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0012

Software Title: Complex Operations

Mainframe(s): HP-83 & HP-85

Software Description:

This program is used for calculations involving complex numbers. Three operations of complex arithmetic (+,x,÷) are provided, as well as common functions of a complex variable z (z^N, $z^{1/N}$, e^z and $\mathrm{LOG}z$) and the evaluation of a complex polynomial at a complex point.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,045

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0013

Software Title: Jacobi Method-Matrix Eigenvalue Problem

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the eigenvalues and eigenvectors for a real, symmetric matrix by use of the threshold Jacobi method. It is suitable for matrices of moderate size (n<25 for 16K memory; n<40 for 32K memory).

Contributors Name: Dr. Gary A. Flandro
Address: University of Utah
Mechanical Engineering Dept.
Salt Lake City, UT 84112

Price: $6.00
Number of bytes 12,827

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: Optional 16K RAM

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0014

Software Title: Bessel Functions $J_0(x)$, $J_1(x)$, $J_2(x)$ and jinc(x)

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the Bessel Functions $J_0(x)$, $J_1(x)$, and $J_2(x)$ and also the function jinc(x) which is the two-dimensional analogue of the sinc function. Graphs of these functions over any range may be generated. Values are correct to six decimals.

Contributors Name: Professor Ronald N. Bracewell
Address: Stanford University
329A Durand
Stanford, CA 94305

Price: $6.00
Number of bytes 3,933

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0015 ✓

Software Title: Contour Plot

Mainframe(s): HP-83 & HP-85

Software Description:
This program produces a contour plot of a user-defined function of two variables.

Contributors Name: Professor Ronald N. Bracewell
Address: Stanford University
329A Durand
Stanford, CA 94305

Price: $6.00
Number of bytes 5,025

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0016 ✓

Software Title: Aitkin's Interpolation

Mainframe(s): HP-83 & HP-85 ✓

Software Description:
This program interpolates numbers using Aitkin's interpolating polynomial.

Contributors Name: James P. Jones
Address: Star Route 1, Box 241
Buckeye, AZ 85326

Price: $6.00
Number of bytes 8,079

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0017

Software Title: Complex Trigonometric Functions

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the values of SIN, COS, TAN, SINH, COSH, and TANH for a complex argument of the form A +iB. The program will request the values of A and B (in radians) and give the real and imaginary part of each function.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,862

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0018

Software Title: Spherical Triangles

Mainframe(s): HP-83 & HP-85

Software Description:

Solves spherical triangles with the apex at the North Pole, and the other two corners defined by their respective latitude and longitude.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,908

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0019

Software Title: Parabolic Equation

Mainframe(s): HP-83 & HP-85

Software Description:

Finds the equation of a parabola passing through three given points and graphs it. If the points determine an equation that is not a function, the program will so indicate. The three points are input one at a time in the form x,y.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,594

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0020 ✓

Software Title: Area Under a Curve

Mainframe(s): HP-83 & HP-85

Software Description:

Computes area under a curve, its moment, and its center of gravity along the y- and x-axes, using Simpson's Rule for numerical integration.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,711

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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Contact your dealer or Hewlett-Packard.

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0021

Software Title: Linear Equations-Gaussian Reduction

Mainframe(s): HP-83 HP-85

Software Description:

Solves simultaneous linear equations using Gaussian reduction.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,809

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0022

Software Title: Polygon Area

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the area enclosed in any polygon, when given the coordinates of its vertices.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,805

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0023

Software Title: Bessel Functions

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates Bessel Functions of the first kind using an integration routine based on Simpson's Rule.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,068

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0024

Software Title: Complex Determinant

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the value of a complex determinant using the CROUT method.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,178

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0025

Software
Title: Simultaneous Linear Equations

Mainframe(s): HP-83 & HP-85

Software Description:

Solves simultaneous linear equations using the CROUT algorithm.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,548

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0026

Software
Title: Quadratic Equation

Mainframe(s): HP-83 & HP-85

Software Description:

This program analyzes quadratic equation.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,631

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0027

Software Title: Interpolation of Non-Linear Functions

Mainframe(s):

Software Description:

This program provides for interpolation of non-linear function by Newton's formula. It performs well on exponential and other functions where linear interpolation techniques are unsatisfactory. It has been used with good results on thermocouple calibration tables, blackbody radiation tables, and various exponential functions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,170

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0028

Software Title: Vecotr Exponentiations

Mainframe(s):

Software Description:

This program raises a complex number to a real or complex power expressed in cartesion coordinates to a real power or a complex power.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,074

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0029

Software Title: General Fast Fourier Transform

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds the Fourier transform of a function using the Cooley-Tukey algorithm, which allows dramatic savings in time and storage over conventional methods. Inverse transforms can also be taken with this routine.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,018

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0030

Software Title: Real to Complex Fast Fourier Transform

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs a real to complex Fourier transform.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,642

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0031

Software Title: Complex to Real Fast Fourier Transform

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds the time function given a complex line spectrum.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,742

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0032

Software Title: Roots of Polynomials

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds roots of polynomials using Bastow's Method. The user must provide the order of the polynomial and its coefficients in order from left to right. The roots of some forms of polynomials cannot be determined by this program. Execution time for polynomials of high order may be excessive since many iterations may be required.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,202

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0033

Software Title: Definite Integral

Mainframe(s): HP-83 & HP-85

Software Description:

This program uses the three-point Gaussian integration formula to compute a definite integral.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,231

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0034

Software Title: Vector Arithmetic

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs the four basic operations (+,-,x,/) with vectors.

Contributors Name: Hewlet-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,253

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0035

Software Title: Roots or Fixed Points of Nonlinear Functions

Mainframe(s): HP-83 & HP-85

Software Description:
This program can be used to find the roots or the fixed points of a non-linear function, F(x), using Wegstein's acceleration of the standard iteration procedure.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,748

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0036

Software Title: Solution of First Order Differential Equations

Mainframe(s): HP-83 & HP-85

Software Description:
This program solves a set of linear first-order differential equations using the Runge-Kutta-Gill algorithm.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,992

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0037

Software Title: Arithmetic Mean, Median and Standard Deviation

Mainframe(s): HP-83 & HP-85

Software Description:

Finds the arithmetic mean (average), median value, and the standard deviation of a set of numbers supplied by the user.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,363

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0038

Software Title: Trigonometric Solutions of Triangles

Mainframe(s): HP-83 & HP-85

Software Description:

Given three parts of a triangle, the program will determine the remaining three parts and graph the triangle.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,509

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0039

Software Title: Properties of a Straight Line

Mainframe(s): HP-83 & HP-85

Software Description:

Finds the slope, midpoint and length of a line setment between two points supplied by the user. The resulting line is graphed.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,710

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0040

Software Title: Quadratic Equation Solver

Mainframe(s): HP-83 & HP-85

Software Description:

Solves all cases of the quadratic equation and provides a graphic representation of the function and its roots.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,626

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0041

Software Title: Approximating The Derivative Using Secant Slopes

Mainframe(s): HP-83 & HP-85

Software Description:

Approximates the value of the derivative of a function by calculating the slope of the curve.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,160

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0042

Software Title: Area of a Surface of Revolution

Mainframe(s): HP-83 & HP-85

Software Description:

Calculates the area of a surface of revolution formed by the rotation of a curve about the X-axis.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,929

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0043

Software Title: Volume of a Solid of Revolution

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the volume of revolution generated by rotating a curve around the X-axis.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,215

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0044

Software Title: Length of a Curve

Mainframe(s): HP-83 & HP-85

Software Description:

Approximates the length of a curve between two points by summing the lengths of a number of secants to the curve.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,726

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0045

Software Title: Area Under a Curve

Mainframe(s): HP-83 & HP-85

Software Description:

This program evaluates the definite integral of a function by three methods of numerical approximation. Graphical representations are used to illustrate the limiting process.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 9,601

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0046

Software Title: Complex Linear Equations

Mainframe(s): HP-83 & HP-85

Software Description:

This program will solve complex systems of linear equations for up to ten user-specified frequencies. If the system is under-determined, the vectors of the null space will be produced. Results are given in rectangular and polar form.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,133

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0047

Software
Title: Base Calculator

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs basic operations on numbers of different bases.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,874

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0048

Software
Title: Algebra for Exponentials and Sinusoids

Mainframe(s): HP-83 & HP-85

Software Description:
The keys are used to control operations on expressions which are sums of terms of the form $\exp(-a_j z)\ [C_{1j} \cos(B_j z) + C_{2j} \sin(B_j z)]$.
"Input" (Key #1) puts one term into expression #0. (The expressions are numbered 0 to 9; each may hold up to 20 terms). "Copy" (Key #4) copies an expression. "Output" (Key #2) prints an expression. "Eval" (Key #6) evaluates an expression at a given z and prints the value. "Mulply" (Key #3) multiplies two expressions (puts result into specified place). "Add" (Key #5) adds one expression to another. "Intgr" (Key #7) forms antiderivative of expression. "Deriv" (Key #8) forms derivative.

Contributors Name: Rory Thompson
Address: CSIRO Oceanography
Box 21
Cronulla, NSW
Australia 2230

Price: $6.00
Number of bytes 11,737

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0049 ✓

Software Title: Quick Plot of REAL Data

Mainframe(s): HP-83 & HP-85

Software Description:

A given data set-read from tape or computed from a user-defined function, can be plotted with a minimum of instructions. Scaling, tic-placement and labeling are automatic. Plot options include: linear or logarithmic scale, either in units or in multiples of π; margins on x-or y-scale; axis placement; specification of an x-or y-section with automatic adjustment of scaling; window. Tics will be placed at "neat" values only, independent of data range, offset or scaling. A hardcopy of any number of screen widths/heights is optional.

Contributors Name: Hans Thomas Meyer
Address: Auenstrasse 70
Postfach 14 04 48
8000 Muenchen 5
West Germany

Price: $6.00
Number of bytes 28,305

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: 82903A 16K Memory Module

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0050

Software Title: Stereographic Images

Mainframe(s): HP-83 & HP-85

Software Description:

This program draws stereographic images on screen or plotter (9872A). Information may be entered as a function of two variables, or as a sequence of points. Points may be input or retrieved from a file, or deposited in a file.
This program is priced at $12.00 due to the extensive amount of documentation included.

Contributors Name: David Goldberg
Address: Washtenaw Community College
P.O. Box D-1
Ann Arbor, MI 48106

Price: $12.00
Number of bytes 13,257

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer

Memory Options:

Peripherals: Plotter optional

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0051

Software Title: Ordinary Differential Equations I

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves a system of up to 16 simultaneous first order differential equations by the 4th order Runge-Kutta-Gill algorithm. With user-defined keys, integration limits, initial values, integration step size, and output print interval can be varied. All inputs are explained and prompted. Output includes, in addition to the independent and dependent variables, the intermediate derivatives and a summary of the input variables and integration parameters.

Contributors Name: Edward O. Goffinet, Jr.
Address: 2403 Annwood Drive
Wilmington, Delaware 19810

Price: $6.00
Number of bytes 3,816

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0052

Software Title: Circular Segments

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes various values of circular segments.

Contributors Name: Paul Cannon
Address: Rollin J. Lobaugh, Inc.
930 Linden Avenue
San Francisco, CA 94080

Price: $6.00
Number of bytes 3,548

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0053

Software Title: Scatergram With Linear Regression Analysis

Mainframe(s): HP-83 & HP-85

Software Description:

Scater is a conversational program that will plot paired data points on a set of axes whose scale, "Tic" mark increment and labels are set by the user. A linear regression analysis may be performed on the data and the regression line superimposed on the data.

Contributors Name: David C. Potter
Address: National Marine Fisheries Service
Water Street
Woods Hole, MA 02543

Price: $6.00
Number of bytes 9,804

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals: 7225a Plotter can be used

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0054

Software Title: Jacobian Elliptic Functions

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the Complete Elliptic Integrals of the First Kind, K(k), and the Second Kind, E(k), as well as sn(u,k), can(u,k), and dn(u,k). (The three Jacobian elliptic functions are a complete copolar trio from which all 12 of the doubly periodic meromorphic functions could be calculated.)

Contributors Name: Gus L. Hoehn
Address: Mobil
3512 S. Franklin Street
Dallas, TX 75233

Price: $6.00
Number of bytes 1,851

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0055

Software Title: Function Plotter

Mainframe(s): HP-83 & HP-85

Software Description:

This program will plot on the HP85's screen a user-defined function within an x-y boundary, also specified by the user. The plot can then optionally be sent to the HP85's printer.

Contributors Name: Ken Hayes
Address: 4256 Navajo Street
Toluca Lake, CA 91602

Price: $6.00
Number of bytes 943

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 200-0056

Software Title: Cubic Equation Solver

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves cubic equations of the form

$$X^3 + AX^2 + BX + C = 0$$

It provides both real and imaginary roots.

Contributors Name: Albert E. Hayes, Jr.
Address: Albert Hayes & Associates
P.O. Box 2946
Fullerton, CA 92633

Price: $6.00
Number of bytes 1,191

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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300 Probability / Statistics

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0001

Software Title: Random Sample Generator

Mainframe(s): HP-83 & HP-85

Software Description:

This program will generate a user-determined amount of random numbers (less than 1,000), each less than the user-determined universe. Options allow the user to allow or disallow repeats. Options also allow screen display or printer listing.

Contributors Name: Eugene W. Hungate
Address: Elkhart Community Schools
2720 California Road
Elkhart, IN 46514

Price: $6.00
Number of bytes 10,983

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0002

Software Title: Least-Squares Fit

Mainframe(s): HP-83 & HP-85

Software Description:

Performs a least-squares curve fit to various functions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,950

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0003

Software Title: Probability Distribution Comparisons

Mainframe(s): HP-83 & HP-85

Software Description:

Produces a comparison of probability distributions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,495

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0004

Software Title: Probability of Chi-Square Values

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the 'exact' probability of a chi-square value with specified degrees of freedom.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,339

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0005

Software Title: Expected Value of Perfect Information

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the expected value of perfect information.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,637

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0006

Software Title: Chi-Square Test

Mainframe(s): HP-83 & HP-85

Software Description:

Applies a Chi-square test to several sample proportions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,663

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0007

Software Title: Exact Probability of an F-Ratio with Degrees of Freedom

Mainframe(s): HP-83 & HP-85

Software Description:

Computes the exact probability of an F-ratio with degrees of freedom.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,516

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0008

Software Title: Binomial, Poisson and Hypergeometric Probabilities

Mainframe(s): HP-83 & HP-85

Software Description:

Computes Binomial, Poisson or Hypergeometric probability.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,566

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0009

Software Title: Fisher's Exact Probability Test

Mainframe(s): HP-83 & HP-85

Software Description:

Analyzes discrete data from two independent small samples which fall into one of two mutually exclusive classes.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,665

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0010

Software Title: Subjective Probability Distribution

Mainframe(s): HP-83 & HP-85

Software Description:

Determines a subjective probability distribution given the minimum, maximum and most probable values.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 7,710

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0011

Software Title: Analysis of Variance and F-Ratio

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes an analysis of variance table and F-ratios for a simple Graeco-Latin square design.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,006

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0012

Software Title: Kruskal-Wallis One-Way Anova

Mainframe(s): HP-83 & HP-85

Software Description:

This program produces a one-way analysis of variance using the Kruskal-Wallis technique.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,858

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0013

Software Title: Three Factorial Analysis of Variance

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes an analysis of variance for an experiment with three facors.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,671

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0014

Software Title: Regression/Correlation

Mainframe(s): HP-83 & HP-85

Software Description:

Regression/correlation performs simple regression and correlation analysis on a series of observations of the values of two variables.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,693

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0015

Software Title: Analysis of Covariance

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes an analysis of covariance table, f-ratio and adjusted means for groups of unequal size.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,216

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0016

Software Title: Basic Statistics

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates basic statistics for grouped and/or ungrouped data.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,973

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0017

Software Title: Confidence Limits

Mainframe(s): HP-83 & HP-85

Software Description:

Determines the confidence limits for a population proportion based on the exact binomial distribution.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis,OR 97330

Price: $6.00
Number of bytes 2,591

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0018

Software Title: Correlation Coefficient

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the correlation coefficient for two sets of data having an equal number of elements in each set.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,666

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0019

Software Title: Pooled Mean and Standard Deviation

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the pooled mean and standard deviation for up to 30 groups of data.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,268

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0020

Software Title: Least Squares Fit, Multiple Y's Per X

Mainframe(s): HP-83 & HP-85

Software Description:

This program does a least-squares fit for groups having more than one Y per X.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,399

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0021

Software Title: Differences Between Variances

Mainframe(s): HP-83 & HP-85

Software Description:

This program tests for differences between two independent or dependent variances. The user has the option of entering the raw data or the actual variances to be tested. In the test for dependent variances, the user must also supply the correlation between the two samples if the raw data is not entered.
If the variances are sample variances, the program converts them to population estimates before testing for differences.
Independent variances are tested by means of the F ratio, while dependent variances are tested by the t ratio.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 13,681

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0022

Software Title: Probabilities of Hitting NRA Metallic Silhouettes

Mainframe(s): HP-83 & HP-85

Software Description:

Given the standard deviation of your bullet pattern, in minutes of angle (which for all practical purposes equals the extreme spread, inches, of your average ten shot group at 25 yards) this program will give the probabilities of hitting each of the four different metallic silhouettes used in the NRA High Power Rifle, NRA Hunters' Pistol, and IHMSA Center Fire Pistol matches, as well as the average probability and score for the 40 shot match. By shooting a few 10 shot groups in your normal match position at 25 yards, you will be able to predict what your scores should be, assuming proper sight-in.

Contributors Name: William S. Woodward
Address: Box 2269
Carefree, AZ 85377

Price: $6.00
Number of bytes 3,724

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0023 ✓

Software Title: Step-Wise Regression

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs a step-wise regression analysis for a depended variable x_j (for j=1 to m). Independent variables are selected in order or importance and entered into a multiple linear regression model.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,330

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0024 ✓

Software Title: Simple Regression and Plot

Mainframe(s): HP-83 & HP-85

Software Description:

This program performs a simple regression and provides a plot of the data points.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,239

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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Contact your dealer or Hewlett-Packard.

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0025

Software Title: Multiple Regression/Correlation

Mainframe(s): HP-83 & HP-85 ✓

Software Description:

This program performs multiple linear regression and correlation. The user is required to enter the variables in data statements.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 14,062

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0026

Software Title: Computing an Ergodic Markov Chain

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes for an ergodic Markov chain the following basic quantities: limiting probabilities, fundamental matrix, potential operator, mean first passage times, first passage times in equilibrium, variances of first passage times, limiting variances, and the transition matrix of the reverse chain.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,192

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Matrix

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0027

Software Title: Confidence Limits for a Set of Data

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the confidence limits for a set of data using the Wilcoxon signed rank sum procedure with fractional counts.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,551

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0028

Software Title: Random Hits on NRA Metallic Silhouettes

Mainframe(s): HP-83 & HP-85

Software Description:

This program draws a properly scaled NRA silhouette target on the screen and superimposes random hits conforming with the skill level of the shooter. It applies to the NRA High Power and .22 Rifle, NRP Hunter's Pistol, and IHMSA Center Fire Pistol matches. By rerunning under the same conditions the shooter can see how his scores may vary by chance alone, and the effects of sight errors.

Contributors Name: William S. Woodward
Address: P.O. Box 2269
Carefree, AZ 85377

Price: $6.00
Number of bytes 4,860

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Mass Storage ROM

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0029

Software Title: Three-Factor Split-Plot Anova (p.qr)

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a three-factor split-plot analysis of variance for equal sample sizes. In this design there are two factors with repeated measures and one factor without repeated measurement.
The output consists of means and standard deviations for each cell and treatment and a complete ANOVA summary table, including three main effect, three two-way interaction and one three-way interaction.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 14,109

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0030

Software Title: Three-Factor Split Plot Anova (pr.q.)

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a three-factor split-plot ANOVA with equal sample sizes. In this design there is one factor that is a repeated measure while the other two factors are not repeated measurements.
The output consists of means and standard deviations for each cell and treatment and a complete ANOVA summary table.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 14,097

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0031

Software Title: One-Way Anova Using Summary Statistics

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a one-way analysis of variance using only means, standard deviations and number of cases per treatment. This may represent a great savings in time when large numbers of subjects are involved, and sometimes is the only way to do analysis from data presented in journal articles. This program can also be used to check on the accuracy of data presented elsewhere.
The only requirement is that the standard deviations have to be the actual standard deviations for the samples involved. If the standard deviations are estimates of the population standard deviation, the program converts them to sample standard deviations.
The user also has the option of obtaining estimates of strength of association for either the fixed or random effects model on the data.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 4,951

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0032

Software Title: Two-Way Anova Using Summary Statistics

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a two-way analysis of variance using only means, standard deviations, and a number of subjects per cell. The use of this program may save a considerable amount of time, as compared to programs requiring entry or all the raw scores.
The user has the option of running the fixed, random, or mixed effects model. If the random effects model is chosen, the user has the option to use the pooled mean square error if the interaction effect is found to be zero. Strength of association estimates are also computed for each model.
The only restriction is that the user must specify whether or not the entered standard deviations are sample or population estimates. If they are sample standard deviations, the program transforms them to population estimates before computing the analysis of variance summary table.

Contributors Name: Ricahrd A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 12,804

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0033

Software Title: CRDAOV; Completely Randomized Design Analysis of Variance

Mainframe(s): HP-83 & HP-85

Software Description:

The simplest experimental design is the Completely Randomized Design (CRD). The program CRDAOV will analyze almost any data from this design, for example a factorial treatment design. This is achieved by way of a convenient contrast-specification routine. Output includes the significance levels of certain statistics, and two scatter plots. The first of the latter is a plot of residuals against cell means while the second is an empirical normal plot. These diagrams allow for the recognition of abnormalities in the data being analyzed. NOTE: Several data files are used in the sample run. These data files will be included if the program is purchased recorded.

Contributors Name: J.H. Randall
Address: 16 Hagerhof
Borcherd STreet
Stellenbosch
South Africa 7600

Price: $6.00
Number of bytes 13,656

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0034

Software Title: Comparing All Means With A Control

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a multiple range test for an experiment in which the object is to compare a number of treatments with control condition. Dunnett's statistic is used. The program first computes a one-way analysis of variance and then proceeds to the multiple comparisons. The output consists of means, standard deviation, n's, a complete analysis of variance table, mean differences and D scores. The user has the option of entering the raw data or summary statistics (means, standard deviations and n's).

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 3,724

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0035

Software Title: Two-Way Split-Plot ANOVA

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a two-way analysis of variance when one of the factors has repeated measurements on the same subject and the number of observations in each cell are equal.

The output consists of means and standard deviations for all cells and treatments under each factor, a complete ANOVA summary table and strength of association estimates.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh St.
Long Beach, CA 90822

Price: $6.00
Number of bytes 4,188

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0036

Software Title: One-Way ANOVA: Unequal Variances

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a one-way analysis of variance when it cannot be assumed that the variances are equal. The Welch-Aspin approach is used. The user has the option of entering data or summary statistics (n's, means and standard deviations).

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 2,582

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0037

Software Title: Averaging Coefficients Of Correlation

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the average correlation from any number of individual correlations. It uses the average z (Fisher's) method where the z's are weighted by their degrees of freedom. The average z is then transformed back to the correlation. Equal or unequal sample sizes are acceptable for this method.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 1,926

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0038

Software Title: Percentage Correctly Classified

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the proportion correctly classified when significant differences are used for classifying subjects into two groups. The form of simple discriminant analysis used here is a method devised by Levy. Input consists of a z score and the percentage correctly and incorrectly classified.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 827

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0039

Software Title: Split-Plot ANOVA: Least-Squares Solution

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a two-factor split-plot ANOVA for designs having unequal sample sizes. The least-squares solution is used and is appropriate when the unequal sample sizes are the result of causes related to the nature of the experimental treatments. The output consists of cell and treatment means and standard deviations and a complete ANOVA summary table.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 3,795

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0040

Software Title: Split-Plot ANOVA: Unweighted-Means Solution

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a two-factor split-plot ANOVA for designs having unequal sample sizes. The unweighted-means solution is used and is appropriate when the unequal sample sizes are the result of causes unrelated to the nature of the experimental treatments. The output consists of cell and treatment means and standard deviations and a complete ANOVA summary table.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 3,739

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0041

Software Title: t Test With Unequal Variances (t*)

Mainframe(s): HP-83 & HP-85

Software Description:

This program tests the difference between two means when it is assumed that the population variances are not equal. This test is based upon the Welch-Aspin approximation to the t distribution. The user has the option of entering the actual obtained data or summary statistics (n's, means, and standard deviations).

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 3,386

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0042

Software Title: Probability and Statistics

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes a Fisher's z for any entered r or a r for any entered Fisher's z. The user can also request a printed table of r to z for starting and ending correlations of the user's choice. The increment increase between correlations in the table is also determined by the user. Data to four significant digits is printed.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 1,329

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0043

Software Title: Latin Square Anova: n>1

Mainframe(s): HP-83 & HP-85

Software Description:

Computes a Latin square ANOVA in which there is more than one observation per cell. In this case the within cell variance is used as the error term. The residual F ratio can be used as an indication of whether or not there are some interaction components affecting the F ratios for rows, columns or treatment.

The output consists of cell, row, column and treatment.

Contributors Name: Richard A Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E Seventh St.
Long Beach CA 90822

Price: $6.00
Number of bytes 11230

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 300-0044

Software Title: Latin Square Anova: n = 1

Mainframe(s): HP-83 & HP-85

Software Description:

Computes a Latin square ANOVA in which there is one observation per cell. The output consists of means, standard deviations and F ratios for rows, columns and treatment, and strength of association estimate for treatment. This program is applicable to fixed, random or mixed models.

Contributors Name: Richard A Charter
Address: Veterans Administration Medical Center
Psychology Service (116B)
5901 E Seventh St.
Long Beach CA 90822

Price: $6.00
Number of bytes 9203

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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400 Life Sciences

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 400-0001

Software Title: Photosynthesis Experiment

Mainframe(s): HP-83 & HP-85

Software Description:

The program investigates changes in rate of photosynthesis when Carbon Dioxide concentration and light intensity are varied.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,703

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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500 Physical Sciences

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0001

Software Title: Spheroid Earth

Mainframe(s): HP-83 & HP-85

Software Description:

1. Given the latitude and longitude of two points on the earth's surface, the geodetic distance between them and the forward and backward azimuths are computed.
2. Given the latitude and longitude of a point on the earth's surface and the geodetic distance and forward azimuth to a second point, the latitude and longitude of the second point and the backward azimuth are computed. The World Geodetic System 1972 (WGS 72) parameters of the earth are incorporated.

Contributors Name: Rex H. Shudde
Address: Naval Postgraduate School
Code 55Su
Monterey, CA 98940

Price: $6.00
Number of bytes 5,159

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0002

Software Title: Unit Cell Calculations

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes several variables based on the unit cell in any crystal system including: 1) reciprocal lattice constants, 2) d-value and two-theta diffraction angle for any hkl set, 3) reciprocal lattice vector for any hkl set (d*,zeta, xi) for rtotation about a, b, or c- axes, 4) interplanar angles (pole angles) for any two hkl sets.

Contributors Name: Professor Edward S. Clark
Address: Ploymer Engineering
The University of Tennessee
Knoxville, TN 37916

Price: $6.00
Number of bytes 4,133

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0003

Software Title: Young's Double Slit Experiment

Mainframe(s): HP-83 & HP-85

Software Description:

In this program Young's Double Slit Experiment is simulated.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,617

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0004

Software Title: Lens Problems

Mainframe(s): HP-83 & HP-85

Software Description:

This program solves Lens problems involving focal length, object distnace, image distance, image size or object size.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,462

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0005

Software Title: Snell's Law

Mainframe(s): HP-83 & HP-85

Software Description:

This program presents Snell's Law pictorially.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,047

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0006

Software Title: Photoelectric Effect

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates an experiment involving the photoelectric effect allowing students to improve their understanding of the phenomenon.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,567

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0007

Software Title: Optical Absorption Spectra Simulation

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes and plots simulated optical absorption spectra for up to five equilbrium mixtures of a system of two interconvertible chemical species.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,268

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0008

Software Title: Propagation of Error

Mainframe(s): HP-83 & HP-85

Software Description:

The program computes the precision of a quantity computed from imprecise measured quantities.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,324

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0009

Software Title: Cloud Formation

Mainframe(s): HP-83 & HP-85

Software Description:

This program tests students ability to solve problems on cloud formation.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,663

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0010

Software Title: Electronic Configuration

Mainframe(s): HP-83 & HP-85

Software Description:

The program derives the electronic configuration of any element.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,029

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0011

Software Title: Empirical Formulas

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the empirical formula from the atomic mass and percent composition.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,369

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0012

Software Title: Projectile Motion

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the coordinates, vertical and horizontal velocities, and speed of a projectile for equal time intervals.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,931

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0013

Software Title: Instantaneous Velocity

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes instantaneous velocity at points on a graph of distance vs. time for an accelerating body.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,771

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0014

Software Title: Einstein Distortions

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates the Relativistic effects on a 'twin' travelling some percent of the speed of light.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,366

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0015

Software Title: Atomic Weight

Mainframe(s): HP-85 & HP-85

Software Description:

This program calculates the atomic weight of an element.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,987

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0016

Software Title: Sum of Two Waves

Mainframe(s): HP-83 & HP-85

Software Description:

This program finds the sum of 2 waves, one provided by the student and one by the computer.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,567

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0017

Software Title: Avogadro's Number

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates Avogadro's Number.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,001

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0018

Software Title: Nuclear Decay

Mainframe(s): HP-83 & HP-85

Software Description:

This program will find the half-life and mass at a given time of an element.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,806

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0019

Software Title: Sidereal Time and Polaris Position

Mainframe(s): HP-83 & HP-85

Software Description:

This program accurately computes local sidereal time and determines the position of Polaris in terms of astronomical coordinates and angular relationship to celestial North Pole. Program plots a star chart of the north polar region, showing Polaris and the constellations Cassiopeia and Ursa Major ("Big Dipper") at the longitude, time and date specified. This chart is particularly useful for alignment of portable telescopes to the celestial pole. Program also yields universal time and Julian date.

Contributors Name: David I Kosowsky
Address: Damon Corporation
115 Fourth Avenue
Needham Heights, MA 02194

Price: $6.00
Number of bytes 5,141

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0020

Software Title: Subsonic Ballistics for Sports Implements and Ancient Arms

Mainframe(s): HP-83 & HP-85

Software Description:

This program calculates trajectories for missiles of different shapes under consideration of the air resistance. Ballistic tables with values for flight line, distance, height, angle and energy will be given out. The initial values are retained by the program; they may be edited and the program may be started once more with partially altered initial values. A subprogram is provided to compute the air density from air pressure, temperature and relative moistness.

Contributors Name: Dr. D. Baatz
Address: Saalburg-Kastell
Bad Homburg v.d.H. 1
D-6380 Germany

Price: $6.00
Number of bytes 6,381

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0021

Software Title: Magnetic Field Picture

Mainframe(s): HP-83 & HP-85

Software Description:

This program offers a picture of the effects of current on a magnetic field.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,819

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0022

Software Title: Blackbody Radiation Characteristics

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes spectral and integrated radiance of blackbodies and presents plots as a function of either radiant power or number of photons. It also computes the effective radiance for a detector at a temperature other than that of the source. It will indicate the error in determining radiance relative to an error in temperature.

Contributors Name: D.J. Lovell
Address: DJ Laboratories
40 Barton Road
Stow, MA 01775

Price: $6.00
Number of bytes 21,002

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer

Memory Options: 16K RAM

Peripherals: 7225A Plotter desirable

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0023

Software Title: Interplanetary Trajectories

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the three-dimensional heliocentric conic trajectory between any two planets (or other objects) for specified departure and arrival dates. Detailed information on the departure and arrival geometry, velocities and required launch energy is generated. Characteristics of the transfer orbit are displayed. Projections of the trajectory and the orbits of the departure and target planets are displayed on the CRT.

NOTE: A data file accompanies this program, so it must be purchased recorded.

Contributors Name: Dr. Gary A. Flandro
Address: University of Utah
Dept. of Mechanical Engineering
Salt Lake City, UT 84112

Price: $6.00
Number of bytes 6,745

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0024

Software Title: Chromatograph-Data Acquisition

Mainframe(s): HP-83 & HP-85

Software Description:

This program stores the analog information generated by a chromatograph. The analog signal is digitized by the Digital Voltmeter (DVM) and transmitted to the HP-IB. Data acquisition is initiated by a dominant event in the chromatograph spectrum. Following this event both the digitized data and time information are stored in the HP-85 memory. At the end of the spectrum the data is written on the HP data cartridge.

Contributors Name: V.C. Negro
Address: US Dept of Energy-EML
376 Hudson Street
New York, NY 10014

Price: $6.00
Number of bytes 5,220

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: I/O ROM

Memory Options: 82903A 16K Memory Module

Peripherals: 82937A HP-IB Interface, HP Model 3438ADVM

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0025

Software Title: Planetary Positions

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the equatorial coordinates (right ascension and declination) of the Moon and the planets Mercury, Venus, Mars, Jupiter and Saturn. The only input required is the date. Accuracy is within 1 minute of right ascension and 0.1 degrees of declination of dates from 1900 through 2200.

THIS PROGRAM MUST BE PURCHASED RECORDED DUE TO NUMEROUS DATA FILES.
Please add media cost when ordering.

Contributors Name: Dr. David I. Kosowsky
Address: Damon Corporation
115 Fourth Avenue
Needham Hts., MA 02194

Price: $6.00
Number of bytes 9,348

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0026

Software Title: Molecular Weight Determination

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the molecular weight of a specified compound.

Contributors Name: Frederick W. Mader
Address: E.I. du Pont de Nemours & Co., Inc.
12 Penn Oak Lane
Kennett Square, PA 19348

Price: $6.00
Number of bytes 3,634

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0027

Software Title: Lens Calculations

Mainframe(s): HP-83 & HP-85

Software Description:

This program takes any two parameters of simple lenses from the group of focal length, object distance, image distance, total object to image distance and magnification and computes the other three. The program also computes F/#, depth of focus and depth of field.

Contributors Name: Matthew S. Brennesholtz
Address: Philips ECG, Inc.
Johnston Street
Seneca Falls, NY 13148

Price: $6.00
Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0028

Software Title: Seawater Salinity and Density

Mainframe(s): HP-83 & HP-85

Software Description:

This program converts electrical conductivity, temperature, and pressure (depth) to salinity. It also computes seawater density from salinity, temperature, and depth. Results are given in the sigma and delta notations.

Contributors Name: William Broenkow
Address: Moss Landing Marine Laboratories
P.O. Box 223
Moss Landing, CA 95039

Price: $6.00
Number of bytes 3,758

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0029

Software Title: Latent Heat of Vaporization

Mainframe(s): HP-83 & HP-85

Software Description:

This program estimates the latent heat of vaporization of a pure substance by any of three methods: (1) latent heat at the normal boiling point by the Riedel-Plank-Miller equation and at other temperatures by the Watson relation; (2) latent heat versus temperature by the Pitzer Acentric-Factor correlation with the acentric-factor optionally calculated from critical properties; and (3) latent heat versus temperature from the latent heat at the normal boiling point and the Watson relation.

Contributors Name: Edward P. Goffinet, Jr.
Address: 2403 Annwood Drive
Wilmington, DE 19810

Price: $6.00
Number of bytes 4,965

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 500-0030

Software Title: Vapor Pressure Correlation

Mainframe(s): HP-83 & HP-85

Software Description:

This program determines the vapor pressure of a pure substance as a function of temperature or the temperature corresponding to a given vapor pressure using the Antoine, the Riedel-Plank-Miller, or the Harlacher-Braun vapor pressure equation. Published constants can be input directly into any of the three. Constants for the second and third can optionally be estimated from the critical temperature, critical pressure, and normal boiling point of the substance.

Contributors Name: Edward P. Goffinet, Jr.
Address: 2403 Annwood Drive
Wilmington, DE 19810

Price: $6.00
Number of bytes 4,153

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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600 Social / Behavioral Sciences

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 600-0001

Software Title: Natural Selection Experiment

Mainframe(s): HP-83 & HP-85

Software Description:

This program studies a population of pepper moths over a period of 30 years and observes the consequences of altered environmental conditions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,008

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 600-0002

Software Title: Wechsler Memory Scale: TRS Estimation

Mainframe(s): HP-83 & HP-85

Software Description:

This program estimates the total raw score of the Wechsler Memory Scale when one subtest is missing. For example, a blind patient will not be able to do visual reproduction subtest. The method used here is to apply weights, derived from multiple regression, to the remaining subtests and add a constant to estimate the TRS. The weights and constants were derived from a sample of 122 non-brain damaged patients.

Contributors Name: Richard A. Charter
Address: Veterans Administration Medical Center
Psychology Service (116B), 5901 E. Seventh Street
Long Beach, CA 90822

Price: $6.00
Number of bytes 1,714

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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700 Medical Arts / Sciences

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 700-0001

Software Title: Data Tablet Graphic Input

Mainframe(s): HP-83 & HP-85

Software Description:
This program provides scaled graphic data input to the HP-85 using the SUMMAGRAPHICS Bit Pad One data tablet and 4 button cursor. The user can digitize photographs, drawings, and graphs to a resolution of .005 inch. Any rectangular portion of the 11 by 11 inch tablet may be mapped onto the HP-85 graphic display.
Although not provided, the program is easily extendable to save the measured points in an ARRAY as well as on the display. Thus, arbitrarily complex analysis programs can be driven with graphic data from xrays, journals, topographic maps, projections, hand drawings, etc.

Contributors Name: Dave Snyder
Address: 2010 Nelson Road
Scotts Valley, CA 95066

Price: $6.00
Number of bytes 1,000

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: I/O ROM

Memory Options:

Peripherals: 82937A HP-IB Interface, SUMMAGRAPHICS Bit Pad One, 4 button cursor

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800 Home Computing / Games

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0001

Software Title: Blackjack

Mainframe(s): HP-83 & HP-85

Software Description:
This game of 21 (Blackjack) is designed to be played by as many as 6 players. You may play with up to 4 decks of cards. Bets are made before each deal. The table limit is $500. The cards will then be dealt and each player, in turn, plays his hand.
All winnings and losses will be retained as whole dollar amounts. The cards will be shuffled automatically when necessary and the first card in the shuffled deck will be burned. The remaining number of cards are graphically presented at the top of the display. The last card will not be dealt.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,938

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0002

Software Title: Maze Generator

Mainframe(s): HP-83 & HP-85

Software Description:

This program will design and print out a maze which can be up to 44 by 33 units. Each maze is different and has only one path through it.
You may link several mazes of the same dimension in a continuous strip and thereby generate a maze as long as a roll of paper.
The only inputs that you must make are the maze dimensions. After the dimensions are entered, you must wait while the maze is being generated. After the maze is generated, you can choose to copy it or link another maze to it.
The mazes with larger dimensions require significantly more time to generate, but are also much more difficult to solve. If you enjoy finding a path in mazes, this program will generate an endless set of mazes for you to solve.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,039

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0003

Software Title: Birthday Plot

Mainframe(s): HP-83 & HP-85

Software Description:

This program will design your very own birthday plot based on your date of birth. All you have to do is enter your name and birthdate and the computer will generate a pattern based on your birthdate.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,480

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0004

Software Title: Game of Life

Mainframe(s): HP-83 & HP-85

Software Description:

LIFE is a game of births, deaths and survival.

This idea is to put a pattern of cells on the screen and watch how each generation produces births and deaths according to the following rules:
1. Births occur in an empty cell with exactly 3 neighbors. (A neighbor is an occupied cell in one of the eight adjacent positions).
2. Deaths occur in two ways. A cell will die of overpopulation if it has more than 3 neighbors, or it will die of isolation if it has less than 2 neighbors.
3. Each occupied cell survives to the next generation if it has 2 or 3 neighbors.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,707

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0005

Software Title: NIM

Mainframe(s): HP-83 & HP-85

Software Description:

The game of NIM is a classic computer game in which you compete against the computer to see who takes the last star from several piles. In this version, you can specifiy from 1 to 10 piles with from 1 to 25 stars in a pile. You also have the option of allowing the machine to pick the number of piles and the number of stars in each pile.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,280

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0006

Software Title: King

Mainframe(s): HP-83 & HP-85

Software Description:

This game is an economic simulation in which you are in charge of a small country, and must feed the countrymen, plant crops, sell land to industry, and fight pollution. You have an eight-year term and the object is to survive all eight years of your term, keeping as many people happy as you can.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,441

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0007

Software Title: Hunt the Wumpus

Mainframe(s): HP-83 & HP-85

Software Description:

The wumpus lives in a cave of 20 rooms. Each room has 3 tunnels leading to other rooms. (Look at a dodecahedron to see how this works).

HAZARDS:

*Bottomless pits-two rooms have bottomless pits in them. If you go there, you fall into the pit (and lose!)

*Super Bats-two other rooms have super bats. If you go there, a bat grabs you and takes you to some other room at random (which might be troublesome).

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,606

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0008

Software Title: Hangman

Mainframe(s): HP-83 & HP-85

Software Description:

This is the traditional word guessing game in which you try to guess the word before you get "hung". You have the choice of guessing on the computer's words, or having someone else type in a word for you to guess. You can use a data file stored on tape or enter and store your own set of words. A series of dashes will appear on the screen, one dash for each letter in the word. Only the letters A to Z are permitted in the word. All lower case letters will be converted to upper case letters automatically. If the letter you guessed is in the word, it will be filled in everywhere it occurs. If it is not in the word, part of the body will be drawn. If the whole body is drawn (six errors) before you guess the word, you get "hung" and lose. The correct word will then be displayed.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,840

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0009

Software Title: Race

Mainframe(s): HP-83 & HP-85

Software Description:

RACE is a car racing game in which you, the driver, try to get the fastest time while keeping your car on the track. You can move the car left and right, and speed up or slow down.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 3,320

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0010

Software Title: Lander

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates landing a rocketship on the planet of your choice. Any planet or major moon in our solar system is available, with gravitational force and fuel supply varying with each planet. Special function keys control the throttle for your ship.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,919

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0011

Software Title: Race Track

Mainframe(s): HP-83 & HP-85

Software Description:

This race game is played on a randomly generated track which goes across the display from left to right. Up to four contestants can participate. Players take turns inputting acceleration changes and direction changes and the machine updates the position of each racer on the display. The position of the racer is checked to be on the track, finished, and also in the oil slick. When a player initially gets close to a randomly positioned oil slick, the slick is plotted on the display. When a player stops in an oil slick, the machine will automatically take the player's turn using the players current velocity and direction. When a player leaves an oil slick, the velocity and direction are randomly changed for the next turn. When a player runs off the track, the velocity and direction are reset to starting conditions. A penalty of lost turns based on the velocity when a player left the course will be imposed. The program computes the maximum values based on a requested change and rejects moves which would cause spin-out or extreme angle changes. All moves are controlled by use of the special function keys.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,896

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0012

Software Title: Blocklade

Mainframe(s):

Software Description:

Blockade is a video game for the viewer and the participant. The object of the game is to not run off the screen or into either your path or your opponent's path.

This game has an auto running mode and an interactive mode for playing between two people.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,480

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

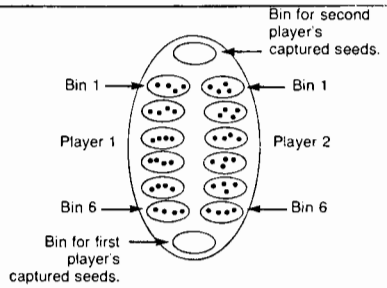
Catalog No.
800-0013

Software
Title: Wari

Mainframe(s):
HP-83 & HP-85

Software Description:

Wari* is a board game which has been played for at least several centuries in various forms throughout Africa. The game is played on a board containing (generally) twelve small pits or bins, and two large pits. Forty-eight beads, seeds, or other counters are moved and captured according to certain rules.
The Wari board is shown at right, set up to begin a game.
*Also known as Man-Kalah, Awari and many other names.



Wari Board at start of game

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,656

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No.
800-0014

Software
Title: Cribbage

Mainframe(s):
HP-83 & HP-85

Software Description:

Cribbage came to America with the colonists from England. This version of the game pits you against the computer. The characteristic cribbage board for scoring is used on the graphics screen.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 12,901

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0015

Software Title: Gomoku

Mainframe(s): HP-83 & HP-85

Software Description:

Gomoku is a very old, yet very simple Japanese game played on a 9 by 9 board. The object is to occupy five adjacent squares in a straight line anywhere on the board. The line may be horizontal, vertical, or diagonal.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,034

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0016

Software Title: Reversi

Mainframe(s): HP-83 & HP-85

Software Description:

Reversi is a game developed in England in the 1880's. It was quite popular in England, but is relatively unknown today. Various forms of the game have been developed since then, but this computer version is based on the original rules of the game.
The rules for Reversi are quite simple, but the strategies involved in the play of the game can be quite complex. The game is designed for play between two people, one person against the machine, or machine versus machine. After specifying the type of game, you must specify the type of opening, either parallel or diagonal.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 14,090

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0017

Software Title: Poker Solitaire

Mainframe(s): HP-83 & HP-85

Software Description:

In Poker Solitaire, you and the computer play a solitaire game using the same cards on separate boards. A single deck of cards is shuffled and the top 25 cards are played one by one onto a 5 by 5 matrix. Each row and column of the matrix is to be scored as a separate poker hand.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,277

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0018

Software Title: Qubic

Mainframe(s): HP-83 & HP-85

Software Description:

This game is tic-tac-toe in a 4x4x4 cube.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 9,768

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0019

Software Title: Biorhythm Comparison

Mainframe(s): HP-83 & HP-85

Software Description:

This program computes the biorhythmic compatibility of two people.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,665

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0020

Software Title: Pro Football

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates a professional football game.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,697

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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Contact your dealer or Hewlett-Packard.

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0021

Software
Title: Radioactive Decay Game

Mainframe(s): HP-83 & HP-85

Software Description:

Simulates the radioactive decay of playing chips with a half-life of 10 minutes. The object is to bet at time T on how many chips are left. You start with $1,000 and stake half of your money on each bet. You select the odds depending on how accurate you think your guess is. The game will end when either you or the computer are broke or the chips run out.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,599

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0022

Software
Title: Hunt the Hurkle

Mainframe(s): HP-83 & HP-85

Software Description:

A hurkle is hiding in a 10 x 10 grid. Try to guess where the hurkle is hiding. Enter your guess as an X,Y coordinate pair. The computer will tell you in which direction to go for the next guess.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,491

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0023

Software Title: Bagels

Mainframe(s): HP-83 & HP-85

Software Description:

Bagels is a number guessing game. The computer will think of a three-digit number. You guess the number and the computer will tell you:

PICO-One digit is in the wrong place
FERMI-One digit is in the right place
BAGELS-No digit is correct

User these clues to formulate your next guess.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,621

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0024

Software Title: Roulette

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates the roulette wheel. The computer will spin the wheel, and you can bet 12 different ways on the outcome. The computer will spin the wheel 10 times, then will ask if you want to spin it another 10 times. If you run out of money, the game will end.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 8,563

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0025

Software Title: Stock Market Game

Mainframe(s): HP-83 & HP-85

Software Description:

This program plays the stock market. You will be given $10,000 and may buy or sell 6 stocks. The stock prices vary randomly, so this is not a true reflection of how the market works. Your portfolio will be printed after each day of trading.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,858

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0026

Software Title: Golf Game

Mainframe(s): HP-83 & HP-85

Software Description:

GOLF simulates an 18-hole championship golf course.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,012

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0027

Software Title: Big Number Multiplication

Mainframe(s): HP-83 & HP-85

Software Description:

This program accepts two input numbers, each up to 500 characters long, and displays their exact product.

Contributors Name: John deLaubenfels
Address: 1492 Campus Drive
Berkeley, CA 94708

Price: $6.00
Number of bytes 4,060

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0028

Software Title: Championship Golf

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates the game of golf. You can choose one of seven actual championship courses. Program simulates real play.

Contributors Name: Dave Vaughn
Address: 3673 NW Terrace Drive
Albany, OR 97321

Price: $6.00
Number of bytes 17,386

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: 16K RAM

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0029

Software Title: Spirograph Simulation

Mainframe(s): HP-83 & HP-85

Software Description:

User may simulate some of the patterns generated in the Kenner "Spirograph" game by varying three parameters in a Hypocycloid solution.

Contributors Name: James Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $6.00
Number of bytes 460

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0030

Software Title: Personal Mailing List

Mainframe(s): HP-83 & HP-85

Software Description:

This program is a personal mailing list system capable of handling up to 100 records consisting of Name, Company Name, Address, City, State, ZIP Code (will handle the new 9-digit ZIP Code), and Telephone number (with area code). Records may be sorted on last name or ZIP Code. Records may be printed with or without phone number. Any field of a record may be edited. A search option permits sequentially searching the records for the first record containing a requested sequence of characters in either the name or company field.

Contributors Name: James Donnelly
Address: 142 NE Powderhorn Dr
Corvallis, OR 97330

Price: $6.00
Number of bytes 4,315

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0031

Software Title: Yahtzee

Mainframe(s): HP-83 & HP-85

Software Description:

Yahtzee* is an HP-85 implementation of the popular dice game with the same name. Procedures, scoring and rules are identical. 1 or 2 may play; the computer does not complete. Players total and dice are represented graphically.

*Copyrighted

Contributors Name: Randy Thompson
Address: 571 NW Witham Drive
Corvallis, OR 97330

Price: $6.00
Number of bytes 5,926

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0032

Software Title: Star Wars

Mainframe(s): HP-83 & HP-85

Software Description:

STAR WARS is a real-time graphics space battle game patterned after the characters and senario created by George Lucas in the movie of the same name.

Contributors Name: Bill Crow
Address: Austin Information Systems
17-01 Pollitt Drive
Fair Lawn, NJ 07410

Price: $6.00
Number of bytes 28,807

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: 82903A 16 K Memory Module

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0033

Software Title: Morse Code Trainer

Mainframe(s): HP-83 & HP-85

Software Description:

This program uses the built-in tone generator in the HP-85 to send International Morse code at any rate up to 30 words/minute. User text may be sent "straight" or automatically formed into standard 5 letter random code groups. The latter capability provides the ability for the user to drill on any selected subset of the alphabet.

The actual speed is computed for every message--note that the actual speed differs from the desired rate to the extent that the average message character differs from a "standard" character--for example, a message of all E's (coded as 1 dit) will be sent in much shorter time than a message of all Ø's (coded as 5 dahs).

Contributors Name: Dave Snyder
Address: 2010 Nelson Road
Scotts Valley, CA 95066

Price: $6.00
Number of bytes 10,000

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0034

Software Title: Maze-Solving Mouse

Mainframe(s): HP-83 & HP-85

Software Description:

This program incorporates the HP Games Pac MAZE program to generate a maze (max dim 32x24). It then finds the solution to the maze by assuming it is being negotiated by a "blind right-turning mouse". The algorithm has the mouse check to the right of his previous direction (ROM function PDIR) to see if there is a maze wall (ROM function BREAD). If there is no wall, he heads in that direction. If there is a wall, 90° is added to PDIR and he checks again. After negotiating the maze, the mouse has left behind a trail of dots that marks the only solution-the mouse removes his trail if he must retreat from a cul-de-sac.

Contributors Name: Alistair B. Fraser
Address: Box 378
Lemont, PA 16851

Price: $6.00
Number of bytes 9,679

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: printer/plotter ROM

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0035

Software Title: Asteroids

Mainframe(s): HP-83 & HP-85

Software Description:

A graphics game. Eight asteroids of various diameters and proportional masses affect the path of a supply capsule you try to launch from your spaceship to the space station. You specify the initial velocity vector using a cursor on the graphics screen. Once you have launched, gravity takes over.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 6,935

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0036

Software Title: Telephone Number Alphabetizer

Mainframe(s): HP-83 & HP-85

Software Description:

Want to turn your phone number into an easy-to-remember word? Run this program for all combinations. If your phone number is 266-7883, this program will print combinations of letters (from your phone dial) that will allow you to tell your friends to dial COM-PUTE, to get in touch with you.

Contributors Name: Howard Cornelsen
Address: 2100 Tanglewilde, No. 227
Houston, TX 77063

Price: $6.00
Number of bytes 3,150

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0037

Software Title: Teaser

Mainframe(s): HP-83 & HP-85

Software Description:

TEASER generates a random pattern of 0's and 1's in a 3x3 matrix, based on a user-supplied seed. By changing one position at a time, the user attempts to generate a pattern as all 1's with a 0 in the center. Each change of a 1 to a 0 changes adjacent cells' contents thus: a) Changing a corner alters the states of the three adjacent positons. b) Changing an edge alters the states of the two adjacent corners. c) Changing the center alters the states of all non-corner locations. In addition, the player can change only 1's to 0's; changing 0's to 1's is disallowed. Keyboard entry of each move is by entering a single digit, 1-9, representing the matrix position analogous to that digit's position on the HP-85's numeric keypad.

Contributors Name: W.H. Cornelsen, Jr.
Address: 2100 Tanglewilde, No. 227
Houston, TX 77063

Price: $6.00
Number of bytes 2,962

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0038

Software Title: Game of Bounce

Mainframe(s): HP-83 & HP-85

Software Description:

This game uses a square ball that can be controlled by three paddles, to bounce off essentially six rows of targets. A row has a maximum of 32 rectangular targets, however, the top and bottom rows alternate between rectangular and triangular targets. A hit target scores points and is eliminated. The targets are renewed at irregular intervals.

Contributors Name: R. B. Goyer
Address: 6725 Laurel Canyon
North Hollywood, CA 91606

Price: $6.00
Number of bytes 12,203

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0039

Software Title: Jump-A Mathematical Game

Mainframe(s): HP-83 & HP-85

Software Description:

JUMP is a game that can be analyzed mathematically. Of course, part of the fun is "trial and error". The program uses binary plotting techniques to "draw" graphic displays on the series 80 CRT. The player may choose from three pairs of "characters" for the CRT display during a game. The player may also choose to have or not to have "sound effects" during the game. At the end of the game a message is displayed according to the relative success of the player. Special sound effects and graphic display reward a perfect score.
NOTE: Contains BASIC and Binary programs.

Contributors Name: Eugene W. Hungate
Address: Elkhart Community Schools
2720 California Road
Elkhart, IN 46514

Price: $18.00*
Number of bytes 11,391

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85
ROMs:
Memory Options: 82903 16K Memory Module
Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0040

Software Title: Certificate Craps

Mainframe(s): HP-83 & HP-85

Software Description:

Certificate Craps is a party game. Players start with $2,500 and try to break the bank. The player that breaks the bank gets a personalized certificate "redeemable" for one free drink at the bar.

Contributors Name: Michael D. Polito and Vincent C. Negro
Address: 376 Hudson Street
New York, NY 10014

Price: $6.00
Number of bytes 7,647

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85
ROMs:
Memory Options:
Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0041

Software Title: Dice Toss Graphics And Statistics

Mainframe(s): HP-83 & HP-85

Software Description:

This program simulates the toss of two dice, shows the results graphically, and keeps a statistical record of the throws.

Contributors Name: William Broenkow
Address: 2935 Sloat Road
Pebble Beach, CA 93953

Price: $6.00
Number of bytes 3,068

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0042

Software Title: Master Mind

Mainframe(s): HP-83 & HP-85

Software Description:

This program is a game of trying to guess a code in a minimum amount of tries.

Contributors Name: Chris Ligtenberg
Address: 800 Loyola Drive
Los Altos, CA 94022

Price: $6.00
Number of bytes 5,929

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0043

Software Title: Budget

Mainframe(s): HP-83 & HP-85

Software Description:

This program will keep a running record of expenditures and output summaries when desired. It will also output the amount remaining in the monthly budget.

Contributors Name: Song Koh
Address: 124 Midland Avenue
Findlay, OH 45840

Price: $6.00
Number of bytes 12,774

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0044

Software Title: The Listmaker

Mainframe(s): HP-83 & HP-85

Software Description:

The Listmaker creates and maintains a file of up to 230 items containing 95 alphanumeric characters. Each item is identified by a 9-digit number which is sorted by the program into ascending sequence. The program is designed for user convenience in applications such as appointment books, To-Do lists, and inventories of items or persons. It is easily convertible to the 16K machine size.

Contributors Name: Harris Schiller
Address: 3942 Murietta Avenue
Sherman Oaks, CA 91423

Price: $6.00
Number of bytes 29,388

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options: 82903A 16K Memory Module

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0045

Software Title: Maiden

Mainframe(s): HP-83 & HP-85

Software Description:

Adventure type game in which object is to rescue the fair maiden from the wicked priest's dungeon.
This program contains a number of data files and must be purchased recorded.
Please add media cost when ordering.
Program is priced at $12.00 due to the extensive amount of documentation required.

Contributors Name: Dick Jarvinen
Address: Hewlett-Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00
Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 800-0046

Software Title: Truth Table Generator

Mainframe(s): HP-83 & HP-85

Software Description:

The program generates a truth table for a logic problem and tests the validity of the conclusion. The binary program ("IMPB") provides the implication function...P(1) implies P(2). The problem may contain up to 10 propositions. The tedium of manually generating a truth table is eliminated. A basic knowledge of logic is necessary.
NOTE: Contains BASIC and Binary programs.

Contributors Name: Robert L. Merritt and Bryan Haynes
Address: Corvallis, OR 97330

Price: $18.00*
Number of bytes 2,609

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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900 Other

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0001

Software Title: BPlot Builder Utility

Mainframe(s): HP-83 & HP-85

Software Description:

Interactive graphics program permits user to easily construct an 8x8 point figure for byte plotting. The program computes all values and allows for error correction and testing. Program functions include cursor movement, point setting and erasure, figure clearing and final printout of results, all with special function key commands. Large byte plots may be assembled by combining successive runs of this program. "On screen creation" is very easy with this program.

Contributors Name: James Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $6.00
Number of bytes 1,961

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0002

Software Title: LORAN-C Position Determination

Mainframe(s): HP-83 & HP-85

Software Description:

Given time delay information from two LORAN-C stations configured as a LORAN triplet (triad), a position fix is determined in latitude and longitude.

Contributors Name: Rex H. Shudde
Address: Naval Postgraduate School
Code 55Su
Monterey, CA 98940

Price: $6.00
Number of bytes 17,111

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0003

Software Title: Copying Discs to Tapes (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

COPYT is a binary program to quickly copy from disc to tape in a serial, record-by-record method. COPYT will copy a program in approximately half the time that the normal copy routine will.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,024

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0004

Software Title: Array Organization and Initialization (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

REDZER is a binary program designed to enhance array manipulation capabilities of the HP-85. An array can be reorganized (redimensioned) or initialized to zero with use of one of the two statements offered.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,152

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0005 ✓

Software Title: Storing and Retrieving Programs in Standard Interchange Format (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

Standard Interchange Format (SIF) is a standard within Hewlett-Packard for formatting programs and data on tape cartridges. This standard format enables you to transfer information to any Hewlett-Packard desktop computer. Included in this program are two binary programs which enable you to store (SAVE) or retrieve (GET) programs in Standard Interchange Format on the Series 80 mainframe.
NOTE: It is necessary to have the equivalent SIF binary programs for the machine you wish to transfer information to.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,280

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

Computer Museum

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0006

Software Title: Storing and Retrieving Data in Standard Interchange Format (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

Standard Interchange Format is a standard within Hewlett-Packard for formatting programs and data on tape cartridges. This standard format enables you to transfer information to any Hewlett-Packard desktop computer. SIF is a binary program which contains three programmable commands designed to store and retrieve data files in Standard Interchange Format.
NOTE: It is necessary to have the equivalent SIF binary programs for the machine you wish to transfer information to.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 896

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0007 ✓

Software Title: Tape Verification and Record Type (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

VFYTYB is a binary program designed for detection of tape errors on program and data files, and determination of data type on data files.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 206

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0008

Software Title: Retrieveing HP-9845A Saved Programs (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

If a program has been saved on the HP-9845A with the SAVE command, it can be entered into the HP-85 by using the GET45 binary program.

NOTE: GET45 is not designed to translate code, but is intended only to help transfer programs from the HP-9845A.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 640

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0009 ✓

Software Title: Converting ROM Statements to Mainframe Statements (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

Even though the option ROMs duplicate many of the Series 80 mainframe statements, programs developed with a ROM are not the same as programs developed without the ROM. In fact, even though it is not always apparent to the user, the ROM and the mainframe speak two entirely different languages.
The UNTRANSLATE statement in the UNTRAN binary program performs the opposite function of the TRANSLATE command in the ROMs. If a program was written with a ROM plugged into the Series 80 mainframe and one uses the program without a ROM, the UNTRANSLATE statement translates any ROM program statements that are compatible with the mainframe.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00
Number of bytes 837

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0010

Software Title: Enhanced String Manipulation(Binary)

Mainframe(s): HP-83 & HP-85

Software Description:
STRNBG is a binary program which contains eight programmable string functions designed to enhance string manipulation. The functions are as follows:

1) Underline
2) Lowercase
3) Repeat
4) Reverse
5) Trim (Deletes leading & trailing blanks from a string.)
6) Rotate
7) Search and Replace
8) Number of occurences

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00
Number of bytes 728

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0011

Software Title: Statistical Functions on an Array (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

STATBN is a binary program containing five highly used statistical calculations, allowing you to compute these values quickly and easily. The values which can be computed are mean, standard deviation of the sample, standard deviation of the population, sum of values, and sum of the squares of values.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis OR 97330

Price: $12.00*
Number of bytes 872

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0012

Software Title: Mathematical Functions (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

MATHBI is a binary program containing nine programmable mathematical functions including hyperbolics, octal to decimal and deciaml to octal conversions, and factorial.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,536

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0013

Software Title: Enhanced BPLOT Capabilities (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

BPLOTP is a binary program designed to enhance the BPLOT capabilities of the computer mainframe. Familiarity with the mainframe BPLOT statement and graphics are essential to using this program.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 384

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0014

Software Title: Audible Beep Control (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

CTRLBP is a binary program designed to control the audible tone generated by your computer.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 176

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0015

Software Title: Graphics Tablet Display (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

TRACK is a binary program designed for use with the Hewlett-Packard 9111A Graphics Tablet. Basically, TRACK uses the CRT as a visual display of the movements of the pen on the tablet. The program can be very useful in generating graphics when used in conjunction with the BREAD funcion in the printer/plotter ROM.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 939

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0016

Software Title: Typing Aids (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

SOFKEY is a binary program designed to return up to 96 characters with the touch of one key. The special function keys are used to retrieve the string that is stored by the user via a program function.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,183

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0017

Software Title: HP-85 Graphics Print Head Capabilities (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

PCOL is a binary program designed to assign the capabilities of the HP-85's graphics screen to the print head (of the internal printer). This program will allow hard copies without the need for using the CRT display first, and then copying from it.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 228

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0018 ✓

Software Title: Graphics Cursor (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

GCURS is a binary program designed to provide graphics cursor capabilities. You should be familiar with the Graphics Section in the Owner's Manual and Programming Guide.

Contributors Name: Hewlett-Packard Co.
Address. 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 797

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0019 ✓

Software Title: Polar and Rectangular Coordiinate Conversions (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

RECPOL is a binary program designed to provide polar and rectangular coordinate conversions.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 413

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0020

Software Title: Enhanced String Input, Immediate-Execute Keys, and Cursor Control (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

LINKEY is a binary program designed to enable you to input any character (including the comma and quotation marks) as a string variable, to define any key on the keyboard as an immediate-execute key (similar in operation to the special function keys), and to move the cursor to any location on the CRT.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 889

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0021 ✓

Software Title: Sorting Groups of Elements of a String (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

SORTB2 is a binary program designed to sort groups of elements of a string. Two sort procedures are available. They both produce the same result, however one of the procedures requires no additional memory to operate.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 432

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0022 ✓

Software Title: Storing and Retrieving Programs as Data (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

Normally, the HP Series 80 computer stores in its own unique internal language. DGTSAV is a binary program designed to enable you to store and retrieve programs as data. When the program is saved as a data file, then the file can be read, modified or rewritten as string data by other programs.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,600

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0023

Software Title: Enhanced CRT, Cursor, and Keyboard Control (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

FORMSB is a binary program designed to enhance control of the CRT, cursor, and keyboard. The functions or expressions offered are:

1)	PAGE	7)	WRITECHAR
2)	KURSOR	8)	KEY1
3)	XPOS	9)	KEY2
4)	YPOS	10)	KEY3
5)	HOME	11)	SETKEY
6)	READCHAR	12)	END KEY

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 651

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0024

Software Title: Programmer Control of the Internal CRT and Keyboard (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

IPBIN is a binary program designed to provide programmer control of the internal CRT and keyboard. The capabilities are intended to make the development of a good terminal-emulator possible. The capabilities provided are also intended to be of general use in CRT control or special keyboard entry or control.

Contributors Name: Hewlett-Packard Co.
Address: 1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00 *
Number of bytes 2,432

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0025

Software Title: Teletype Emulator

Mainframe(s): HP-83 & HP-85

Software Description:

This program allows the HP-85 to act like a simple terminal ("glass-teletype", "dumb terminal").

NOTE: The IPBIN Binary Program (catalog no. 900-0024) is required to run this program.

Contributors Name: Bill Grace
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 9,229

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: I/O ROM

Memory Options:

Peripherals: 82939A Serial Interface Module

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0026

Software Title: Moon & Stick People

Mainframe(s): HP-83 & HP-85

Software Description:

Stick people move around. A moon moves across the sky. A house is built. Eight people go into the house. Just watch and enjoy it. Running time is 23 to 30 minutes or so, it varies.

Contributors Name: R. B. Goyer
Address: 6725 Laurel Canyon
North Hollywood, CA 91606

Price: $6.00
Number of bytes 30,216

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0027

Software Title: MINDOC; A Word Processor

Mainframe(s): HP-83 & HP-85

Software Description:

This program may be used in producing small documents. Text input through the keyboard may be edited in core and then printed in a format which corresponds with the A4 size standard. The page is produced in two strips which may be glued together and photocopied. A page is defined as 34 lines of 64-character text under titles and page number.

NOTE: Because this program includes several data files, it must be purchased recorded.

Contributors Name: J.H. Randall
Address: 16 Hagerhof, Borcherd Street
Stellenbosch, South Africa 7600

Price: $6.00*
Number of bytes 13,424

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0028

Software Title: HP-41 Bar Code Generation Programs

Mainframe(s): HP-83 & HP-85

Software Description:

Three chained programs, "BEGIN", "EDITR", and "CMPILE" produce HP-41 program type bar code. The program "FULFCN" with the data file "41FCN" will produce data type bar code as well as direct execution bar code (complete key phrases). Because the data file is included, this program must be purchased recorded.

NOTE: DOCUMENTATION NOT INCLUDED. CREATING YOUR OWN HP-41 BAR CODE (Part no. 82153-90019) IS AVAILABLE FROM YOUR LOCAL DEALER. SUGGESTED RETAIL $12.50.

Contributors Name: Hewlett-Packard Co.
Address: 1000 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00*
Number of bytes _____

*This program must be recorded. Please add media cost

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer ROM and 82837A HP-IB Interface or I/O ROM and RS232C Serial Interface

Memory Options: 82903A 16K Memory Module

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0029

Software Title: Command File BINARY

Mainframe(s): HP-83 & HP-85

Software Description:

This binary program allows system input to be redirected from the keyboard (normal mode) to a data file where a sequence of commands has been stored as strings.

Contributors Name: Ole Anderson
Address: Hewlett-Packard Company
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1,280

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0030

Software Title: Fast sort of a String Vector & Data Base for Strings (QS & DBS)

Mainframe(s): HP-83 & HP-85

Software Description:

This program allows the user to sort a one-dimensional string vector into either ascending or descending order.

This sort is faster than the minimal storage sort of a string vector (available in this library). But it also requires more memory.

Contributors Name: Federico Molina Almeda
Address: Hewlett-Packard S.A.
Costa Brava, 13
Madrid 34
SPAIN

Price: $6.00
Number of bytes 7,831

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0031

Software Title: Television Channels US

Mainframe(s): HP-83 & HP-85

Software Description:

This program defines the frequency band of any of the 82 U.S. Television Channels (2 through 83), computes reference frequencies in any channel, and recalls the principle contours' field strengths and required mileage separations of the band; all based on the channel number entered.

Contributors Name: William R. Canady
Address: 1916 Fannin Street
Amarillo, TX 79109

Price: $6.00
Number of bytes 1,356

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0032

Software Title: Audio-Visual Synchronizer

Mainframe(s): HP-83 & HP-85

Software Description:

This program outputs audio tones and display data to signal operation of three carousel slide projectors. For example, two (upper/lower) may be controlled by a dissolve unit and the third (top) operated independently. The displayed data is event no. (slide change or audio event), carousel position and seconds to next event.

Contributors Name: James T. Lacey III
Address: 10 Craig Circle
Westford, MA 01886

Price: $6.00
Number of bytes 9,339

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0033

Software Title: MULTIP; Marking Multiple-Choice Text/ Exam Papers

Mainframe(s): HP-83 & HP-85

Software Description:

MULTIP is a program with which to mark multiple-choice test-papers. An alphabetically-sequenced list of the marks (by student name) is produced, along with a summary of the class's performance.

Contributors Name: J. H. Randall
Address: 16 Hagerhof
Borcherd Street
Stellenbosch
South Africa 7600

Price: $6.00
Number of bytes 12,377

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0034

Software Title: Gradebook (+*HISTO)

Mainframe(s): HP-83 & HP-85

Software Description:

STORES: class lists and grades.
ASSIGNS: ID numbers
COMPUTES: totals and grade distributions (grades arranged in descending order with mean and mean plus and minus one standard deviation)- single exams and combined homework and exam grades.
OUTPUTS: exam distribution with histogram; class list with ID, homework and subtotals, combined totals; ID-identified grade distribution of totals with histogram.

Contributors Name: Robert J. Zaworski
Address: 620 NW Witham Drive
Corvallis, OR 97330

Price: $6.00
Number of bytes 13,714

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0035

Software Title: Program Expansion Utility

Mainframe(s): HP-83 & HP-85

Software Description:

EXPAND separates multiple instruction statements into individual statements in a BASIC program. The main intent is to provide a more open structure to a program for ease of 'debugging' or modification. Statement logic is preserved. Multiple instructions after IF statements are left intact.

120 T=49 @ H=SQR(X/T3 *.4) @ G=1.2 and 130 J=21 @ PRINT H/J would be stored as:

```
120 T=49
121 H=SQR(X/T3*.4)
122 G=1.2
130 J=21
131 PRINT H/J
```

NOTE: DQTSAV Binary Program (catalog no. 900-0022) is required for this program.

Contributors Name: James A. Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $15.00
Number of bytes 1,694

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0036 ✓

Software Title: Lists BASIC Programs in Expanded Format

Mainframe(s): HP-83 & HP-85

Software Description:

FORMAT lists BASIC programs on the thermal printer giving each instruction in a numbered statement a new line. This expnaded format makes programs easier to read.

For example:
```
170 FOR J=1 to 24 @ T=Y*X @ H=1
```
would be printed:
```
170 FOR J=1 to 24
    :T=Y*X
    :H=1
```

NOTE: DGTSAV Binary Program (catalog number 900-0022) is required for this program.

Contributors Name: James Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $15.00
Number of bytes 1,244

This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0037

Software Title: Variable Name Cross-Reference for BASIC Programs

Mainframe(s): HP-83 & HP-85

Software Description:

VARREF generates a cross reference table of all variable names in a BASIC program. This is generated by reading a program file stored on tape using the DSAVE binary utility. The cross reference table can be very useful when developing or 'debugging' a large program. Structural analysis of a program can be greatly enhanced using VARREF and the LINREF programs.

NOTE: DGTSAV Binary Program (catalog no. 900-0022) is required for this program.

Contributors Name: James A. Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,945

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0038

Software Title: Line Number Cross-Reference for BASIC Programs

Mainframe(s): HP-83 & HP-85

Software Description:

LINREF generates a cross reference table of all statement references in a BASIC program. This is generated by reading a program file stored on tape using the DSAVE binary utility. The cross reference table can be very useful when developing or 'debugging' a large program. Structure analysis of a program can be greatly enhanced using LINREF and the VARREF programs.

NOTE: DGTSAV Binary Program (catalog no. 900-0022) is required for this program.

Contributors Name: James A. Donnelly
Address: 142 NE Powderhorn Dr.
Corvallis, OR 97330

Price: $6.00
Number of bytes 2,014

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0039 ✓

Software Title: GENFED: A General Purpose File Editor

Mainframe(s): HP-83 & HP-85

Software Description:

A data file editor is an essential requirement for serious use of any computer. GENFED is an attempt to satisfy this requirement. One may examine the contents of a file, modify it, and create a copy.

NOTE: VFYTYB Binary Program (catalog no. 900-0007) is required for this program.

Contributors Name: J.H. Randall
Address: 16 Hagerhof
Borcherd Street
Stellenbosch
South Africa 7600

Price: $6.00
Number of bytes 13,517

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0040

Software Title: HP-83/85 FORTH (FIG-FORTH Model)

Mainframe(s): HP-83 & HP-85

Software Description:

Forth is a computer language that is used for controllers and anywhere else relatively high speed and dense code is required. This version is adapted from the Forth Interest Group's (FIG) Forth Model. Included are an assembler, a Forth decomplier, a string handling package, alpha and graphics CRT control, and others.
NOTE: This program is not designed to teach the user to program in Forth. A manual entitled "Using Forth" is available for purchase through an order form included in the program documentation.

Contributors Name: Larry Woestman, Tom Houser
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $50.00
Number of bytes 12,800* / 28,928

Price includes 5¼" flexible disc

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85
82903A 16K RAM (Optional) *16K

ROMs: MASS STORAGE

Memory Options: program is available, but limited

Peripherals: 829xx Disc Drive

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0041

Software Title: String Arrays and Fast String Manipulation Without Temporary Memory (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

This binary program implements six commands which allow:
1) A string variable to serve as a one-dimensional string array
2) Insertion of characters into or onto a string without using temporary memory (important for long strings)
3) Faster string manipulation

Contributors Name: Mike Steed
Address: Hewlett-Packard Corvallis Div.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 927

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe:

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0042

Software Title: PCOPY (Binary)

Mainframe(s): HP-83 & HP-85

Software Description:

Provide single commands for copy CRT graphics (not ALPHA mode) to either the 82905A printer or printers which use the HP Raster-standard for graphics (i.e., 2631G, 2672G, 2673A, 9876). It also provides a command similar to BREAD which reads vertical column dots from the CRT screen.

Contributors Name: Donn Wahl
Address: Hewlett Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $12.00*
Number of bytes 1322

*This program must be recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0043

Software Title: Screen-Mode Text Editor

Mainframe(s): HP-83 & HP-85

Software Description:

This program allows you to enter text as you would on a typewriter and edit it with the power of a screen-mode text editor. The text can be easily saved on tape or disc and printed on the built-in printer. Files containing up to eight screens of text can be created using this program without a 16K memory module.
NOTE: This program requires IPBIN (catalog no. 900-0024) to run.

Contributors Name: Curtis Adams
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 10,876

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0044

Software Title: Source Comm

Mainframe(s): HP-83 & HP-85

Software Description:

This program makes using The Source straightforward and convenient. It provides local file control, using the soft-keys to access all program features.

NOTE: This program requires IPBIN (catalog no. 900-0024) to run.

Contributors Name: Curtis Adams
Address: Hewlett-Packard Co.
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $6.00
Number of bytes 11,733

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: I/O ROM

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0045

Software Title: Readability

Mainframe(s): HP-83 & HP-85

Software Description:

This program counts off a 100-word passage, then counts syllables and sentences contained therin, and calculates average sentence length and readability as determined by Rudolph Flesch.

Contributors Name: Edward Ball & Samuel Lockhart
Address: Harper & Row, Publishers, Inc.
10 East 53rd Street
New York, NY 10022

Price: $6.00
Number of bytes 7,501

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0046

Software Title: Character Strings to BREAD

Mainframe(s): HP-83 & HP-85

Software Description:

As with the cursor controlkeys when in ALPHA-mode, with keys no. 1 through no. 4 user moves about the GRAPH-display is scaled 1,256,1,192 and all or part of it may be used.
User-supplied X/Y coordinates, corrected for BPLOT-requirements, serve to define that area of the GRAPH-display which after being BREAD will be stored in a tape-file.
To facilitate orientation the above mentioned area will be outlined where appropriate.

Contributors Name: Jim R. Kutschera
Address: Otto Hahn Strasse 5
D 6082 Walldorf
WEST GERMANY

Price: $6.00
Number of bytes 10,424

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0047

Software Title: Bit-Plotter

Mainframe(s): HP-83 & HP-85

Software Description:

This program provides direct control and visual monitoring of each display "dot" or bit position for construction of "BPLOT" graphic displays. User Defined Keys are programmed to generate each line of the display by the commands START, DOT, SPACE, BACK, LOCATE, ERASE, REPEAT and RETURN. The final plot can be converted for retention and subsequent use to a character string using the "BREAD" statement available in the PLOTTER/PRINTER ROM or the Binary Program "BPLOTB" (catalog no. 900-0013, available separately).

Contributors Name: Edward P. Goffinet Jr.
Address: 2403 Annwood Drive
Wilmington, Delaware 19810

Price: $6.00
Number of bytes 4,088

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: PLOTTER/PRINTER or Binary Program "BPLOTB"

Memory Options:

Peripherals:

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0048

Software Title: Alpha-Numeric Sort

Mainframe(s): HP-83 & HP-85

Software Description:

This program sorts a list of alpha-numeric character strings of up to 32 characters each including blanks but exluding punctuation into ascending order with spaces preceding numerals and numerals preceding letters. Upper and lower case letters are treated interchangeably.

Contributors Name: Edward P. Goffinet Jr.
Address: 2403 Annwood Drive
Wilmington, Delaware 19810

Price: $6.00
Number of bytes 4,516

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0049

Software Title: LIF

Mainframe(s): HP-83 & HP-85

Software Description:

Provides LIF type 1 interchange to allow file transfer to 9826, 9642, RTE-7...
The DGTSAV Binary Program (catalog no. 900-0022) is needed to convert 9826 BASIC programs back into Series 80 BASIC, and may be ordered separately.

NOTE: LIF contains both BASIC and Binary programs.

Contributors Name: Andy Rood
Address: Hewlett-Packard
1010 NE Circle Blvd.
Corvallis, OR 97330

Price: $18.00*
Number of bytes _____

*This program must be purchased recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Mass Storage, Printer P1

Memory Options:

Peripherals: 8290x disc (or other, e.g.8")

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0050

Software Title: Daytime

Mainframe(s): HP-83 & HP-85

Software Description:

The program sets the system time and date from user input, then verifies same. Date is in the form DD-MM-YY. Time is input in the form HH:MM:SS; seconds are optional. The primary intent of the program is to be used as part of an AUTOSTart sequence including setting the current time and date. By adding COM and CHAIN statements where indicated this can be accomplished easily.

Contributors Name: Norman R. Dotti
Address: Knorr Associates
Box 218
Butler, NJ 07405

Price: $6.00
Number of bytes 3,594

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0051

Software Title: Creating HP-41 C/CV Bar Code Using an HP-7225A Plotter

Mainframe(s): HP-83 & HP-85

Software Description:

This program translates HP-41 C/CV program instructions into bar codes for use with the HP-82153A Wand.
Instructions are entered through the HP-83 or HP-85 keyboard using an EDITOR program comparable to the HP-41 editor, and are stored on tape or disc. The HP-41 program is then compiled by a COMPILER program, which also plots the bar codes on the HP-7225A Plotter.

NOTE: This program requires Binary Program 900-0023 (FORMSB) to run.

Contributors Name: Hewlett-Packard SA
Address: Meyrin 2 Geneva
Switzerland

Price: $6.00*
Number of bytes _____

*This program must be purchased recorded. Please add media cost.

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs: Plotter/Printer ROM, Mass Storage ROM (opt.)

Memory Options: HP-82903A 16K Memory Module

Peripherals: HP-7225A Plotter, HP-82901 Disc Drive (opt.)

SERIES 80 SOFTWARE

Users' Library
Software Summary

Catalog No. 900-0052

Software Title: Images - A poetry program

Mainframe(s): HP-83 & HP-85

Software Description:

IMAGES generates random-word, free verse poetry in an acceptable sentence structure. It is constructed so as to facilitate vocabulary substitution by the user.

Contributors Name: David Goldberg
Address: Washtenaw Community College
PO Box D-1
Ann Arbor, MI 48106

Price: $6.00
Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83 & HP-85

ROMs:

Memory Options:

Peripherals:

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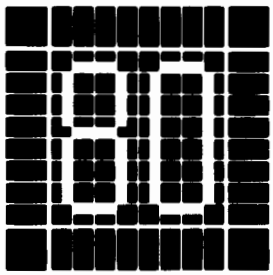
Contact your dealer or Hewlett-Packard.

APPLICATION PACKAGES

SERIES



SOFTWARE

000 Business / Finance

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10008
Application Code: 000-9003
Expiration Date:

Product Name:	Mainframe(s):
GL85-1 GENERAL LEDGER SOFTWARE PACKAGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The package maintains financial records for an individual or small business with a maximum of 200 accounts. It runs on the HP-85 without additional memory.

The package is menu-driven; the functions or operations available to the user are displayed on the CRT, and he enters his choice.

There are two data files; the Ledger file, which contains all of the General Ledger accounts with data for the current month, quarter-to-date, year-to-date, the three previous quarters and last year; and the Journal file, which contains the transactions used to update the Ledger file.

As the Ledger file is updated with current transactions, an activity report is printed showing all of the entries made to each account, the beginning balance and the ending balance. The total debits posted and the total credits posted are also accumulated and printed.

The package prints a Balance Sheet and an Income Statement for the month, quarter and year. A report showing the percent change in the Ledger accounts from quarter to quarter and from last year to this year may also be printed.

Retail Price: $395.00

Company Name: Business Software, Inc.
Contacts: Sandra Wilson

Address: 9105 Belle Grove Place
River Ridge, LA 70123

Telephone: (504) 737-9471

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K Memory Module required

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☒ program modification

Additional Support Information and Pricing:

Will quote price, upon request, for customer training and installation assistance.

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: 29 Page Users Manual

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10008
Application Code: 000-9004
Expiration Date:

Product Name:	Mainframe(s):
AR85-1 ACCOUNTS RECEIVABLE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Accounts Receivable package maintains accounts receivable records for a small business with a maximum of 200 customers. The primary functions of the package are to keep an accurate record of how much money each customer owes and how long the debt has been outstanding. The current accounts receivable balance and net credit sales for the month, quarter, year, and previous year are maintained for each customer. Information pertaining to charges, payments, returns, write-offs, and adjustments is entered at the keyboard and used to update the customer and invoice records.

Reports printed by the package are: Transaction Reports by type and by customer, customer lists by name or by account number, Aged Accounts Receivable, Invoices Outstanding, Accounts Receivable Trial Balance, Customer Statements, Over Credit Limit Report, and Customer Credit Sales Report.

Finance charges, if used, may be entered manually or calculated by the package.

The Accounts Receivable package may be used in conjunction with the General Ledger package to update General Ledger accounts.

Two copies of the program tape are provided.

Retail Price: $395.00

Company Name: Business Software, Inc.
Contacts: Sandra Wilson
Address: 9105 Belle Grove Place
River Ridge, LA 70123
Telephone: (504) 737-9471

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K Memory Module required

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Will quote upon request, prices for customer training or assistance within metropolitan New Orleans area.

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: Users Manual

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

Price for General Ledger and Accounts Receivable packages purchased together -- $650.00

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10018
Application Code: 000-9005
Expiration Date:

Product Name:	Mainframe(s):
GRANT AND CONTRACT ACCOUNT MANAGER	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program permits an individual research grantee or contractor or a small research laboratory that is part of a major institution to maintain constant fiscal control over the grant expenditures in each of 10 or more sub-accounts. After a grant or contract identifier and budget are entered, transactions that debit or credit the various sub-accounts may be entered at any time. A print-out of the entered transactions and a summary statement of the remaining funds in each of the sub-accounts is printed out also. Other segments of the menu controlled program permit recovery of any of the files from the cartridge that stores a particular account. A detailed operating manual and a recorded sample account are included. Outputs showing an initial budget and a statement are shown below. An example set of transactions is included under Additional Information.

TEST ACCT

INITIAL BUDGET
as of SEPTEMBER 1 1980
(Grant period is 12 months)

CATEGORY	SUB-ACCOUNT	AMOUNT
PERSONNEL	0	10,000.00
SERVICES	1	10,000.00
SUPPLIES	2	9,000.00
PERMANENT EQ	3	11,000.00
TRAVEL	4	10,000.00
COMMUNICATIONS	5	10,000.00
INFORMANTS	6	10,000.00
CONSULTANTS	7	10,000.00
INSURANCE	8	9,999.99
MISCELLANEOUS	9	10,000.01
TOTAL DIRECT COST		100,000.00

STATEMENT: TEST ACCT
as of 09/80
starting date: SEPTEMBER 1 1980

CATEGORY	SUB-ACCOUNT	AMOUNT
PERSONNEL	0	8,800.00
SERVICES	1	10,000.00
SUPPLIES	2	8,910.00
PERMANENT EQ	3	11,000.00
TRAVEL	4	9,143.35
COMMUNICATIONS	5	10,000.00
INFORMANTS	6	10,000.00
CONSULTANTS	7	10,000.00
INSURANCE	8	8,748.39
MISCELLANEOUS	9	9,965.01
BALANCE REMAINING		96,566.75

Retail Price: $295.00

Company Name: Psychophysics Laboratory
Contacts: Eugene Galanter
Address: 4300 Atlantic Avenue
Atlantic City, NJ 08401
Telephone: (609) 344-2311

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☐ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☒ program modification

Additional Support Information and Pricing:

Purchase includes all enhancements and modifications for one year.
Documentation is sufficient to permit customer modifications.

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available:

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

TRANSACTIONS: TEST ACCT
for 09/80

SUB	DATE	DESCRIPTION	AMOUNT
0	9/4	E GALANTER	1,200.00
2	9/7	COMP PAPER	90.00
4	9/12	SFO CONF	856.65
8	9/18	LIABILITY	1,251.60
9	9/23	H-P USERS LIB	35.00

NOTE: LIABILITY PREMIUM IS FOR THE FIRST SIX MONTHS OF THE GRANT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10019
Application Code: 000-9006
Expiration Date:

Product Name:	Mainframe(s):
WORLD-WIDE INVESTMENT SYSTEM (REAL ESTATE)	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

WORLD-WIDE INVESTMENT SYSTEM
(REAL ESTATE)

Finally, here is a computerized investment system so easy to use and so efficient in its operation that ten minutes is all it takes to learn to get started, and one minute on the average to do one calculation.

This completely mathematically consistent method of price determination is one of the most professional tools for the practice of investment brokerage. It tells an investor what price should be paid for an investment based on his or her investment expectations. The system is also designed to shorten the time required in making investment decisions, and to help in analyzing buying or selling strategies.

The WORLD-WIDE INVESTMENT SYSTEM has the unique distinction of being a deterministic system which does not ask for any resale price (or any rate of increase of the price) in the determination of the price (asking for a price in order to determine a price defeats the purpose of price determination).

Price in this system depends on the expected future investment return and is determined from all the factors affecting the price, that is, from the cash flows plus the cash from resale; resale prices are determined exactly in the same way as the price is determined.

The economics problem of price determination is solved based on rigorous mathematical concepts. And, it seems that when the correct method of solution is used, the investment system actually becomes easier to use. The WORLD-WIDE INVESTMENT SYSTEM is possibly the only system that can appraise investment properties deterministically.

The following is an actual printer output reduced to 50% of the original size.

```
**WORLD-WIDE INVESTMENT SYSTEM**
          (REAL ESTATE)
INPUT/OUTPUT DEMONSTRATION
SAMPLE APPRAISAL
ALL THE INPUTS
 0  GRS INC= 65000 ,VAC= 2 %,
    EXP= 23000 ,%RENT INCR= 7 %
 1  PRICE(0=TO BE APPRAISED)=
    0
 2  ADV RENT&DEPOSIT= 5416 67
 3  LAND VALUE= 25 % OF PRICE
 4  PERSONAL PROPERTY VALUE=
    2 % OF PRICE
 5  RETURN ON INVEST  AVERAGED
    OVER INV  PERIOD= 18 %
 6  INVESTMENT PERIOD= 4 YRS
 7  INTEREST ON CASH FLOW= 9 %
 8  BROKER'S COMMISSION WHEN
    RESALE= 6 % OF PRICE
 9  CLOSING COST= 1 % OF PRICE
10  DEPRECIABLE LIFE  PERSONAL
    PROPERTY= 4 YRS
11  DEPREC LIFE  REAL P = 30 YRS
12  DEPRECIATION METHOD= 125 %
13  BUYER'S TAX BRACKET= 30 %
    RESALE= 30 %
14  1ST YR FINANCING(1ST LOAN)
    LOAN AS%OF PRICE= 75 %
    INT = 11 5 %, TERM= 30 YRS,
    MO PMT/100,000= 990 3
    LOAN POINTS= 2
    PREPMT PENALTY= 4 8 MOS INT
15  2ND LOAN%OF PRICE= 10 %
    INT = 10 %, TERM= 10 YRS,
    MO PMT/100,000= 833 33
    LOAN POINTS= 0
    PREPMT PENALTY= 0 MOS INT
16  RESALE FINANCING(1ST LOAN)
    LOAN AS%OF PRICE= 75 %
    INT = 11 %, TERM= 30 YRS,
    MO PMT/100,000= 952 34
    LOAN POINTS= 2
    PREPMT PENALTY= 4 8 MOS INT
17  2ND LOAN%OF PRICE= 10 %
    INT = 10 %, TERM= 10 YRS,
    MO PMT/100,000= 833 33
    LOAN POINTS= 0
    PREPMT PENALTY= 0 MOS INT
18  RESALE RETURN= 18 %
COPYRIGHT (C) 1980 BY WORLD-WIDE
INSTITUTE OF VALUATION
*********************************
THE OUTPUTS

THE APPRAISED PRICE=$ 525280

(GRS M)(CAP P)(RETURN)(DOWN PMT)
 8 08     7 7%    17 9%  $  78792

      (LOAN AMOUNT)(MONTHLY PMT)
1ST LOAN     393961       3901 39
2ND LOAN      52528        437 73

RESALE PRICE IN 4 YRS=$ 694368

CASH FLOW PROJECTIONS
 (B4TAX CASH FLO)(A TAX CASH F )
(YEAR)  v  (TAX SHELTER)    v
 1     -11370     28943     -3262
 2      -8142     25964      -764
 3      -5067     22776      1510
 4      -1777     19361      3942
```

Retail Price:
LEASE $2000.00/first year $200.00/later year

Company Name: ALBANY HILL INFO SYSTEMS Contacts: Melvin Cannon

Address: 3254 A Pierce Street
Richmond Annex, CA 94804

Telephone: (415) 525-2270

SYSTEM REQUIREMENTS

Computer Model: HP-85 Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Price:

Documentation Available: 4 Pages (Introduction, Instructions, Example, Documentation) Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

The software is based on very extensive research on the theory of price determination.

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code 10004
Application Code: 000-9007
Expiration Date:

Product Name:	Mainframe(s):
REAL ESTATE INVESTMENT ANALYSIS PAC	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This pac consists of eight programs based on Realtors National Marketing Institute forms:

-Income/Expense Analysis acts as a checklist in developing a projected first year operating statement and determining net operating income.

-Cash Flow Analysis projects the performance of an income property via income, expense, mortgage and tax data. It determines before and after tax cash flows, tax liability, capital gain, sales price and net and initial investment required for a desired return.

-Non-Taxable Entity projects the performance of an income property without considering any tax implications.

-Simple Cash Flow calculates IRR, FMRR and NPV for variable or annuity type cash flows.

-Raw Land Analysis calculates the sales price required to produce a desired yield, both before and after tax, for an unimproved property.

-Lease/Own Analysis provides two approaches in effectively analyzing use of capital.

-Sub-Lease Analysis calculates net present value of a sublessor's leasehold interest given an investor's required yield.

-Exchange Recap functions as a balance sheet for up to a ten-party exchange. It balances equities, determines paper requirements, lists cash and paper in and out, commission and transaction costs and net loan proceeds. Information is listed in a two-column format (has and gets) for each party.

Retail Price: $750.00

Company Name: PALMER BERGE COMPANY, INC. Contacts: John Berge

Address: 1200 Westlake Avenue N., #612
Seattle, WA 98109

Telephone: (206) 284-7610

SYSTEM REQUIREMENTS

	BASE		OPTIONAL
Computer Model:	Series 80	Peripherals:	Plotter/Printer, Mass Storage, I/O roms
Memory:	16K Memory Module		
Operating System:			2631B Printer 7225B Plotter
Other Software:			82901 or 82902 Disc Drive

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Subject to negotiation Price:

Documentation Available: Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code 10028
Application Code: 000-9009
Expiration Date:

Product Name:	Mainframe(s):
ACCOUNTS PAYABLE - FLOPPY DISC	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Accounts Payable software provides a convenient method of generating accounts payable checks while keeping track of the general ledger distribution, month-to-date purchases from each vendor, and year-to-date purchases from each vendor. The system can handle the accounts payable of more than one company by simply storing each company's books on a separate floppy disc.

The Accounts Payable software can accomodate up to 500 vendors in the vendor master file. The software allows the operator to enter up to 1000 pay-distribution records to be entered for each check run. A distribution register is provided which displays the general ledger account number and amount that is distributed to each account. The accounts payable checks are then printed by the computer on continuous checks and the vendor master file is updated. A check register is available to aid in bank reconciliation.

Retail Price: $600.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski

Address: 6449 Franklin Boulevard
Sacramento, CA 95823

Telephone: (916) 421-2405
(916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85 Peripherals: HPIB Cable

Memory: 16K Memory Module
Dual Floppy Disc Drive
Operating System: Printer capable of printing continuous forms
Daisy Chain Cable
Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Price:

Documentation Available: 51 Page manual, Basic language Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9010
Expiration Date:

Product Name:	Mainframe(s):
SYSTEM GENERAL LEDGER - FLOPPY DISC	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The General Ledger software is designed for use by small to medium sized businesses using either cash or accrual accounting methods. The General Ledger system will support multiple companies with each company's data on a separate floppy disc.

The program allows the user to define up to 400 general ledger accounts using any 4-digit account number. The built-in data base will automatically keep the accounts in the proper order. The programs allow up to 4000 line items in journal entries before the general ledger must be updated. This allows journal entries to be accumulated during the month and posted to the general ledger at the end of the month.

The General Ledger software allows a source code to be entered with each journal transaction. When the journal listing is printed, the transactions are grouped and subtotaled by source code. In this manner, a cash receipts journal, cash disbursements journal, expense journal, etc. are provided regardless of the order in which the transactions were entered. A monthly trial balance report is provided in addition to the Profit and Loss Statement and Balance Sheet. These reports may be reprinted as many times as desired. The General Ledger software allows the operator to define all accounts in the chart of accounts. The retained earnings account number is not fixed as it is in many general ledger programs.

Retail Price: $600.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski
Address: 6449 Franklin Boulevard
Sacramento, CA 95823
Telephone: (916) 421-2405 / (916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Memory: 16K Memory Module

Operating System: Mass Storage Rom

Other Software: Printer/Plotter Rom
Dual Floppy Disc Drive
ROM Drawer
HPIB Cable

Peripherals:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At customer's expense. Price:

Documentation Available: 55 Page Manual. Basic Language Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9011
Expiration Date:

Product Name:	Mainframe(s):
ACCOUNTS RECEIVABLE - FLOPPY DISC	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The balance forward accounts receivable program can accomodate 500 customers. Each system will support multiple companies with each company's books on a separate floppy disc.

The Accounts Receivable software allows the entry of invoices, credit and debit memos, and receipts. The system provides journals for each of these input sources before they are posted to the customer accounts. At any time during the month the user may display all current account activity along with the current amount due. The system generates a statement for each account at the end of the month. The transaction file is cleared after the statements have been printed. The system can accomodate up to 5000 transactions per month. Each customer is assigned a three digit account number by the operator. The internal data base keeps the accounts sorted into ascending order and available to the accounts receivable system automatically.

Retail Price: $600.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski
Address: 6449 Franklin Boulevard
Sacramento, CA 95823
Telephone: (916) 421-2405 / (916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Memory: 16K Memory Module
ROM Drawer
Mass Storage Rom
Printer/Plotter Rom

Operating System: Dual Floppy Disc Drive

Other Software: HPIB Cable

Peripherals:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Training program available at Customer expense. Price:

Documentation Available: 62 Page Manual. Basic Language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code 000-9012
Expiration Date:

Product Name:	Mainframe(s):
INVENTORY CONTROL - FLOPPY DISC	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Inventory Control software can track up to 1500 inventory items per disc. The programs maintain the item number, description, price, cost, warehouse location, reorder point, quantity on hand, date of last purchase, period-to-date sales activity, and year-to-date sales activity. Since the programs allow more than one floppy disc to be used, an infinite number of inventory items may be maintained if multiple discs are used. The programs allow the operator to recall any inventory item to the CRT screen so that the data may be reviewed. Reports such as an inventory receiving journal, inventory sold journal, inventory reorder listing, and sales activity report are available on demand.

The Inventory Control software allows inventory items of up to 10 alpha-numeric characters to be assigned to each item. The item description may be up to 25 characters in length.

Computer Museum

Retail Price: $600.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski
Address: 6449 Franklin Boulevard
Sacramento, CA 94823
Telephone: (916) 421-2405
(916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Peripherals:

Memory: 16K Memory Module
ROM Drawer

Operating System: Mass Storage Rom
Printer/Plotter Rom

Other Software: Dual Floppy Disc Drive
HPIB Cable

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Europe (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ South Africa
- ☐ Far East (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☐ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer Expense.

Price:

Documentation Available: 56 Page Manual. Basic Language.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code 10028
Application Code: 000-9013
Expiration Date:

Product Name:	Mainframe(s):
PAYROLL - FLOPPY DISC	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Payroll software will allow up to 200 employees per year to be processed. The software generates quarterly and yearly reports required for government reporting. The system is capable of supporting more than one company by simply using a separate floppy disc for each company.

The payroll system allows the operator to assign three-digit account numbers to each employee for identification. The programs automatically keep track of the employees using the built-in data base programs.

The Payroll software can handle both computer-generated, manual, and voided checks. The programs allow the entry of up to 1600 individual employee timesheets. These timesheets are grouped by employee during the edit register printing so that only one automatic check is produced for each employee. The programs then produce the employee payroll checks on continuous form checks and update the employee master files. These employee master files are used to print the end-of-quarter reports, and end-of-year reports. The W-2 forms are also printed on continuous forms.

Retail Price: $600.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski

Address: 6449 Franklin Boulevard
Sacramento, CA 95823

Telephone: (916) 421-2405
(916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Memory: 16K Memory Module

Operating System: ROM Drawer

Other Software: Printer/Plotter Rom

Peripherals: Mass Storage Rom
Dual Floppy Disc Drive
HPIB Cable
Printer capable of printing on continuous forms
Daisy Chain Cable

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
XX U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Expense. Price:

Documentation Available: 91 Page Manual. Basic Language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9014
Expiration Date:

Product Name:	Mainframe(s):
ACCOUNTS PAYABLE - TAPE CARTRIDGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Handles up to 150 vendors and provides General Ledger breakout by account number. Summarizes all vendor invoices so as to produce only one check per vendor. Also provides month-to-date and year-to-date purchase analysis by vendor. Automatic check printing in continuous form; requires external printer.

Retail Price: $500.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski

Address: 6449 Franklin Boulevard
Sacramento, CA 94823

Telephone: (916)421-2405
(916)421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-85 Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Expense. Price:

Documentation Available: 46 Page Manual. Basic language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9015
Expiration Date:

Product Name:	Mainframe(s):
SYSTEM GENERAL LEDGER - TAPE CARTRIDGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

Handles 200 accounts and 2000 transactions per posting. Includes Balance Sheet and Profit and Loss Statement with complete audit trail of General Ledger transactions. Profit and Loss Statement shows current period and year-to-date activity. General Ledger postings are summarized by source.

Retail Price: $500.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski

Address: 6449 Franklin Boulevard
Sacramento, CA 95823

Telephone: (916) 421-2405
(916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Europe (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ South Africa
- ☐ Far East (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☐ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Expense.

Price:

Documentation Available: 50 Page Manual. Basic Language.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9016
Expiration Date:

Product Name:	Mainframe(s):
BALANCE FORWARD ACCOUNTS RECEIVABLE - TAPE CARTRIDGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Handles 150 customers and 2000 transactions per month. Prints billing statements, Accounts Receivable aging schedule and itemized Accounts Receivables for the current period. Allows on-line customer inquiries in current month.

Retail Price: $500.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski
Address: 6449 Franklin Boulevard
Sacramento, CA 94823
Telephone: (916) 421-2405 / (916) 421-2407

SYSTEM REQUIREMENTS

Computer Model: HP-85 Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

XX phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Request. Price:

Documentation Available: 57 Page Manual. Basic Language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

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RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9017
Expiration Date:

Product Name:	Mainframe(s):
INVENTORY CONTROL - TAPE CARTRIDGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Keeps track of 500 parts per tape. Provides activity reports by period and warns user of parts that have fallen below critical point. Produces suggested reorder report from stored inventory activity data and End-of-Quantity reports.

Retail Price: $500.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski

Address: 6449 Franklin Boulevard
Sacramento, CA 95823

Telephone: (916) 421- 2405
(916) 421- 2407

SYSTEM REQUIREMENTS

Computer Model: HP-85 Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☐ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Expense Price:

Documentation Available: 51 Page Manual. Basic Language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 000-9018
Expiration Date:

Product Name:	Mainframe(s):
PAYROLL - TAPE CARTRIDGE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Handles 50 employees. Calculates gross pay, withholding taxes and deductions for hourly and salary payroll. Provides quarter-to-date recaps for government reporting. Prints W-2's at year end with external printer.

Retail Price: $500.00

Company Name: NORTHWEST SOFTWARE, INC.
Contacts: Debora Slivinski
Address: 6449 Franklin Boulevard
Sacramento, CA 95823
Telephone:

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: At Customer's Expense. Price:

Documentation Available: 86 Page Manual. Basic Language. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10034
Application Code: 000-9019
Expiration Date:

Product Name:	Mainframe(s):
COSAC: Cost Accounting and Predicting	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

COSAC is a powerful job costing and predicting program applicable to manufacturing, engineering, contracting, service organizations, and generally anyone needing to follow costs on a job-by-job basis.

Overview Reports Presents - on a minimum amount of paper - the current position relative to budget of all jobs as well as completion percentage and production units (hours, drawings, gallons, widgets, etc.) expended.

Productivity Reports Shows the billable vs. non-billable activity of all of your people and machines. Data is presented in dollars and percent.

Cost Detail sheets Indicates the current financial status of each job. They tell you:

- Accumulated cost of each job.
- Cost relative to job's budget.
- Average Cost per production hour.
- Ratio of billable amount to production cost.
- Prediction of time and resources remaining to complete job on budget.
- Cost developed during current accounting period for each job.
- Projected overrun or underrun in dollars and percent.
- Average cost per production unit (user definable).

Other Reports Includes job lists, cost category lists, employee lists.

Vertically Compatible With our accounting system (available 4th quarter 1981) which is an order invoicing type system that handles work in progress and accounts receivable.

COSAC Handles 144 different jobs, 99 different employees and/or machines, and 20 different cost categories. User can insert a cost for each category, each entry, or allow the machine to default to a user defined value.

Available now.

Retail Price: $495.00

Company Name: GOLDEN STATE BUSINESS SYSTEMS
Contacts: Jerry Liguori
Address: 1910 P Street
Sacramento, CA 95814
Telephone: (916) 441-2917

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Peripherals:

Memory: 16K Memory Module
Printer/Plotter Rom

Operating System: ROM Drawer
Disk optional

Other Software: 80 column printer required

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Customer location charges time and materials from Sacramento, CA. $400.00 per day, plus first class air transportation.

Price:

Documentation Available: 70 Page Manual with complete setup, use, and application data.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

Tape or disk based versions available. (Please specify)

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10034
Application Code: 000-9020
Expiration Date:

Product Name:	Mainframe(s):
THE ACCOUNTS JOURNAL™: TAJ™I	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

TAJ™ is completely INTEGRATED. All journals are automatically updated at the instant a transaction is posted. **TAJ™** responds to English commands, too- no more confusing "menus" and codes. You enter a simple English command and **TAJ™** does what it is told. For example, to get a list of your customers you simply type the command "LIST CUSTOMERS". Further, disregard any reservations about the size of the HP Series 80 CRT. Since **TAJ™** simply asks for a "COMMAND:", and you, as the operator, simply type a one line instruction onto the CRT (such as "LIST CUSTOMERS"), screen size becomes irrelevent.. **TAJ™** only needs one line !!!

1 Accounts Receivable
- Aged Receivable Report
- Itemized Transactions
- Six Digit Invoice Numbers
- Customer Edit and Review

2 Accounts Payable
- Aged Payable Report
- Vendor Edit and Review
- Itemized Vendor Transactions
- Automatic Vendor Numbers

3 General Ledger
- Transactions Report
- Trial Balance
- Audit Trail
- MTD and YTD Balance
- Financial Reports

4 Payroll
- MTD,QTD,YTD Data
- Quarterly Reports
- Multiple Pay Period
- Salaried or Hourly

*"The Accounts Journal" and "TAJ" are Trademarks of Production Data Systems, Sacramento California

Retail Price: $1500.00

Company Name: GOLDEN STATE BUSINESS SYSTEMS
Contacts: Jerry Liguori
Address: 1910 P Street
Sacramento, CA 95814
Telephone: (916) 441-2917

SYSTEM REQUIREMENTS

Computer Model: HP83/HP85 Peripherals:

Memory: 16K Memory Module
Mass Storage Rom

Operating System: Plotter/Printer Rom

Other Software: By using the TAJ "SET PRINTER" command, any printer and HP supported interface will do.

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Price:
See your local TAJ Authorized Dealer for details.

Documentation Available: 102 Page operating manual. It describes Price:
the "Start up procedure", hardware considerations, examples
of all reports, and complete tutorial explanations of commands.

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

TAJ is available in three hardware configurations:

(1) HP-85 with Single Disc - Programs on tape, Data on disc.

(2) HP-85 with Dual Disc - Programs on disc, Data on disc.

(3) HP-83 with Dual Disc - Programs on disc, Data on disc.

With the data stored on a separate media than the programs, multiple data discs can be used while the end user only has to purchase the programs once. This is a particular advantage to bookkeeping and accounting services as well as end users who are pursuing more than one business venture. TAJ also has a BACKUP command that allows the user to make copies of the data disc at the end of the month.

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10034
Application Code: 000-9021
Expiration Date:

Product Name:	Mainframe(s):
THE ACCOUNTS JOURNAL™: TAJ™ II	HP-83/HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Integrated Accounting for ENGINEERS. **TAJ™ II** operates with the same simplicity as **TAJ™ I. TAJ™ II** has a different kind of payroll. **TAJ™ II** has Job Costing that allows the Engineer to specify not only how many hours each employee worked, but on which jobs. **TAJ™ II**'s Job Costing also allows the Engineer to break down this time further into "Cost Centers" (i.e. Surveying, Structural Design, Mapping, etc.). Your own job numbers (six digits) can be assigned to each job. Vacation time requirements for union employees is also taken care of automatically. In addition to these, and the standard Payroll features of **TAJ™ I**, **TAJ™ II** also includes:

1 Accounts Receivable
- Aged Receivable Report
- Itemized Transactions
- Six Digit Invoice Numbers
- Customer Edit and Review

2 Accounts Payable
- Aged Payable Report
- Vendor Edit and Review
- Itemized Vendor Transactions
- Automatic Vendor Numbers

3 General
- Transactions Report
- Trial Balance
- Audit Trail
- MTD and YTD Balance
- Financial Reports

4 Job Costing
- Multiple Job Detail Reports
- To Date Received/Receivable
- To Date Billed/Billable
- MTD/YTD Cost Center Reports

*"The Accounts Journal" and "TAJ" are Trademarks of Production Data Systems, Sacramento California

Retail Price: $1500.00

Company Name: GOLDEN STATE BUSINESS SYSTEMS
Contacts: Jerry Liguori
Address: 1910 P Street
Sacramento, CA 95814
Telephone: (916) 441-2917

SYSTEM REQUIREMENTS

Computer Model: HP-83/HP-85

Peripherals:

Memory: 16K Memory Module
Mass Storage Rom
Printer/Plotter Rom

Operating System:

Other Software: By using the TAJ "SET PRINTER" command, any printer and HP supported interface will do.

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Since we are always enhancing TAJ, end user comments are welcome.

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: 102 Page Operating Manual.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

TAJ is available in three hardware configurations:

(1) HP-85 with Single Disc - Programs on tape, Data on disc.

(2) HP-85 with Dual Disc - Programs on disc, Data on disc.

(3) HP-83 with Dual Disc - Programs on disc, Data on disc.

With the data stored on a separate media than the programs, multiple data discs can be used while the end user only has to purchase the programs once. This is a particular advantage to bookkeeping and accounting services as well as end users who are pursuing more than one business venture. TAJ also has a BACKUP command that allows the user to make copies of the data disc at the end of the month.

RESPONSIBILITIES STATEMENT

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Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10046
Application Code: 000-9022
Expiration Date:

Product Name:	Mainframe(s):
NICA 1 REAL ESTATE ANALYSIS	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program is a simple analytical tool for use by real estate professionals and investors alike. Given thirty three independent data inputs it produces mortgage details, cash flow and income statements for five years, a summary of after tax cash flows, I.R.R. computations, and a sales summary showing capital gains tax payments including recapture tax (if accelerated depreciation is used).

Provision is also made for entering corporate name, client name, date, and for changing variables and individual numbering of each run of a report where a variable is altered.

Retail Price: $45.00

Company Name: REALCOMPU, INC.
Contacts: Michael Williams, Gene Nomicos
Address: 252 North Washington Street, Falls Church, Virginia 22046
Telephone: (703) 237-0553

SYSTEM REQUIREMENTS

Computer Model: HP-85

Memory: 16K Memory Module

Operating System: Printer/Plotter Rom
100 Column Printer

Peripherals:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: Users manual.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10046
Application Code: 000-9023
Expiration Date:

Product Name:	Mainframe(s):
NICA 2 REAL ESTATE ANALYSIS	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program is a simple analytical tool for use by real estate professionals and investors alike. Given thirty three independent data inputs, it produces mortgage details, cash flow and income statements for ten years, a summary of after tax cash flows, I.R.R. computations, F.M.R.R. (with safe rate and appropriate rate), and a sales summary showing capital gains tax payments including recapture tax (if accelerated depreciation is used). Cross over to straight line from accelerated depreciation is automatic, ballooning of first mortgage is optional.

Provision is also made for entering corporate name, client name, date, and for changing variables and individual numbering of each run of a report where a variable is altered.

The new tax laws (August, 1981), incorporated "A.C.R.S." This is now an option built into the Nica 2 menu. The summary of sales includes revised tax computations if this option is selected.

Retail Price: $65.00

Company Name: REALCOMPU, INC.
Contacts: Michael Williams
Gene Nomicos

Address: 252 North Washington Street
Falls Church, Virginia 22046

Telephone: (703) 237-0553

SYSTEM REQUIREMENTS

Computer Model: HP-85

Memory: 16K Memory Module

Operating System: Printer/Plotter Rom
100 Column Printer

Peripherals:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: Users Manual.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10049
Application Code: 000-9024
Expiration Date:

Product Name:	Mainframe(s):
Data Flex Payroll	HP-83A & HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

Complete Payroll package for HP-83A and HP-85A computers. Includes hourly and salaried employees, Automatic, Manual, and Void checks, MTD payroll report, QTD payroll report, YTD payroll report, Tax Bracket report, Job Cost report (by job, by item), Check Printing, Check Register, W-2 printing. Reports formatted for 80 column printer. Capable of processing 200 employees total per year, up to 1600 timesheets per payroll cycle. Can be used for Weekly, Bi-Weekly, Semi-Monthly or Monthly payroll cycle. EIC Tax Capability. Variable Tax Witholding Tables. Variable overtime rate, Variable Employer Burden Rate. Automatic interface to Data-Flex Job Cost System (available October, 1981.) Yearly updates available.

Retail Price: $750.00

Company Name: Racing Services, Inc.
Address: 1555 River Park Drive #213
Sacramento, CA 95815

Telephone: (916) 929-1517

Contacts: Norm Champ

SYSTEM REQUIREMENTS

Computer Model: HP-83A & HP-85A

Peripherals: * SEE BELOW

Memory: 16K Memory Module 82903A
Mass Storage ROM 00085-15005 and Printer/Plotter ROM 00085-15002
Operating System:

Other Software:
** 5¼" Dual Floppy Disc Drive 82901M, 80 Column Printer with appropriate interface (82905A or 82905B printer, HPIB Interface Module 82937A)

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:
Program modification available at an hourly or straight bid.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Available at extra cost - call for price Price:

Documentation Available: 102 page manual with a system flowchart and a complete set of sample reports. The manual gives step by step instructions on the processing of a payroll. Price:
Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

Program is also available on an 8 inch floppy disc.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10033
Application Code: 000-9025
Expiration Date:

Product Name:	Mainframe(s):
Financial Accounting Pac	HP-83 & HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Financial Accounting Pac is a system of fully interactive programs that provide a General Ledger, General Ledger Detail by account, General Journal, Balance Sheet, Income Statement, Accounts Payable Journal, Accounts Payable Subsidiary Ledger, Accounts Receivable Journal, Accounts Receivable Subsidiary Ledger, Accounts Payable Aging, Accounts Receivable Aging as well as "on line" customer and vendor account information.

The financial accounting system will take full advantage of the HP-83 & HP-85 Autostart feature. All programs are controlled by a master menu, and all functions are controlled by "softkeys". A first-time user can easily set up general ledger, customer and vendor accounts by following computer prompts. Data files for a particular business are kept on a single disc. The accounts payable and accounts receivable subsidiary ledgers will allow up to 500 open invoices at one time. In addition, a "Query" function allows the user to view customer or vendor account information at any time. The invoice records include both outstanding balance and original invoice balance in order to easily keep abreast of partial payments. Overpayments and customer deposits on sales or company deposits on sales or company deposits on purchases are easily handled. Reports include accounts receivable aging, accounts payable aging, vendors and open invoices, customers and open invoices, customer accounts and vendor accounts.

The Financial Accounting Pac allows the generation of a trial balance, income statement (profit and loss), general ledger detail, general journal, account payable and account receivable report, etc. at any time. Month end and year end updates are performed by two separate programs to reduce the chance of unintentional updates by novice operators. The user selects the names for the general ledger accounts. The accounting system is designed for an office environment, and inexperienced operators. All entries to the program are checked for "reasonableness" in an effort to screen out inappropriate entries. All transactions are recorded and may be printed at any time in order to check entries.

The Financial Accounting Pac will allow 300 customer and 300 vendor accounts. The general journal will hold 2,000 transactions before the user must perform an update.

Retail Price: $895.00

Company Name: Profit Management Systems, Inc.
Contacts: Gary Goelkel
Address: 723 115th Avenue North
St. Petersburg, FL 33702
Telephone: (813) 577-1560

SYSTEM REQUIREMENTS

Computer Model: HP-83 & HP-85

Peripherals: * See Below

Memory: 82903A 16K RAM

Operating System: 15001 Mass Storage, 15002 Plotter/Printer

Other Software:

* HP-IB Interface, 829XX Master 5¼" Flexible Disc Drive or 9895A 8" Flexible Disc Drive, External Impact Printer HP2631B or HP82905A

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Available on request. Charge, if any, will be quoted upon receipt of desired specifications.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Provided at extra charge. Call or write for price quote.

Price:

Documentation Available:

Price:

Documentation Available in other languages:

Spanish

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

The Financial Accounting Pac will fully interact with soon to be released versions of Payroll and Inventory. All of the programs will use the same data base and be controlled by a common main menu. The use of multiple programs is transparent to the user.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10018
Application Code: 000-9026
Expiration Date:

Product Name:	Mainframe(s):
VENDOR FILES MANAGER	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

You can maintain a directory of 40 vendors, each keyed to a file that contains pertinent information on invoices paid to them. Each vendor's invoice file records the invoice date, one of 26 account codes to indicate the account that paid it, a 15 character descriptor of the invoice content, and the amount paid. When a vendor invoice file is printed, the total amount paid to that vendor is also calculated and printed. Each vendor file can accomodate up to 100 invoices. The vendor directory, the master program, and the 40 vendor files fill one cartridge.

This program is a useful complement to our Accounts Manager (program number 000-90005), especially when more than a single source account is maintained.

V E N D O R F I L E S

```
FILE # 3                    HP-80
       HEWLETT PACKARD CORP.
       1000 N.E. CIRCLE BLVD
       CORVALLIS OR 97330
       503 757-2000

FILE # 4                    CCS
       CHILDREN'S COMPUTER
       21 WEST 86TH ST.
       NEW YORK NY 10024
       212 580-1335

FILE # 5                    COMSUP
       COMPUTER SUPPLIES
       P.O.BOX 60008
       SUNNYVALE CA 94088
       OK
```

```
FILE # 3                    HP-80
       HEWLETT PACKARD CORP.
       1000 N.E. CIRCLE BLVD.
       CORVALLIS OR 97330
       503 757-2000

  VENDOR INVOICE FILE 'HP-80'
 DATE  ID PRODUCT/SERVICE   AMOUNT
--------------------------------
082181 C DISK DRIVE        2500.00
082581 P PRINTER HEAD        31.70
090381 G MATRIX PRINTER     945.00
090581 U HP-83             2295.00
091181 P VISICALC +         195.00
091281 P 8" DISK DRIVE     6500.00

TOTAL SPENT               12,466.70
```

Retail Price: $195.00

Company Name: PSYCHOPHYSICS LABORATORY
Contacts: Dr. Eugene Galanter
Address: 4300 Atlantic Avenue
Atlantic City, NJ 08401
Telephone: (609) 344-2311

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☐ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Purchase includes all enhancements and modifications for one year.
Documentation is sufficient to permit customer modifications if desired.

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available:

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10045
Application Code: 000-9027
Expiration Date:

Product Name:	Mainframe(s):
CRIBS - Client Record Index and Billing System	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

CRIBS performs four major functions: recording of client case information, selective retrieval of this information, billing for all activities recorded, and posting of bills and payments for entry in the firm's own accounting system. In addition, the firm can enter a table of standardized rate codes for use in billing, can assign passwords to its personnel for security, and can use access codes to restrict the use of certain functions and the accessibility of certain information.

There is no limit on the number of clients that CRIBS can handle, since each client's records are maintained on a separate tape cartridge. There is also no limit to the amount of information that can be recorded for each client, since each tape will hold up to 400 entries and any number of continuation tapes may be used for each client.

CRIBS is menu driven (presenting the user with a list of the functions or subfunctions available to him) and it prompts the user to enter all required information, so no memorization and virtually no training is needed to use the system.

CRIBS is intended to provide complete summaries of all actions performed for clients and an index of the contents of client files, as well as more complete timekeeping and more flexible billing than is presently available to most firms. Because of the low cost of the CRIBS system in comparison to other law office systems and because CRIBS does not require a trained operator, it is affordable for even the very small law firm.

Retail Price: $1700.00

Company Name: APPLIED MICROCOMPUTER

Address: Box 150, Route 41
Silver Lake, NH 03875

Telephone: (603) 367-8004

Contacts: Peter Smart
Judith Reardon

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Europe (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ South Africa
- ☐ Far East (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

Additional literature on CRIBS is available upon request.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Seminars available at customer expense. Price:

Documentation Available: 80 Page Manual supplied with package. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

For software security and reliability, program listings are not available to customers and program is secured to prevent copying and listing. Program enhancements will be offered to previous customers at reduced rate.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10004
Application Code: 000-9028
Expiration Date:

Product Name:	Mainframe(s):
REAL ESTATE FINANCE	Series 80

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Real Estate Finance Pac has been designed to provide the user with immediate solutions to the analysis of various financing instruments and investment alternatives. The pac contains eight programs:

-Wraparound Mortgage calculates yield to the contract vendor and/or lender of a wraparound mortgage. Given data on existing mortgages, the lender/vendor's desired yield and the wrap data, the program will determine IRR and suggest precise adjustments to PV, PMT or FV in order to achieve the desired yield.

-Graduated Payment Mortgage computes the schedule of payments necessary to amortize a graduated payment mortgage given the mortgage term, rate and loan amount, when the graduations occur and the percentage increase.

-Variable Payment Financing enables the user to incorporate many levels of payments (including partial balloon payments) into a loan payment schedule and allows the user to solve for final payment, number of payments or balance.

-Lender Participation enables the user to quickly determine cash flows and yield to the lender in a participation financing situation.

-Alternative Investments/FMRR Analysis provides the user with a method of adjusting investments in which there is a disparity in initial investments and/or holding periods; determines IRR, adjusted FMRR and Accumulated Wealth for each investment.

-Amortization and Constant Principal Schedules generates schedules for amortized (equal payment) and constant principal payment loans.

Computer Museum

Retail Price: $750.00

Company Name: PALMER BERGE COMPANY
Contacts: John Berge
Address: 1200 Westlake Avenue N., #612
Seattle, WA 98109
Telephone: (206) 284-7610
(800) 426-2135

SYSTEM REQUIREMENTS

Computer Model: Series 80 — Peripherals:

Memory: 16K Memory Module required

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☒ program modification fee basis

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Price:

Documentation Available: User instruction manual included in pac. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Printed in U.S.A. 8/81 5953-0646

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Financial Decisions Application Pac	Mainframe(s): HP-83/85

Software Description: The Financial Decisions Pac can be used with the Series 80 Computer to evaluate a wide variety of financial alternatives. Included in the pac are program descriptions, user instructions, and example problems. All programs contain HELP sections which provide handy key definition references, and either special GUIDE keys, or a set of program guidelines which will explain unique or potentially difficult concepts in specific sections. The pac also includes a section explaining the basic concepts of cash flow.

There are eight programs in the Financial Decisions Application Pac:

- Compound Interest & Loan Amortization, solves for any of the five standard compound variables and generates loan amortization schedules.
- Discounted Cash Flow Analysis calculates IRR, NPV and FMRR.
- Depreciation generates annual schedules for straignt line, sum-of-the-years'-digits and variable rate declining balance depreciation methods with a graphics option.
- Simple Interest and Interest Conversions, given any three of the four standard interest variables, solves for the fourth.
- Bonds and Notes computes price or yield for bonds and notes.
- Break-Even Analysis solves for any of the five variables in a break-even analysis, given the other four, with a graphics option.
- Odd Days Interest computes the APR and the payment amounts for single advance regular payment transactions.

With the Financial Decisions Pac, user knowledge of computer programming is unnecessary. The programs are complete, friendly and well documented, allowing the user to concentrate on financial analysis rather than programming.

Price: $95.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

Disclaimer: HP MAKES NO EXPRESS OR IMPLIED WARRANTY WITH REGARD TO THE PROGRAM MATERIAL OFFERED OR ITS MERCHANTABILITY OR ITS FITNESS FOR ANY PARTICULAR PURPOSE. THE PROGRAM MATERIAL IS MADE AVAILABLE SOLELY ON AN "AS IS" BASIS, AND THE ENTIRE RISK AS TO ITS QUALITY AND PERFORMANCE IS WITH THE USER. SHOULD THE PROGRAM MATERIAL PROVE DEFECTIVE, THE USER (AND NOT HP) SHALL BEAR THE ENTIRE COST OF ALL NECESSARY CORRECTIONS AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. HP SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE FURNISHING, USE OR PERFORMANCE OF THE PROGRAM MATERIAL.

Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13004

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Linear Programming Application Pac	Mainframe(s): HP-83/85

Software Description: The Linear Programming Pac provides a simple and convenient means of optimizing linear programming models. It has been designed for use in many different industries because the format of the input and output has not been tailored or structured for any particular application.

The maximum problem size the LP Pac can handle depends on how much read/write memory (RAM) is available. Two versions of the program are recorded on both tape cartridge and disc. The first requires 16K bytes of RAM; the second, 32K bytes.

The print section of the program allows the user to print the data on a printer. The printout can be used as a check on the data entered or as a hard-copy record of the problem. If errors have been made during problem entry, the modify routine provides a simple way to make corrections. It also allows the user to create essentially new problems by adding or deleting constraints from a previously created problem.

The solve routine performs the optimization using a modified simplex method, then prints the solution and, if desired, a sensitivity analysis. The tableau, which is used to provide a beginning solution in optimizing the problem, will show not only the variables which have been entered, but also the slack, surplus, and artificial variables. The system automatically computes these variables in order to convert the inequalities to equalities. After the optimization, the system will automatically print out the basis and solution variables, including the dual variables, and indicate both the value of the objective function and the number of iterations required.

Finally, the LP system will provide a sensitivity analysis to determine the range for variables to stay in or out of the basis. The system also provides the critical level of the constraint values.

Price: $95.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13011

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Financial Decisions Application Pac - German	Mainframe(s): HP-83/85

Software Description: The Financial Decisions Pac can be used with the Series 80 Computer to evaluate a wide variety of financial alternatives. Included in the pac are program descriptions, user instructions, and example problems. All programs contain HELP sections which provide handy key definition references, and either special GUIDE keys, or a set of program guidelines which will explain unique or potentially difficult concepts in specific sections. The pac also includes a section explaining the basic concepts of cash flow.

There are eight programs in the Financial Decisions Application Pac:

- Compound Interest & Loan Amortization, solves for any of the five standard compound variables and generates loan amortization schedules.
- Discounted Cash Flow Analysis calculates IRR, NPV and FMRR.
- Depreciation generates annual schedules for straight line, sum-of-the-year's-digits and variable rate declining balance depreciation methods with a graphics option.
- Simple Interest and Interest Conversions, given any three of the four standard interest variables, solves for the fourth.
- Bonds and Notes computes price or yield for bonds and notes.
- Break-Even Analysis solves for any of the five variables in a break-even analysis, given the other four, with a graphics option.
- Odd Days Interest computes the APR and the payment amounts for single advance regular payment transactions.

With the Financial Decisions Pac, user knowledge of computer programming is unnecessary. The programs are complete, friendly and well documented, allowing the user to concentrate on financial analysis rather than programming.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13014

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Financial Decisions Application Pac - French	Mainframe(s): HP-83/85

Software Description: The Financial Decisions Pac can be used with the Series 80 Computer to evaluate a wide variety of financial alternatives. Included in the pac are program descriptions, user instructions, and example problems. All programs contain HELP sections which provide handy key definition references, and either special GUIDE keys, or a set of program guidelines which will explain unique or potentially difficult concepts in specific sections. The pac also includes a section explaining the basic concepts of cash flow.

There are eight programs in the Financial Decisions Application Pac:

- Compound Interest & Loan Amortization, solves for any of the five standard compound variables and generates loan amortization schedules.
- Discounted Cash Flow Analysis calculates IRR, NPV and FMRR.
- Depreciation generates annual schedules for straight line, sum-of-the-years'-digits and variable rate declining balance depreciation methods with a graphics option.
- Simple Interest and Interest Conversions, given any three of the four standard interest variables, solves for the fourth.
- Bonds and Notes computes price or yield for bonds and notes.
- Break-Even Analysis solves for any of the five variables in a break-even analysis, given the other four, with a graphics option.
- Odd Days Interest computes the APR and the payment amounts for single advance regular payment transactions.

With the Financial Decisions Pac, user knowledge of computer programming is unnecessary. The programs are complete, friendly and well documented, allowing the user to concentrate on financial analysis rather than programming.

Price: $95.00

Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13015

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Graphics Presentations Application Pac	Mainframe(s): HP-83/85

Software Description: Text and charts for professional quality reports and presentations can be generated quickly and easily, on acetate or paper, using the Series 80 Graphics Presentations Pac. In addition to the normal plotter character style, the Graphics Presentations Pac provides: Roman and smooth character styles; Upright or slanted variable letter sizes; Four colors; and Six hatching techniques.

After creating a few slides and charts with the manual as a reference, the user will be able to proceed by following the instructions and messages contained in the program. The slide creation section of the manual shows many detailed examples of slides from start to finish. In addition to the creation of slides, the examples also cover some of the editing features and storage capability built into the pac.

The Graphics Presentations Pac has the following features and capabilities:

-Text Mode: 9 letter sizes; 3 type styles which can be either upright or slanted; 4 pen colors; 3 alternative highlighting capabilities (centered, underlined, both) in addition to no highlights; several special characters including many Greek letters and European characters.

-Pie Charts: One or two pies; 2 to 25 slices per pie (each slice can be exploded independently); 6 hatching types; 4 pen colors; 15-character upright or slanted labels; optional percentage labeling; 32-character title and subtitle(s).

-Bar Charts: Normal, clustered, or stacked bars; 1 to 25 bars (clusters); 6 hatching types; 4 pen colors; upright or slanted axes labels; 32-character title and subtitle(s).

-Line Charts: 2 to 25 points; 6 line types; 4 pen colors; upright or slanted axes labels; 32-character title and subtitle(s).

Price: $200.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options: HP 82903A 16K Memory Module

ROMs: HP Plotter Printer ROM (00085-15002)

Peripherals: HP 7225 Plotter with HP 17601A Personality Module, HP 82937A HP-IB, HP 82936A ROM Drawer

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13038

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: VisiCalc™PLUS Application Pac	Mainframe(s): HP-83/85

Software Description: VisiCalcPLUS is a powerful software tool for analysis and solution of complex business and scientific problems. In business, VisiCalcPLUS can become a balance sheet for doing what-if planning. For the engineer, VisiCalcPLUS can simplify the creation of a process model or aid in statistical analysis.

With VisiCalcPLUS, a Series 80 display screen becomes a window that looks upon a much larger electronic worksheet. The user can use the cursor keys to move or scroll this window in four directions to look at any part of the worksheet.

The worksheet is organized in rows and columns. Rows are designated by numbers, columns by letters; the intersection of each row and column defines an entry position, or cell. Alphabetic titles, numbers, or formulas can be entered in each cell. The formula can contain references to the contents of other cells, so that whenever a cell value is changed, all cells depending on that value are automatically changed. Each time an entry is made, VisiCalcPLUS automatically recalculates all formulas on the worksheet.

The VisiCalc portion of this pac is enhanced by the addition of the PLUS portion of VisiCalcPLUS. This is a group of four BASIC language graphics programs that use data files created within VisiCalc to generate line, bar, and pie charts. One of these programs also tests sets of data for goodness of fit to a linear regression and three other transformed linear curves.

The selected graphics program reads the data in from a tape or disc, allows the user to specify titles and format, and outputs the graph to the CRT or to a plotter such as the HP 7225.

Price: $200.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options: HP 82903A 16K Memory Module

ROMs: HP Plotter/Printer ROM (00085-15002)

Peripherals: HP 7225 Plotter with HP 17601A Personality Module, HP 82937A HP-IB, HP 82936A ROM Drawer, Printer (recommended)

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13042

100 Engineering

Software Supplier Product Summary

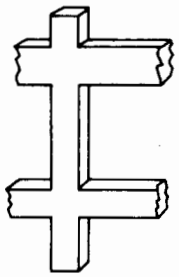
SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10001
Application Code: 100-9001
Expiration Date:

Product Name:	Mainframe(s):
85/CD-2 Reinforced Concrete Column Design	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

85/CD-2
REINFORCED CONCRETE COLUMN DESIGN



Designs or checks the capacity of a reinforced concrete column in accordance with ACI 318-77 with bending in either or both directions. Slenderness effects are evaluated according to the moment magnification method in accordance with Section 10.11 of the ACI Code. Slenderness ratio limited to 100 or less. Cross-sections include rectangular (tied), round (spiral or tied), and square with circular bar arrangement (spiral or tied). No provision has been made for lateral loads applied between ends.

Input	**Output**
Material Properties	Reinforcement Data
Design Method	Allowable Load and Moment
Loads and Moments	Moment Magnification Factor
Unsupported Length	Spiral Size and Pitch
Cross-Section	Eccentricities
Effective Length	

Retail Price: $400

Company Name: ECOM Associates, Inc

Address: 5678 W. Brown Deer Rd:
Milwaukee, WI 53223

Telephone: 414/354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85A (32k Reqd.)

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☐ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon Request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This program is currently sold on the HP-9845. It is now in use in over 100 engineering offices throughout the world.

I/O ROM must not be in place while operating this software.

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

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Software Supplier Product Summary

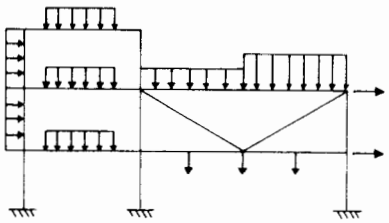
SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10001
Application Code: 100-9002
Expiration Date:

Product Name:	Mainframe(s):
85/FA-3 Plane Frame and Truss Analysis	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

85/FA-3
PLANE FRAME AND TRUSS ANALYSIS



Determines critical moments, shears, axial loads, and the displacements at all joints for a plane frame of any configuration. Initial axial displacements are allowed in order to evaluate the effects of settlements, member shrinkage, or member temperature change. Members may have variable section. Members may have uniform (full or partial length) or concentrated loads.

Input
- Frame Geometry
- Support Conditions
- Member Properties
- Loads and Axial Initial Displacements
- Load Combinations

Output
- Joint Displacements and Rotations
- Member Forces and Reactions
- Maximum Moments

Retail Price: $700

Company Name: ECOM Associates, Ind.

Address: 5678 W. Brown Deer Rd.
Milwaudee, WI 53223

Telephone: 414-354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85A (32k Reqd.)

Peripherals:

Memory: 82803A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☐ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon Request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This program is currently sold on the HP-9845. It is now in use in over 100 engineering offices throughout the world.

I/O ROM must not be in place while operating this software.

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

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Software Supplier Product Summary

SERIES 80 SOFTWARE

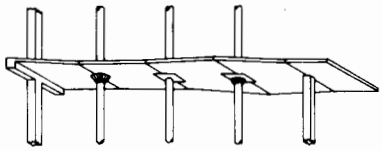
HP USE ONLY
I.D. Code: 10001
Application Code: 100-9003
Expiration Date:

Product Name:	Mainframe(s):
85/CD-3 Flat Slab Analysis and Design	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

85/CD-3

FLAT SLAB ANALYSIS AND DESIGN



Analyzes and designs flat slab or waffle slab floors in accordance with ACI 318-77. Flat slabs may have drop panels at columns. Columns may have capitals. Either the ultimate strength or the working stress method may be used. Design is for a one-bay wide strip using the equivalent frame analysis method and may be up to 10 spans. The strip may have cantilevers. No beams parallel to the direction of moments are permitted.

Input
Spans and Bay Width
Strip Configuration
Material Properties
Loads
Design Method

Output
Joint Moments and Shears
Design Forces
Shear Stresses
Reinforcement Data
Material Quantities

Retail Price: $575

Company Name: ECOM Associates, Inc

Address: 5678 W. Brown Deer Rd.
Milwaukee, WI 53223

Telephone: 414/354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☐ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Europe (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ South Africa
- ☐ Far East (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon Request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This program is currently sold on the HP-9845. It is now in use in over 100 engineering offices throughout the world.

I/O ROM must not be in place while operating this software.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

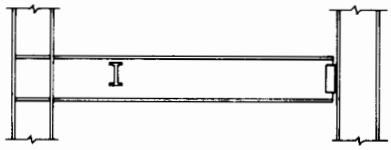
SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10001
Application Code: 100-9004
Expiration Date:

Product Name:	Mainframe(s):
85/SD-1 Steel Beam Design	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

85/SD-1
STEEL BEAM DESIGN



Designs or checks steel W, S and C sections subjected to loads and end moments. The program selects the lightest sections for each of several section depths. A check routine allows the designer an opportunity to check a section. The ratio of the actual working load shear stress to the AISC allowable shear stress is also calculated. Solutions do not include biaxial bending problems. The program includes data files for W6 through W36 sections as listed in the AISC Steel Construction Manual.

Input
- Loads and End Moments
- Material Properties
- Bracing Points
- Section Type
- Nominal Depth

Output
- Lightest Section
- Moment Capacity
- Shear Stress Ratio
- End Reactions
- Maximum Moments
- Centerline and Cantilever Deflections

Retail Price: $225

Company Name: ECOM Associates, Inc.

Address: 5678 W. Brown Deer Rd.
Milwaukee, WI 53223

Telephone: 414/354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85 (32k Reqd.)

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☐ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon Request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

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Software Supplier Product Summary

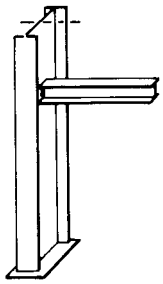
SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10001
Application Code: 100-9005
Expiration Date:

Product Name:	Mainframe(s):
85/SD-2 Steel Column Design	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

85/SD-2
STEEL COLUMN DESIGN



Designs or checks wide flange, sections subjected to axial loads with or without bending moments applied about axes of the column. The moments can be applied to either or both ends of the column. The program selects the lightest section for a specified depth. "Pin-ended column" base plates can also be designed. Base plate dimensions can be established for special "built-up" column shapes. The program includes data files for W6 through W36 sections as listed in the AISC Steel Construction Manual.

Input
Material Properties
Bracing Conditions
Axial Loads
Moments
Nominal Depth

Output
Lightest Section
AISC Interaction Equation Results
Base Plate Data

Retail Price: $275

Company Name: ECOM Associates, Inc.

Address: 5678 W. Brown Deer Rd.
Milwaukee, WI 53223

Telephone: 414/354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85A (32k Reqd.)

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☐ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon Request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This program is currently sold on the HP-9845. It is now in use in over 100 engineering offices throughout the world.

I/O ROM must not be in place while operating this software.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

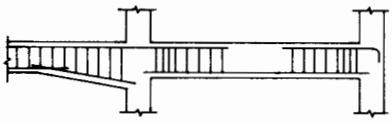
SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 1001
Application Code: 100-9006
Expiration Date:

Product Name:	Mainframe(s):
85/CD-1 Reinforced Concrete Beam Design.	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

85/CD-1
REINFORCED CONCRETE BEAM DESIGN



Designs reinforced concrete beams by either the ultimate strength or working stress method of ACI 318-77. Flexural reinforcement requirements are given for rectangular, tee, or ledger beam sections. Cutoff locations are given for the various bar sizes that the designer may choose to use. The end sections and midspan section may be of different size.

Input	**Output**
Material Properties	Reinforcement Areas
Design Method	Bar Cutoff Data
Cross-Section Dimensions	Stirrup Spacing
Stirrup Size	Design Moments
Loads	Inflection Points

Retail Price: $425

Company Name: ECOM Associates, Inc.

Address: 5678 W. Brown Deer Rd.
Milwaukee, WI 53202

Telephone: 414/354-0243

Contacts: Curt Miller
Gary Koser
Bob Abendroth

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☐ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☒ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Upon request

Price:

Documentation Available: Manual supplied with program

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This program is currently sold on the HP-9845. It is now in use in over 100 engineering offices throughout the world.

I/O ROM must not be in place while operating this software.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9007
Expiration Date:

Product Name:	Mainframe(s):
CHEMICAL ENGINEERING PAC 1	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This package is designed to solve many of the more time consuming problems which come up in the design or troubleshooting of a chemical plant. The programs included are:

FLUID FLOW ANALYSIS - Solves interchangeably for pressure drop, flow rate, or pipe diameter in a variety of units - both English and Metric. Allows for consideration of fittings and valves.

EQUATIONS OF STATE - Provides both the ideal gas and Redlich-Kwong equations of state.

DEW POINT AND BUBBLE POINT CALCULATIONS - Determines the equilibrium temperature for a mixture of up to 25 components in an ideal mixture.

ISOTHERMAL FLASH CALCULATION - Calculates the mole fraction of the feed vaporized and the resulting liquid and vapor composition for ideal solutions.

ADIABATIC FLASH CALCULATION - Calculates the mole fraction of the feed vaporized, the equilibrium temperature, and product compositions for ideal solutions.

PACKED COLUMN ANALYSIS - Determines the required packed column diameter such that the gas velocity will be 50% of flooding.

McCABE THIELE ANALYSIS - Solves interchangeably for number of stripping and rectification trays, mole fraction low boiler in the feed, mole fraction low boiler in the distillate, mole fraction low boiler in the bottoms, thermal condition of the feed, reflux ratio, and average Murphree tray efficiency.

SIMULTANEOUS NON-LINEAR EQUATIONS - Uses a Newton-Raphson convergence scheme to solve a system of up to 12 equations with 16K memory and up to 20 equations with 32K.

Retail Price: $295

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: Kerry R. Kelly
David R. Hendricks

SYSTEM REQUIREMENTS

Cornputer Model: HP-85A

Peripherals:

Memory: 32K memory required only for the solution of more than 12 simultaneous non-linear equations.

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Modifications are available at additional cost. Custom software development is also available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: One 62 page manual with one or more examples for each of the eight programs in the Pac.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 100-9008
Expiration Date:

Product Name:	Mainframe(s):
COGO (COORDINATE GEOMETRY) SYSTEM - TAPE CARTRIDGE	85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The COGO system software package contains four sets of programs designed to aid the surveyor in solving major surveying problems. The program routines for field traversing include Bowditch and Crandall's traverse adjustment, elevation adjustment, and radial staking notes. Subdivision routines include intersect bearing-bearing, bearing-distance, distance-distance, curve data calculations, dividing arcs and lines, and intersecting offset lines.

The COGO system software also includes graphics plotting and more advanced routines such as cul-de-sacs, curve staking, spiral curve, true least squares traverse adjustment, double proportional measurement, and state plane transformations.

COGO has a capacity of 4000 x,y,z coordinates per set when equipped with 32K of memory.

Retail Price: $2500

Company Name: NORTHWEST SOFTWARE, INC.
Address: 6449 Franklin Blvd.
Sacramento, CA 95823

Telephone: 916/421-2405/2407

Contacts:

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Training available at customer's expense. Price:

Documentation Available: 102 Pages, Basic Language Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 100-9009
Expiration Date:

Product Name:	Mainframe(s):
BLUETOPPING SYSTEM - TAPE CARTRIDGE	85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Bluetopping System software package is a set of programs designed for the civil engineer who calculates Bluetop Grade Lines. The program will compute station and elevation data for equal tangent parabolic vertical curves and straight grades. These stations may be on a (straight grade) tangent or on a curve. Additional features include special street functions, such as the calculation of Gutter Left/Right, and Edge of Pavement Left/Right. Upon completion of data entry the operator may obtain a fully annotated listing for all or any portion of grade lines by inputting a beginning station, on-tangent station interval, on-curve station interval, and ending station. The annotation includes notations for VPC, VPI, VPT, Sag, Summit, Plus, and On-Tangent.

The system software is a menu-driven system which operates in both interactive and batch input modes. The system will handle 150 VPT's (station, elevation, length for each VPI or 50 for each of the three grade lines) and 50 random plus stations when equipped with 32K of memory.

Computer Museum

Retail Price: $500

Company Name: NORTHWEST SOFTWARE, INC.
Address: 6449 Franklin Blvd.
Sacramento, CA 94823
Telephone: 916/421-2405/2407
Contacts:

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Training available at customer's expense Price:

Documentation Available: 41 Page Manual, Basic Language Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 100-9010
Expiration Date:

Product Name:	Mainframe(s):
EARTHWORK SYSTEM - TAPE CARTRIDGE	85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Earthwork system software package is a set of programs designed for the civil engineer who calculatesand plots earthwork volumes and mass diagram by the average end method. The system computes earthwork volumes, allowing the designer to obtain a cost-effective highway design.

The system software is a menu-driven system which operates in a batch data mode. The data is inputted via data lines in one of the batch data programs. The batch data input format eliminates the need for computer prompting, an important feature due to the quantity of input data inherent in earthwork computations. The batch data programs and data lines may be saved, eliminating need for re-entry of dry data. The operator need only select those lines requiring revision and then rerun the data for updated calculations.
The Earthwork System requires 32K of memory.

Retail Price: $1250

Company Name: NORTHWEST SOFTWARE, INC.
Address: 6449 Franklin Blvd.
Sacramento, CA 95823
Telephone: 916/421-2405/2407
Contacts:

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☐ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Training program available at customer expense Price:

Documentation Available: 31 page manual, Basic Language Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10028
Application Code: 100-9011
Expiration Date:

Product Name:	Mainframe(s):
HARDY CROSS II - TAPE CARTRIDGE	85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The Hardy Cross II System software package is a set of programs designed for the civil engineer who calculates hydraulic system parameters while in a steady state. These hydraulic systems may consist of multiple element networks that are interconnected at junctions. These elements may be pipes, pumps, and imaginary elements used to provide psuedo loops in multiple-reservoir systems. The user may use the equivalent length method to account for minor losses. The user must have the pump flow direction correct in these calculations.

The Hardy Cross II system is a menu-driven system which will operate in both interactive and batch input modes. The system will handle 250 elements (pipes, pumps, psuedo elements), 250 loop elements, and 250 junctions when equipped with 32K of memory.

Retail Price: $1250

Company Name: NORTHWEST SOFTWARE, INC.
Address: 6449 Franklin Blvd.
Sacramento, CA 94823

Telephone: 916/421-2405/2407

Contacts:

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
- ☐ Europe (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ South Africa
- ☐ Far East (all)
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ _____
  - ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☐ on-site consulting
- ☐ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Training program available at customer's expense

Price:

Documentation Available: 57 Page Manual, Basic Language

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10035
Application Code: 100-9012
Expiration Date:

Product Name:	Mainframe(s):
μ - PAC (MICRO PACK)	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

MICROWAVE CIRCUIT ANALYSIS AND OPTIMIZATION WITH GRAPHICS

μ - PAC PROGRAM DESCRIPTION

μ-PAC is a sophisticated microwave two-port analysis and optimization program designed specifically for use on the HP-85 microcomputer. Ease of circuit description and use was a foremost consideration in its developemnt. A free-formatted input with optional element-value scaling (pf, nhy, k, etc.) and multiple menu options makes this program extremely practical to learn. Interconnections are easily performed using descriptive symbols in a convenient and natural manner. Results of any analysis may be permanently stored or displayed as s-parameter, y-parameter, or z-parameter data. A data processing menu analyzes the results of any analysis for associated parameters such as stability, maximum gains, simultaneous conjugate match, etc. A graphics menu allows plotting of the parameters on linear, logarithmic, polar, or Smith charts. The results of many different circuit analyses may be plotted for comparison purposes. Finally, μ-PAC offers a modified Taylor optimization search which may optimize as many as 10 variables. The results of an optimization may also be analyzed and displayed graphically. During the optimization process, gradients and search sequences are displayed. The user has the option of stopping any process and using current optimized results in any menu option. Measured data (s-parameters) may be interpolated or smoothed to create additional data or eliminate errors. Data banks may be created to characterize devices for use in circuit files. Gain and stability may be plotted on the Smith chart for modeled or measured devices.

This program has been created as a tool for microwave circuit designers. The circuit element library is expandable as additional libraries are in development.

CALL OR WRITE FOR DETAILED DATA SHEET AND PROGRAM DEMONSTRATION TAPE OR DISC.

Retail Price: TAPE $440
DISC $580

Company Name: DIAMOND TV AND SOFTWARE
Contacts: DEAN HILLBUN

Address: P.O. BOX 391
DIAMOND SPRINGS, CA 95619

Telephone: (916) 626-0424

SYSTEM REQUIREMENTS

Computer Model: HP-85

Memory: HP-82903A 16K Memory Module

Operating System:

Other Software:

Peripherals: HP-82902M Disc Drive
HPIB Interface Module
Mass Storage ROM
Above for disc version only

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: SEMINARS IN COMPUTER AIDED CIRCUIT DESIGN USING μ - PAC Price:

Documentation Available: COMPLETE OWNERS MANUAL WITH NUMEROUS PRACTICAL EXAMPLES OF FILTERS, AMPLIFIERS, ETC. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

μ - PAC is fully supported by our technical staff of engineers. Program owners experiencing technical difficulties are invited to call or write our head office or our local support group. As new program updates and additions become available, program owners are notified. Additional copies may be purchased at a reduced price.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10031
Application Code: 100-9013
Expiration Date:

Product Name:	Mainframe(s):
TRANSIENT RESPONSE	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Analyze the transient response of a linear system expressed by the polynomial:

$$G(S) = \frac{E_o(S)}{E_i(S)} = \frac{A_0 + A_1S + A_2S^2 + \ldots + A_mS^m}{B_0 + B_1S + B_2S^2 + \ldots + B_nS^n}$$

where: $n \geq m$
$S = j\omega$

FEATURES:

- Up to 10th order systems
- Analyze D/A converters, RLC networks, photodiode amplifiers, active filters
- Prestored routines to analyze current amplifiers, integrators, coil drivers and more
- Determine mechanical system response using prestored routines
- Simplified data entry using easy to read component names, multipliers

OUTPUTS:

- Graphic / Tabular output
- Response computed for impulse, ramp, step, sawtooth inputs

For two pole step response:

* Damping Factor
* Damped Oscillation Freq
* Damped Oscillation Period
* Percent Overshoot
* Time at Maximum Overshoot
* Time at First Axis Crossing
* 10% - 90% Risetime
* Settling Time
* Magnitude vs. Frequency
* Phase vs. Frequency

Retail Price: $145.00

Company Name: A.D. LIBIN ASSOCIATES
Contacts: Arthur Libin
Address: 844 Waller Street
San Francisco, CA 94117
Telephone: (415) 863-1863

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
XX U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

XX phone-in support	XX mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available:

Price:

MANUAL - includes complete description of all programs available in the transient analysis package. $10.00

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10017
Application Code: 100-9014
Expiration Date:

Product Name:	Mainframe(s):
Analysis and Design of Digital Filters and Discrete-Time Systems	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

This newly-announced applications PAK for the HP-85 is a menu-oriented, prompt-driven, interactive program for analyzing and designing digital filters and discrete-time systems. The PAK provides the following design options:

(i) automated design of finite impulse response (FIR) digital filters to meet frequency domain specifications,
(ii) automated design of infinite impulse response (IIR) digital filters of the Butterworth and Tchebyshev variety to meet frequency domain specifications,
(iii) design of FIR filters to meet frequency sampling specifications,
(iv) least squares design of FIR filters, and
(v) transformation of analog systems to digital systems by the methods of impulse invariance, covariance-invariance, and bilinear-z transformation.

Once designed these filters may be analyzed by computing, tabulating, and graphing (on CRT, thermal printer, or HP7225 plotter) the following data:

(i) filter coefficitents,
(ii) filter impulse response, and
(iii) filter frequency reaponse (magnitude and phase; linear or log scale; analog and digital overplot).

Filter coefficients may be rounded to a desired number of significant digits and re-analyzed.

This application PAK provides the following purely analysis features:

(i) impulse reaponse and frequency response analysis for user-specified autoregressive moving average (ARMA) discrete-time systems, and
(ii) fast Fourier transofrm (FFT) analysis of user-specified real (and complex) sequences of length 256 (128) points.

Retail Price: $250.00

Company Name: Parametrics, Inc.

Contacts: Louis L. Scharf
James A. Krack

Address: 1129 W. Oak
Ft. Collins, CO 80521
Telephone: (303) 221-3163

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Memory: HP 16K Memory-Module: 82903A
Printer-Plotter ROM: 00085-15002
Operating System:

Other Software:

Peripherals: (Optional) HP-IB Interface Module: 82937A
(Optional) HP 7225A Graphics Plotter: 7225A-002

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☐ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: The PAK is self-explanatory. But PARAMETRICS plans several tutorials and 3-day short courses on digital filtering and signal processing on desktop computers. Price:

Documentation Available: 88 page manual with examples of representative designs and analyses, and illustrations of typical graphics outputs. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This software is of use to analysis of continuous- and discrete-time systems, designers of digital filters and digital control systems, data analysts, and others engaged in the design and analysis of discrete-time signals and systems.

Allow 3 weeks for delivery.

RESPONSIBILITIES STATEMENT

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Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9015
Expiration Date:

Product Name:

Fluid Flow Analysis

Mainframe(s):

HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program allows the user to solve those time-consuming fluid flow problems with very little effort. It is quick, accurate, and extremely easy to use.

Sove interchangeably for:

* Flow rate
* Pressure drop
* Pipe diameter

The user may select to calculate in a wide variety of units - both English and Metric.

The calculations apply to laminar, transitional, and turbulent flow.

Common values of pipe roughness are program prompted and number of velocity heads (K-values) are printed on request.

After the initial calculation, new cases may be examined without reentering unchanged parameters.

```
        FLUID FLOW ANALYSIS
        ********************

            Flow Parameters

Mass Flow (lb/hr) = 275000
Velocity (ft/sec) = 7.8366
Press. drop (Psi) = 11.5
Reynolds no. = 322730
Friction factor = .017202

          Physical Properties

Density (lb/cu.ft.) = 62.32
Viscosity (cP) = 1.005

            Pipe Properties

Length (ft.) = 450
Diameter (in.) = 5.3552
Sum of K's = 10.5
Pipe roughness, E (in.) = .0018
```

Retail Price: $75.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: Kerry R. Kelly
David R. Hendricks

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modifications. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 8 page manual with one example of program output. One tape cartridge is also included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9016
Expiration Date:

Product Name:

Equations of State

Mainframe(s):

HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Solves interchangeably for:

* pressure, P
* volume, V
* number of moles, n
* gas constant, R
* temperature, T

The user may select either the ideal gas or Redlich-Kwong equation of state.

The Redlich-Kwong solution requires both the critical temperature and critical pressure.

Values of the universal gas constant are provided in the manual along with critical properties of 45 common substances.

```
      IDEAL GAS EQUATION

      Pressure = 5
Volume will be calculated
      No. of moles = 1
      Gas constant = .7302
      Temperature = 520

Ideal gas volume = 75.9408
```

```
      REDLICH-KWONG EQUATION

      Pressure = 5
Volume will be calculated
      No. of moles = 1
      Gas constant = .7302
      Temperature = 520
Critical Temperature = 665.9
Critical Pressure = 42

Redlich-Kwong Volume =
 69.3051733722
```

Retail Price: $40.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventery Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modifications. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 8 page manual in English with two examples of program output. One tape cartridge is included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9017
Expiration Date:

Product Name: ***Dew Point and Bubble Point Calculations***

Mainframe(s):

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

This program performs the necessary trial and error calculations to determine the equilibrium temperature for an ideal solution of up to 25 components.

First, starting on line 5000, the user types in the equilibrium ratio between phases (K_i) for each component as a function of temperature.

Next, the user is prompted for:

* the type of calculation (dew point or bubble point)
* the vapor or liquid composition
* a first guess for the dew point or bubble point temperature.

Calculations then begin with the results of each interation displayed.

```
DEW POINT CALCULATION
**********************

   Y(1) = .0114
   Y(2) = .9147
   Y(3) = .0537
   Y(4) = .0202

GUESS FOR DEW PT. TEMP. = 200

CALC. DEW POINT TEMP. = 238.19
```

```
BUBBLE POINT CALCULATION
**************************

   X(1) = .0114
   X(2) = .9147
   X(3) = .0537
   X(4) = .0202

GUESS FOR BUB. PT. TEMP = 200

CALC. BUBBLE PT. TEMP. = 190.93
```

Retail Price: $50.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modifications. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 4 page manual in English with 2 examples of program output. One tape cartridge is included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9018
Expiration Date:

Product Name:

Isothermal Flash Calculation

Mainframe(s): HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program calculates the mole fraction of the feed vaporized (V/F) and the resulting liquid and vapor product compositions.

A second order Newton-Raphson convergence scheme is used to converge the Rachford-Rice equation to less than 10^{-6}.

The user is prompted for:

* the number of components, n
* the mole fraction of each component in the feed, z_i
* the equilibrium ratio between phases, K_i, for each component at the flashing temperature.

```
SINGLE STAGE EQUILIBRIUM FLASH
CALCULATION - Temperature and
Pressure specified
*****************************

Number of components = 5

Max. number of iterations= 10

Comp. No.      Z(I)       K(I)
---------    ---------   ---------

    1        .150000    12.750000
    2        .250000     5.610000
    3        .050000     1.400000
    4        .300000      .075000
    5        .250000      .375000

    (V/F) =  .439878

Comp. No.      X(I)       Y(I)
---------    ---------   ---------

    1        .024317     .310040
    2        .082567     .463202
    3        .042519     .059526
    4        .505806     .037935
    5        .344791     .129297
```

Computer Museum

Retail Price: $50.00

Company Name: KELIX SOFTWARE SYSTEMS
425 Daventry Drive
Address: Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modifications. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 4 page manual with one example of program output. One tape cartridge is included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9019
Expiration Date:

Product Name:

Adiabatic Flash Calculation

Mainframe(s):

HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program calculates the mole fraction of the feed vaporized (V/F), the equilibrium temperature, and the resulting liquid and vapor product compositions for a flash process in which no heat is added to the system.

First, starting on line 5000, the user types in:

* the equilibrium ratio between phases, K_i, as a function of temperature for each component.
* the liquid enthalpy, h_i, as a function of temperature for each component.
* the vapor enthalpy, H_i, as a function of temperature for each component.

Next, the user is prompted for:

* the feed composition
* the feed enthalpy
* a first quess for the equilibrium temperature

The results of each iteration of the simultaneous material and energy balance convergence process are displayed.

```
ISENTHALPIC FLASH CALCULATION
*****************************

 INPUT DATA:
 ----------

 Number of components = 3

 Z(1) = .375
 Z(2) = .506
 Z(3) = .119

 Feed Enthalpy = 20770

 RESULTS:
 -------

       (V/F) =  .55761
 Temperature =  237.59

Comp. No.      X(I)        Y(I)
---------   ---------   ---------

    1        .267219     .460510
    2        .557638     .465032
    3        .175143     .074458
```

Retail Price: $75.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modification. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 8 page manual with one example of program output. One tape cartridge is also included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9020
Expiration Date:

Product Name: ***Packed Column Analysis***

Mainframe(s): HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

Calculates packed column diameter and flooding velocities for gas-liquid systems.

The user is prompted for:

* the packing fractional void space
* the packing specific surface area, ft /ft
* the mass flow rate of the gas, lb/hr
* the gas density, lb/ft
* the superficial liquid flow rate, lb/hr ft
* the liquid density, lb/ft
* the liquid viscosity, centipoise

The program then uses a second order Newton-Raphson convergence scheme to solve the Sherwood-Shipley-Holloway equation for superficial gas flooding rate.

The column diameter is then calculated such that the gas velocity will be 50% of flooding.

```
      PACKED COLUMN ANALYSIS
--------------------------------

        Packing properties

Specific surface area
    (sq.ft/cu.ft) =          51.000
Fraction of free void space in
packing (decimal) =            .683

         Gas properties

Weight flow rate of gas
          (lb/hr)  =            461
Density of gas
       (lb/cu.ft)  =          .0497

        Liquid properties

Superfical liquid rate
    (lb/hr-sq.ft) =           3300
Density of liquid
        (lb/cu.ft) =        62.3000
Viscosity of liquid
     (centipoise) =          .8000


  THE RESULTS ARE AS FOLLOWS :
--------------------------------
Superficial gas rate
    (lb/hr-sq.ft) =       982.6259
Packed column diameter
              (ft) =          1.093


Number of iterations =  7
```

Retail Price: $60.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808
Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

- ☐ Worldwide
- ☒ U.S. (all regions)
  - ☐ East
  - ☐ South
  - ☐ Midwest
  - ☐ West
- ☐ Canada
- ☐ Mexico
- ☐ Latin America (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Europe (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ South Africa
- ☐ Far East (all)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ Australia/N.Z.

Support Services Available:

- ☒ phone-in support
- ☒ on-site consulting
- ☒ mail-in support
- ☐ on-site systems engineers
- ☐ remote dial-in
- ☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modifications. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 6 page manual with one example of program output. One tape cartridge is included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9021
Expiration Date:

Product Name:	Mainframe(s):
McCabe-Thiele Analysis	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program can be used to quickly analyze distillation columns involving binary or pseudo-binary systems.

First, beginning on line 5000, the user types in the relative volatility as a constant or as any function of mole fraction low boiler in the liquid.

Next, the user simply types in values for six of the following seven variables and the program will automatically solve for the seventh.

* number of stripping and rectification trays, n_s and n_r
* mole fraction low boiler in the feed, z_f
* mole fraction low boiler in the distillate, x_d
* mole fraction low boiler in the bottoms, x_b
* thermal condition of the feed, q
* reflux ratio, R
* average Murphree tray efficiency

The program will graphically produce a Mc Cabe-Thiele diagram when solving for the number of trays.

Retail Price: $75.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modification. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 8 page manual with one example of program output. One tape cartridge is included.

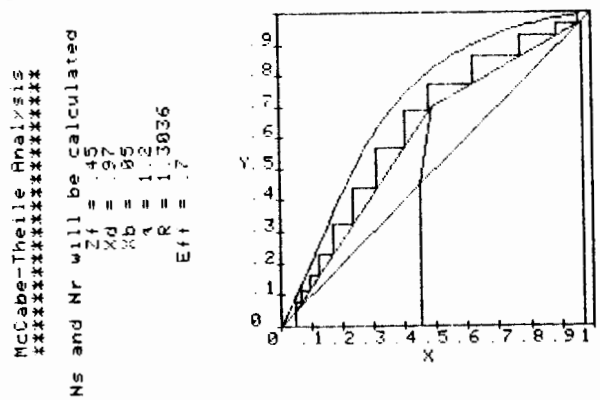
Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION



CALCULATION OF NUMBER OF TRAYS

TRAYS ARE NUMBERED FROM THE BOTTOM UP

Tray No.	Xi	Yi
Stripping		
1	.050000	.078086
2	.069101	.114473
3	.093847	.163460
4	.127163	.230892
5	.173022	.322738
6	.235485	.439655
7	.314999	.568793
8	.402824	.685860
9	.482440	.773042
Rectification		
10	.621954	.860229
11	.776024	.926314
12	.892802	.965364
13	.961807	.985586

No. of stripping trays = 9

No. of rectification trays = 4

Total no. of trays required = 13

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9022
Expiration Date:

Product Name:

Simultaneous Non-Linear Equations

Mainframe(s):

HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program allows the user to solve a system of up to 12 simultaneous equations with the basic 16K memory and up to 20 equations with a 32K computer.
A Newton-Raphson convergence scheme is used along with a modified Gauss-Jordan reduction to solve the linearized system at each iteration.

First, beginning on line 5000, the user types in the system of equations.

Next, the user is prompted for:

* the number of equations
* the maximum acceptable error
* the maximum number of iterations
* a first quess for each of the unknowns

This is the system solved in the example on the right:

```
5000 F(1)=.5*X(1)+X(2)+.5*X(3)-X(6)/X(7)
5010 F(2)=X(3)+X(4)+2*X(5)-2/X(7)
5020 F(3)=X(1)+X(2)+X(5)-1/X(7)
5030 F(4)=-28837*X(1)-139009*X(2)-78213*
          X(3)+18927*X(4)+8427*X(5)+
          13492/X(7)-10690*X(6)/X(7)
5040 F(5)=X(1)+X(2)+X(3)+X(4)+X(5)-1
5050 F(6)=400*X(1)*X(4) 3-178370*X(3)*X(5)
5060 F(7)=X(1)*X(3)-2.6058*X(2)*X(4)
5070 RETURN
```

```
   ************************
   *                      *
   * NUMERICAL SOLUTION TO *
   * 7 SIMULTANEOUS       *
   * NON-LINEAR EQUATIONS  *
   *                      *
   ************************

THE MAXIMUM ERROR FOR THE
SOLUTION WAS SPECIFIED TO BE
1.000E-006

THE MAXIMUM NUMBER OF ITERATIONS
WAS SPECIFIED TO BE 10

Xguess(1)= .5   S(1)= .000001
Xguess(2)= 0    S(2)= .000001
Xguess(3)= 0    S(3)= .000001
Xguess(4)= .5   S(4)= .000001
Xguess(5)= 0    S(5)= .000001
Xguess(6)= .5   S(6)= .000001
Xguess(7)= 2    S(7)= .000002

   CONVERGED IN 7 ITERATIONS


      CALCULATION TIME
 0 HRS  3 MIN  15.594 SEC


   X(1) = .322870839477
   X(2) = 9.2235435392E-3
   X(3) = 4.60170909607E-2
   X(4) = .618171675071
   X(5) = 3.71685095282E-3
   X(6) = .576715395935
   X(7) = 2.97786345079


   F(1) = 0
   F(2) = .000000000001
   F(3) = 0
   F(4) = .00000007
   F(5) = 0
   F(6) = 0
   F(7) = 1.E-13
```

Retail Price: $95.00

Company Name: KELIX SOFTWARE SYSTEMS
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

Contacts: David R. Hendricks
Kerry R. Kelly

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory: Full 32K memory is required for the solution of more than 12 simultaneous non-linear equations.

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Contact KELIX for a quote for program modification. Custom software is available.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 9 page manual with one example of program output. One tape cartridge is included.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10034
Application Code: 100-9023
Expiration Date:

Product Name:	Mainframe(s):
SERCAL - A Program to Calculate the Size of Electrical Services to Commercial Buildings	HP-83 & HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

SERCAL is designed for architects, contractors, engineers, plan checkers, and others involved in the building industry.

It produces forms designed for submittal to building inspection and permitting agencies. These forms contain complete documentation of the building's electrical service requirements, including conductor and conduit size, panel size, and overcurrent device setting. Information is presented in a clear, easy to understand format.

It also produces forms designed to aid designers in considering alternative ways of providing service to a building.

All calculations are traceable to the National Electrical Code. Sizing is done considering commercail availability and trade practice.

Input options include the ability to enter a complete list of electrical equipment, or simply an assumed number of volt-amperes per square foot for preliminary studies.

The program is simple to use. Experience indicates that a new user can learn to use the program in about 30 minutes.

The manual is easy to read and very descriptive. In addition to explaining how to use the program, it includes 11 examples that show how to use the program to do many other electrical calculations, including sizing feeders and branch circuits.

Retail Price: $300.00

Company Name: Golden State Business Systems
Contacts: Jerry Liguori
Address: 1910 P Street
Sacramento, California 95814
Telephone: 441-2917

SYSTEM REQUIREMENTS

Computer Model: HP-83 & HP-85 (Program is available in a tape or disk based version.)
Memory: 32K Req. Printer/Plotter ROM Required

Peripherals: 80 Column HPIB Printer with HP83, single or dual 5¼" floppy disk

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Available at Golden State Business Systems in Sacramento on a fee basis. Price:

Documentation Available: 107 page manual with 11 examples. Pictures of the displays are included to guide the user through all features of the program. National Electrical Code explained. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

This software was developed by a consulting electrical engineering firm and is used extensively in their practice. It has been extensively tested. Several people without computer experience have been quickly trained to use it.

The program is completely error trapped. It includes complete editing and storage capability. A user can keep a tape or disk record of jobs and use the edit routines to modify the data as the design process develops. Last minute changes can be quickly and easily accommodated.

It is a high quality-high value software product.

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10023
Application Code: 100-9024
Expiration Date:

Product Name:

Multicomponent Distillation

Mainframe(s):

HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This program performs many of the calculations necessary for the analysis of multicomponent-multifeed distillation columns. The column can have up to 5 feed streams and involve as many as 15 components.

Program calculations are based on the Fenske-Underwood-Gilliland shortcut method. The software may be used to aid in the design of new columns or the rating of existing columns.

COLUMN DESIGN - The user may specify the recovery of the two key components and the reflux ratio as a multiple of the minimum reflux. The program calculates the distillate and bottoms rates and compositions, the minimum number of theoretical stages, the minimum reflux ratio, actual number of stages, operating reflux ratio, column efficiency, feed plate location, maximum vapor velocity, minimum column diameter, and condenser and reboiler temperatures and heat duties. It also generates a plot of the number of theoretical stages versus reflux ratio.

COLUMN RATING - Here the user may specify the recovery of one component, the number of plates or stages, and either the maximum vapor rate or reflux ratio. The program will determine the distillate and bottoms rates and compositions, the operating reflux ratio, the column efficiency, maximum vapor velocity, and the condenser and reboiler temperatures and duties.

The program is very flexible in that the user may allow for nonideality in both the liquid and vapor phases. If nonideal liquid is specified, liquid phase activity coefficients are determined using the Scatchard-Hilderbrand regular solution equations. The Redlich-Kwong equation of state is used to calculate fugacity coefficients in the case of nonideal gas.

Finally, the user has the option of forming a customized data file to store physical property constants of frequently used components.

Retail Price: $195.00

Company Name: KELIX SOFTWARE SYSTEMS
Contacts: Gordon D. Kelly
Address: 425 Daventry Drive
Baton Rouge, Louisiana 70808

Telephone: (504) 769-6785

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory: 32K memory is required

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Program modifications are available at additional charge.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Not necessary

Price:

Documentation Available: 78 page manual with four examples

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10047
Application Code: 100-9025
Expiration Date:

Product Name:	Mainframe(s):
CivilSoft	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

CivilSoft is a general Surveying and Site Design program that includes all the basic COGO type operations, but written in an easier to use form than standard COGO. Included is a plotting program that will allow the user to plot at any scale and any size WITHOUT USING AN EXTERNAL PLOTTER! Point storage capability is 999 max. in internal memory and the user chooses file name and size. Plots can be stored on tape and recalled for revisions or additional plots at other scales, you can even plot trees for landscape plans. Using the legal description program that is included, you can write your legals in minutes by simply inversing between computed points. Curves with radial lines that are not equal will not inverse, there is a sequential inverse routine which will save time, and bearings such as N 90 00 00 E will print Due East!

Included in CivilSoft is a complete vertical design section which includes Vertical traversing with points stored as stations and elevations, slope intersections, traversing and inversing, vertical curve design, profile plotting (user chooses horizontal and vertical scales), earthwork with cut and fill separated, and pipe and ditch design. Included also is a complete radial surveying program.

CivilSoft comes with a complete and easy to read manual which will take you step-by step through all the routines. There are no complex codes to learn, for example, you can traverse, enter side-shots, enter vertical angles from a single line without going to codes or function keys. You can enter distances as equations while inputting data. Advanced legal description program is available at no additional cost if you are to connect to the HP-82905A printer. CivilSoft is also available for the 5¼" dual disk drive, at no additional cost.

Computer Museum

Retail Price: $1,300.00

Company Name: LAND INNOVATION
P.O. BOX 50662
Address: Dallas, TX 75250-0662

Telephone: (214) 234-6636

Contacts: Richard Harrison

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals: None are needed, program may run on disc drive and use external printer if desired

Memory: 16K Memory Module - 82903A
Mass Storage ROM -00085-15005 and Plotter/Printer

Operating System: ROM - 00085-15002 (If using Flexible Disc Drive or external printer)

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Will modify program for individual users at additional cost.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: None needed Price:

Documentation Available: 110 page manual with examples. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

Please specify if you have a dual 5¼" disc drive or external printer (such as HP-82905A) when ordering.

Sold through license agreement only, listing is not available. Some variables are available.

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10035
Application Code: 100-9026
Expiration Date:

Product Name:	Mainframe(s):
μ - NOIS - TAPE OR DISC	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

μ-NOIS is a Microwave Circuit Analysis And Optimization Program with Noise Analysis and Graphics.

This program has the same capability as μ-PAC (see catalog #100-9012) but is also able to perform Noise Analysis for networks with lossless input or feedback networks. μ-PAC circuit files are compatible with μ-NOIS.

As with μ-PAC, the program is menu-driven using the soft keys for speed and convenience. Circuits are created using the Editor Module in a simple file which may be saved on tape or disc. Circuit elements include Transmission Lines (loss optional), Stubs, Microstriplines, RLC's, Transistors and Tranformers and Controlled Sources. Two Ports may be cascaded, series, parallel, or reversed.

Transistor S-Parameter data banks may be created, stored and used with circuit files through the editor. Transistor noise data requirements are Fmin, Γopt, Rn together with the S-Parameters for each frequency.

Circuits may be optimized using a modified Taylor Gradient search (also gives sensitivities) for coarse optimization and a controlled pattern search for high resolution.

Extensive graphics may be used to plot gains, Smith Chart data, GMAX, GMS, Polar plots, VSWR's, Gain Contours and I/O Mapping.

S-Parameter data either created as a file or saved from the results of an analysis may be interpolated to generate additional points or may be smoothed to eliminate errors of specified order. The results may also be saved in a user specified file and used through the editor in circuit files.

Retail Price: $540.00

Company Name: DIAMOND TV & SOFTWARE
Address: P.O. BOX 391
DIAMOND SPRINGS, CA 95619

Contacts: D. HILLBUN
M. HILLBUN

Telephone: (916) 626-0424 (408) 226-2432

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals: HPIB Interface 82937A for disc version

Memory: 16K Memory Module - 82903A
Mass Storage ROM - 00085-15001 for disc version

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:
Custom modification is supported in most cases

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Seminars at customer expense Price:

Documentation Available: 40 page manual with examples and instructions. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

This program was created as a Design Tool for the practicing Engineer involved in Microwave Circuit Design. Ease of use was a foremost consideration in development. μ-NOIS is segmented into 5 modules through common storage.

Program Data Sheets and demonstrations are available.

RESPONSIBILITIES STATEMENT

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Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10017
Application Code: 100-9027
Expiration Date:

Product Name:	Mainframe(s):
LINEAR SYSTEM ANALYSIS AND FEEDBACK COMPENSATOR DESIGN	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

This applications PAK for the HP-85 is a menu-oriented, prompt-driven, interactive program for analyzing linear systems and designing feedback compensators. Transfer function blocks may be entered in feedforward and feedback configurations to realize transfer functions for complicated linear systems.

The software computes, lists, and plots the following time domain data:

(i) impulse response
(ii) step response

The user may read time delay, rise time, and settling time.

The following frequency domain characteristics are computed, listed, and plotted:

(i) Bode plots (magnitude and phase)
(ii) Nyquist plots
(iii) root-locus plots

Gain and phase margins are computed and listed.

The PAK is organized for interactive analysis and design. Time and frequency domain plots may be overplotted to observe effects of parameters variations on response characteristics.

Retail Price: $250.00

Company Name: PARAMETRICS, INC.
Contacts: Louis L. Scharf
James A. Krack

Address: 1129 W. Oak
Ft. Collins, CO 80521

Telephone: (303) 221-3163

SYSTEM REQUIREMENTS

Computer Model: HP-85

Peripherals:

Memory: 16K Memory Module
Plotter/Printer Rom

Operating System:

Other Software: OPTIONAL: HP7225A Graphics Plotter
HPIB Interface Module

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: 93 Page Manual containing theory, applications, instructions, and worked-out examples.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

PARAMETRICS provides in-plant tutorials on system analysis and digital filtering.

This software is of use to electrical, mechanical civil, and chemical engineers engaged in the analysis and design of linear systems and feedback compensators.

Allow 3 weeks for delivery.

RESPONSIBILITIES STATEMENT

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: AC Circuit Analysis Application Pac	Mainframe(s): HP-83/85

Software Description: The Circuit Analysis software package allows the user to model a circuit and to examine its AC performance quickly, easily, and accurately. By simulating the design on a Series 80 computer, design problems can be recognized early in the development process, before large investments have been made.

With the computer's interactive mode of operation, optimal solutions can be easily designed. To evaluate alternative designs, the user simply inputs new values for variables and reruns the simulation until the most desirable response is achieved.

Key features of the pac are:

- -Up to 9 nodes and 12 components can be analyzed. That capacity can be increased to as many as 16 nodes and 40 components by adding the optional 16K byte memory module.
- -Components allowed are resistors, capacitors, inductors, voltage-controlled sources and independent current sources.
- -Analysis can be either log or linear sweep, or single frequency points.

The following parameters can be calculated:

Node voltage (magnitude and phase); Branch voltage (magnitude and phase); Branch current (magnitude and phase); Branch power (complex); and Ratio of any two of the preceeding (in decibels if desired).

Families of curves may be plotted on the same axis.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13006

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Waveform Analysis Application Pac	Mainframe(s): HP-83/85

Software Description: Waveform analysis has become increasingly important in acoustics, bioengineering, vibration analysis and image processing. Functions within the Waveform Analysis Application Pac include:

Hanning Function; Power Spectrum; Auto Correlation; Cross Correlation; Cross Power; Convolution; Change Domain; Modulation; F(s) Equal; and F(s) Unequal.

Data input and output functions are also included.

Data Input: With this operation, single functions can be input. The structure of the pac and the computer allow the user to analyze up to 512 data points. With the optional memory module attached to the Series 80 computer, up to 2,048 data points can be analyzed.

Double Data Input: Information on two separate functions can be entered into the system using double data input, with each function characterized by up to 256 data points on the computer or 1,024 data points using 32K memory.

Print: The print function directs the system to output data to the specified printer.

Plot: Using the plot function, the user can direct the system to output data to the graphics section of the CRT. The plots are fully annotated.

Edit: The edit function allows the user to alter time and frequency domain data and to store it on a tape cartridge or disc.

Price: $95.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13035

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Surveying Application Pac	Mainframe(s): HP-83/85

Software Description: The Series 80 Surveying Pac contains a group of programs chosen to aid surveyors in many of their most often encountered computations. It allows for fast and easy calculations, improves computational accuracy, and maintains coordinate point storage for easy recall of data. By using an executive program, the user has access between programs without losing stored data. The Surveying Pac also enables the user to manipulate up to 150 traverse points in a Series 80 Personal Computer using 16K memory. These points can be entered, edited or recalled for future use.

Programs included in the Series 80 Surveying Pac allow the user to:

- -Reduce field data for traverses, inverses and sideshots. (Slope distances and curved sides may be included.)
- -Make traverse adjustments by compass, transit, or Crandall's Rule.
- -Use closure routines to determine areas and distances traversed.
- -Calculate coordinate transformations.
- -Compute intersections and offsets from a point to a line.
- -Solve universal triangles.
- -Calculate parameters of circular curves, horizontal curve layout, vertical curves and grades.
- -Compute earthwork volume using the method of Average End Area, the volume of a Borrow Pit, or the resection points and land parcels within a predetermined area.

Most of the programs also provide the ability to plot data or layout on a Series 80 CRT or a peripheral plotter.

Price: $200.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13046

Other

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Math Application Pac	Mainframe(s): HP-83/85

Software Description: The Math Application Pac provides quick access to commonly employed mathematical routines for use with calculus, numerical analysis, linear systems, geometry and special functions. The manual describes each program in the pac and provides relevant equations, user instructions and example problems. Programs contained in the Series 80 Math Pac include:

-Simultaneous Equations - solves the system of equations Ax=b by using Gaussian Elimination to ensure a high degree of accuracy. The program handles up to 25 equations and includes an automatic bad-data check that detects most cases of illegal data entry.
-Solution to f(x)=0 on an Interval - given a first guess, will search for the real root of the equation f(x)=0, where the user defines the continuous, real-valued function f(x) in the program memory.
-Integration with Equally and Unequally Spaced Points - approximate $\int f(x)dx$ where f(x) is represented by discrete function values at equally or unequally spaced points.
-Ordinary Differential Equations uses the Runge-Kutta method for solving systems of first order, ordinary differential equations.
-Chebyshev Polynomial program fits up to 450 points to a Chebyshev polynomial and performs interpolation on the polynomial.
-Fourier Series for Equally and Unequally Spaced Points performs a Fast Fourier and Inverse Fast Fourier Transform on a set of up to 512 time-domain points.
-Complex Number Operations - Hyperbolic sine, cosine, tangent and their inverses; complex operations: addition, multiplication, division, ln z, e^z, z^n, $z^{1/n}$; complex polymonial evaluation.
-Traingle Solutions - given any three variables of any defined plane triangle, the other three variables and the area are computed.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13005

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Math Application Pac - German

Mainframe(s): HP-83/85

Software Description: The Math Application Pac provides quick access to commonly employed mathematical routines for use with calculus, numerical analysis, linear systems, geometry and special functions. The manual describes each program in the pac and provides relevant equations, user instructions and example problems. Programs contained in the Series 80 Math Pac include:

-Simultaneous Equations - solves the system of equations Ax=b by using Gaussian Elimination to ensure a high degree of accuracy. The program handles up to 25 equations and includes an automatic bad-data check that detects most cases of illegal data entry.
-Solution to f(x)=0 on an Interval - given a first guess, will search for the real root of the equation f(x)=0, where the user defines the continuous, real-valued function f(x) in the program memory.
-Integration with Equally and Unequally Spaced Points - approximate f(x)dx where f(x) is represented by discrete function values at equally or unequally spaced points.
-Ordinary Differential Equations uses the Runge-Kutta method for solving systems of first order, ordinary differential equations.
-Chebyshev Polynomial program fits up to 450 points to a Chebyshev polynomial and performs interpolation on the polynomial.
-Fourier Series for Equally and Unequally Spaced Points performs a Fast Fourier and Inverse Fast Fourier Transform on a set of up to 512 time-domain points.
-Complex Number Operations - Hyperbolic sine, cosine, tangent and their inverses; complex operations: addition, multiplication, division, ln z, e^z, z^n, $z^{1/n}$; complex polynomial evaluation.
-Triangle Solutions - given any three variables of any defined plane triangle, the other three variables and the area are computed.

Price: $95.00

Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Math Application Pac - French	Mainframe(s): HP-83/85

Software Description: The Math Application Pac provides quick access to commonly employed mathematical routines for use with calculus, numerical analysis, linear systems, geometry and special functions. The manual describes each program in the pac and provides relevant equations, user instructions and example problems. Programs contained in the Series 80 Math Pac include:

-Simultaneous Equations - solves the system of equations Ax=b by using Gaussian Elimination to ensure a high degree of accuracy. The program handles up to 25 equations and includes an automatic bad-data check that detects most cases of illegal data entry.
-Solution to f(x)=0 on an Interval - given a first guess, will search for the real root of the equation f(x)=0, where the user defines the continuous, real-valued function f(x) in the program memory.
-Integration with Equally and Unequally Spaced Points - approximate $f(x)dx$ where f(x) is represented by discrete function values at equally or unequally spaced points.
-Ordinary Differential Equations uses the Runge-Kutta method for solving systems of first order, ordinary differential equations.
-Chebyshev Polynomial program fits up to 450 points to a Chebyshev polynomial and performs interpolation on the polynomial.
-Fourier Series for Equally and Unequally Spaced Points performs a Fast Fourier and Inverse Fast Fourier Transform on a set of up to 512 time-domain points.
-Complex Number Operations - Hyperbolic sine, cosine, tangent and their inverses; complex operations: addition, multiplication, division, ln z, e^z, z^n, $z^{1/n}$; complex polynomial evaluation.
-Triangle Solutions - given any three variables of any defined plane triangle, the other three variables and the area are computed.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

Computer Museum

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13031

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Math Application Pac - Spanish	Mainframe(s): HP-83/85

Software Description: The Math Application Pac provides quick access to commonly employed mathematical routines for use with calculus, numerical analysis, linear systems, geometry and special functions. The manual describes each program in the pac and provides relevant equations, user instructions and example problems. Programs contained in the Series 80 Math Pac include:

- Simultaneous Equations - solves the system of equations Ax=b by using Gaussian Elimination to ensure a high degree of accuracy. The program handles up to 25 equations and includes an automatic bad-data check that detects most cases of illegal data entry.
- Solution to f(x)=0 on an Interval - given a first guess, will search for the real root of the equation f(x)=0, where the user defines the continuous, real-valued function f(x) in the program memory.
- Integration with Equally and Unequally Spaced Points - approximate $\int f(x)dx$ where f(x) is represented by discrete function values at equally or unequally spaced points.
- Ordinary Differential Equations uses the Runge-Kutta method for solving systems of first order, ordinary differential equations.
- Chebyshev Polynomial program fits up to 450 points to a Chebyshev polynomial and performs interpolation on the polynomial.
- Fourier Series for Equally and Unequally Spaced Points performs a Fast Fourier and Inverse Fast Fourier Transform on a set of up to 512 time-domain points.
- Complex Number Operations - Hyperbolic sine, cosine, tangent and their inverses; complex operations: addition, multiplication, division, ln z, e^z, z^n, $z^{1/n}$; complex polynomial evaluation.
- Triangle Solutions - given any three variables of any defined plane triangle, the other three variables and the area are computed.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13033.

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: General Statistics Application Pac

Mainframe(s): HP-83/85

Software Description: The General Statistics Pac offers extensive flexibility in evaluating data:

One-Sample Analysis - Basic Statistics; Ranking; Histogram; t Test; Chi-Squared Goodness of Fit.

Paired Sample Analysis - Paired t Test; Polynomial Regression; Family Regression; Sign Test; Wilcoxon Signed Rank Test; Spearmans' Rho and Kendall's Tau.

Test Statistics - Chi-Square Test for Equal and Unequal Expected Values; R X C Contingency Table; Two Sample t Test; One- and Two-Way Analysis of Variance.

Statistical Distributions section is intended to eliminate the need for most statistical tables. The right-tail probability is available for Normal; F; Student's t; Weibull; and Chi-square continuous distributions and Binomial; Poisson; and Hypergeometric discrete distributions.

Multiple Linear Regression prints means and variances for all variables. Calculates a least squares regression on up to 12 independent variables and prints the multiple correlation coefficient. Prints correlation matrix, analysis of variance table, estimates of variances and t values for the regression coefficients. Allows the user to compute estimates of the dependent variable based on the regression coefficients and independent variable values.

Price: $95.00

Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: General Statistics Application Pac - German	Mainframe(s): HP-83/85

Software Description: The General Statistics Pac offers extensive flexibility in evaluating data:

One-Sample Analysis - Basic Statistics; Ranking; Histogram; t Test; Chi-Squared Goodness of Fit.

Paired Sample Analysis - Paired t Test; Polynomial Regression; Family Regression; Sign Test; Wilcoxon Signed Rank Test; Spearmans' Rho and Kendall's Tau.

Test Statistics - Chi-Square Test for Equal and Unequal Expected Values; R X C Contingency Table; Two Sample t Test; One- and Two-Way Analysis of Variance.

Statistical Distributions section is intended to eliminate the need for most statistical tables. The right-tail probability is available for Normal; F; Student's t Weibull; and Chi-square continuous distributions and Binomial; Poisson; and Hypergeometric descrete distributions.

Multiple Linear Regression prints means and variances for all variables. Calculates a least squares regression on up to 12 independent variables and prints the multiple correlation coefficient. Prints correlation matrix, analysis of variance table, estimates of variances and t values for the regression coefficients. Allows the user to compute estimates of the dependent variable based on the regression coefficients and independent variable values.

Price: $95.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13016

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: General Statistics Application Pac - French

Mainframe(s): HP-83/85

Software Description: The General Statistics Pac offers extensive flexibility in evaluating data:

One-Sample Analysis - Basic Statistics; Ranking; Histogram; t Test; Chi-Squared Goodness of Fit.

Paired Sample Analysis - Paired t Test; Polynomial Regression; Family Regression; Sign Test; Wilcoxon Signed Rank Test; Spearmans' Rho and Kendall's Tau.

Test Statistics - Chi-Square Test for Equal and Unequal Expected Values; R X C Contingency Table; Two Sample t Test; One- and Two-Way Analysis of Variance.

Statistical Distributions section is intended to eliminate the need for most statistical tables. The right-tail probability is available for Normal; F; Student's t; Weibull; and Chi-square continuous distributions and Binomial; Poisson; and Hypergeometric discrete distributions.

Multiple Linear Regression prints means and variances for all variables. Calculates a least squares regression on up to 12 independent variables and prints the multiple correlation coefficient. Prints correlation matrix, analysis of variance table, estimates of variances and t values for the regression coefficients. Allows the user to compute estimates of the dependent variable based on the regression coefficients and independent variable values.

Price: $95.00

Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Hewlett-Packard product number 00085-13017

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Basic Statistics and Data Manipulation Application Pac	Mainframe(s): HP-83/85

Software Description: The Basic Statistics and Data Manipulation routines are capable of handling a maximum of 12 variables and 500 data values. A maximum of ten subfiles can be specified. More data values can be used by adding the 16K Memory Module.

-Start: This routine allows the user to enter data from a file or the keyboard and related information into memory. Data input even has a provision for missing values.
-Edit: The editing functions can be broken into three categories: changing data values, naming variables, and changing subfile specifications.
-Transform: Several algebraic transformations are supplied, in addition to a transformation that standardizes the data. The user can also define his own transformation. Missing value assignment allows the user to tell the program what value was used to denote missing data. The recording feature allows data to be categorized by assigning a code to a range of values of the original variable. The sort option allows the data to be arranged in ascending order, based on the values of a specified variable.
-List: The listing feature allows the user to obtain a copy of the data at any point in the analysis, either on the CRT or on a printer.
-Store: This option stores the data set and related information on any compatible mass storage device.
-Statistics: These routines calculate some simple statistics which help describe data. The following statistics are computed: Number of Observations; Mean and Median; Minimum and Maximum; Range and Midrange; Standard Deviation; Confidence Interval on the Mean; Coefficient of Variation; Correlation Matrix; Standard Error; 25th and 75th Percentile.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13036

SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Regression Analysis Application Pac	Mainframe(s): HP-83/85

Software Description: Finding the relationship between a dependent variable and one or more independent variables is a statistical technique frequently used and available with the Regression Analysis Application Pac*. After entering data using the Basic Statistics and Data Manipulation Pac (sold separately) models can be built using the regression analysis programs.

Polynomial Regression fits a polynomial of the form $y=a_0+a_1x+a_2x^2+...+a_nx^n$ to the user's data, using the least squares method to determine the coefficients. Program output includes: Mean, standard deviation, coefficient of variation of the dependent and independent variables; Correlation coefficient, r^2, standard error of estimate; Analysis of variance table with F ratios; Computed regression coefficients together with their associated standard errors and t values; and Confidence interval for each coefficient. A scatter plot of data and plots of any of the polynomials the user has chosen to examine can be obtained.

Multiple Linear Regression fits a model of the form $y=a_0=a_1x_1=a_2x_2=...=a_mx_m$ to the user's data, using the least squares method.

Multiple Linear Regression with Four Variable-Selection Procedures allows the user to examine an analysis of variance table at each step of the routine and delete insignificant variables from those previously added. The program also provides forward, backward, and stepwise selection.

Residual Analysis will automatically determine the differences between actual Y-values and predicted Y-values. This program prints a table of residuals and may plot the standardized residuals either against the observation number or against any variable.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

* The Regression Analysis Pac must be used in conjunction with the Basic Statistics and Data Manipulation Pac.

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Contact your dealer or Hewlett-Packard. *Hewlett-Packard product number* 00085-13037

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10043
Application Code: 500-9001
Expiration Date:

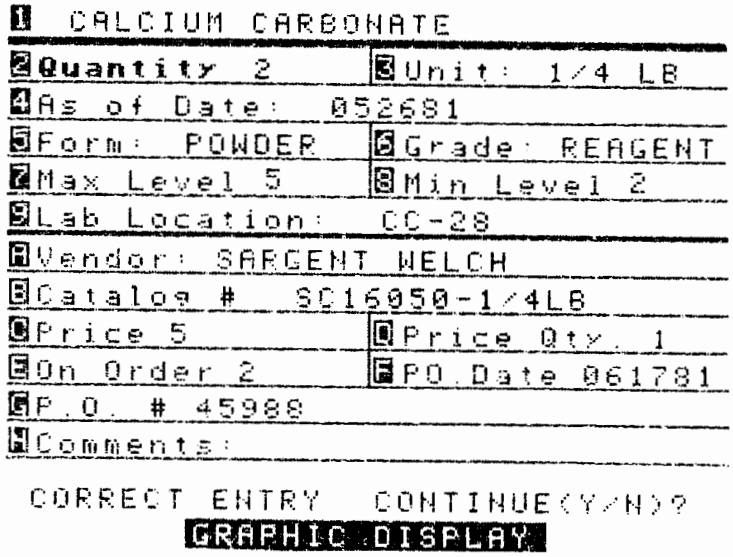
Product Name:	Mainframe(s):
ChemInventory - Tape Cartridge	HP-85

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

ChemInventory has been designed by a Chemist to efficiently manage any type of laboratory's chemical inventory. The tape version will run on the 16K HP-85 providing storage of 700 chemicals per tape. Multiple tapes may be used. Chemical search techniques will accept abbreviations allowing chemical catagory search along with specific record search, such as "all calcium chemicals." The data handling system used in ChemInventory not only provides alphabetizing but a very quick retrieval time for any chemical record. A GRAPHIC DISPLAY is used for chemical data entry for new records, data changes for updates, and as an easy to read display of the chemical record.

Features

Alphabetical listings
Physical Inventory Forms
Chemical Reorder Report Generator
Backorder Reports
Chemical Update Ageing Reports
Precoded-Vendor, Form & Grade entries
Data Tape Duplication
Increase or decrease File size
Extensive Manual Support
Designed to be easily modified for lab needs



Retail Price: $695.00

Company Name: Scientific Frontiers, Inc.
Address: P.O. Box 880036
Steamboat Springs, Co. 80488

Telephone: (303) 879-1228

Contacts: Gregory H. Smith
Jeffry K. Troeger

SYSTEM REQUIREMENTS

Computer Model: HP-85 Computer w/standard 16K RAM. Peripherals:

Memory:

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☒ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

Scientific Frontiers, Inc. will modify ChemInventory to the licencee's requirements.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: The program and manual are easily mastered in a few hours. Additional onsite instruction is available at additional cost. Price:

Documentation Available: 38 page manual which assumes computer inexperience. Numerous walk-through examples are included. Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS: **DATE OF FIRST INSTALLATION:**

ADDITIONAL INFORMATION

Scientific Frontiers, Inc. is a laboratory design and software company providing laboratory computurization, consulting, as well as computer programs (canned and custom) for the laboratory industry.

RESPONSIBILITIES STATEMENT

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Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10027
Application Code: 700-9001
Expiration Date:

Product Name:	Mainframe(s):
I. DIABETES EDUCATOR II. HYPERTENSION EDUCATOR	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific detaiis, major features and benefits, etc.)

Ia DIET RECALL -- The user enters the patient's age, height, weight, body habitus, activity level, gender and pregnancy/lactation status. A one-day caloric goal and an ideal distribution of calories, protein, fat and carbohydrate are displayed and printed. If actual weight diverges seven percent from target weight, the caloric goal is adjusted to direct the subject toward normalcy. The previous day's entire caloric consumption is entered -- food by food, quantity by quantity. When complete, the display shows actual consumption versus goal and projects weight, one year hence. Recommended changes in protein, fat and carbohydrate are printed for home study.

Ib DIABETES EDUCATION -- Five subsets of instruction are displayed. The user selects one. Singularly, a series of 10 to 41 pertinent questions (112 total) are displayed; each accompanied by its proper answer. The user interrogates the patient and inputs correctness of the response. Questioning contiunes until seven incorrect answers occur. A simple, instructional declarative statement is made for each missed question and printed. Analogies are used as needed for clarity; narrative is set to the 4th grade level; medical terms are avoided.

IIa HYPERTENSION EDUCATION -- Identical concept as in I-b with 38 questions used.

IIb HYPERTENSION TRIAGE -- The user inputs present blood pressure, patient age, visit number and medication use. The display instructs if, and/or when, physician referral should occur.

Retail Price: $95.00

Company Name: MEDICAL LOGIC INTERNATIONAL
Address: 5 Pathfinder Drive, Sumter SC 29150
Contacts: Galen B. Cook MD FACS C.E.O.
Telephone: (803) 469-9180

SYSTEM REQUIREMENTS

Computer Model: HP-85A

Peripherals:

Memory: 32K

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

The supplier will modify these programs on a timely basis as new medical information is generated to assure remaining contemporary with extant clinical knowledge.

CUSTOMER TRAINING/DOCUMENTATION

Training Available: Less than 30 minutes of "hands on" experience is required by the user to properly operate these algorithms, if familiar with the general operation of an H.P. microcomputer. Price:

Documentation Available: 10 page manual Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

Printed in U.S.A. 8/81 5953-0646

Software Supplier Product Summary

SERIES 80 SOFTWARE

HP USE ONLY
I.D. Code: 10003
Application Code: 800-9001
Expiration Date:

Product Name:	Mainframe(s):
Expert Blackjack MHS-X001	HP-85A

PRODUCT DESCRIPTION: (please begin with a product abstract, then include basic product information, user-specific details, major features and benefits, etc.)

The program teaches the user the optimum strategy for playing the game of Blackjack. It consists of four parts:

1. Card Counting, where cards are flashed on the screen
2. Difficult Hand Practice, where all of the troublesome hands are reviewed
3. Betting Practice which teaches the optimum bet to place and,
4. An Actual Blackjack game, where all the rules are allowed and the player is tested for best play. The program generates statistics on the man's play as well as the strategy being used.

Retail Price: $200.00

Company Name: MOUNTAIN COMPUTER, INC.
Address: 300 Harvey West Blvd.
Santa Cruz, CA 95060

Telephone: (408) 429-8600

Contacts: Gary Muhonen-Technical
Tom Scott-Sales

SYSTEM REQUIREMENTS

Computer Model: HP-85A (32k System)

Peripherals:

Memory: 82903A Memory Module

Operating System:

Other Software:

CUSTOMER SUPPORT

Geographic Area Supported:

☐ Worldwide	☐ Canada	☐ Europe (all)	☐ Far East (all)
☒ U.S. (all regions)	☐ Mexico	☐ _____	☐ _____
☐ East	☐ Latin America (all)	☐ _____	☐ _____
☐ South	☐ _____	☐ _____	☐ _____
☐ Midwest	☐ _____	☐ _____	☐ _____
☐ West	☐ _____	☐ South Africa	☐ Australia/N.Z.

Support Services Available:

☒ phone-in support	☒ mail-in support	☐ remote dial-in
☐ on-site consulting	☐ on-site systems engineers	☐ program modification

Additional Support Information and Pricing:

CUSTOMER TRAINING/DOCUMENTATION

Training Available:

Price:

Documentation Available: Software manual and Blackjack book enclosed with package.

Price:

Documentation Available in other languages:

NUMBER OF INSTALLATIONS:

DATE OF FIRST INSTALLATION:

ADDITIONAL INFORMATION

RESPONSIBILITIES STATEMENT

This software was developed by an independent software supplier for operation on HP equipment. The supplier is solely responsible for its software and support services. HP is not the manufacturer or co-developer of this software and makes no endorsement, representation or warranty, express or implied, with respect to the supplier, its products or its services.

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Games Application Pac	Mainframe(s): HP-83/85

Software Description: The 19 programs of the Games Pac are designed primarily to provide fun. Included are card games, board games, dynamic action games, word games, and pattern generation programs. Some of the programs included in the Games Pac are:

-Blackjack - the game of 21, designed to be played by as many as 6 players.

-Slot Machine - a graphical presentation of the familiar one-armed bandit.

-Poker Solitaire - where the computer plays the same cards as you. Good strategy game.

-Sea Skirmish - a video game for one or two players with the object to sink the ship!

-Race Track - played on a randomly generated track and up to 4 players can race.

-Hangman - the familiar word guessing game. Try to guess one of the computer's words or a word someone else has entered.

-Maze Generator - generates random mazes to solve.

-Cribbage - an electronic version of the English game which pits you against the computer. The characteristic cribbage board for scoring is used on the graphics screen.

-Reversi - a game developed originally in England involving complex strategies.

-Race - a car racing game in which you, the driver, try to get the fastest time while keeping your car on the track.

-Nim - a classic computer game in which you compete against the computer to see who takes the last star from several piles.

-Birthday Plot - this program will design your very own birthday plot based on the date of your birth.

Price: $95.00 Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

Computer Museum

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title:	Mainframe(s):
GAMES II APPLICATION PAC	HP-83/85

Software Description:

The 12 programs of the Games II Pac are a set of action games which are heavily dependent on CRT graphics and the usage of the special function keys. The programs included in the Games II Pac are:

FATCAT - You control the mouse and eat all the cheese before the cat catches you.

TANK - You try to knock out a set of targets while under fire.

ASTEROIDS - You try to knock out a set of targets while under fire.

RATPAK - Try to exterminate rabid rats that are constantly after you.

DODGE - An electronic dodge game while moving through a maze.

BULLPEN - Move blocks around to pen in the bulls before they get you.

MOON LANDER - Simulates the landing of a lunar lander on a random terrain.

SPACE WARS - As commander of a spaceship, your mission is to stop an enemy invasion.

BARRAGE - You must fend off the attacking aliens.

BATS - Avoid swooping bats and knock them out.

GNOME - A treasure seeking game of adventure.

GOLFER - A graphic simulation of a nine-hole golf course.

Price: $95.00

Number of bytes _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs:

Peripherals:

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SERIES 80 SOFTWARE

HEWLETT-PACKARD
SOFTWARE SUMMARY

Catalog No.

Software Title: Text Editing Application Pac	Mainframe(s): HP-83/85

Software Description: The Text Editing Pac allows the user to write memos, outlines, and reports on the CRT screen and edit the copy by changing words and moving sections. Text can be saved on tape or disc and can be recalled later for further editing or hard-copy printout. In addition, the text editing software provides the user with the following commands:

ADD: This function lets the user add to existing text from either the keyboard or a tape/disc file. Where the new text should be added can be specified exactly.

DELETE: This feature allows text to be deleted from memory by line number. For longer passages, the first and last lines to be deleted within a block of text can be specified and the entire block will be deleted.

REPLACE: By first specifying the lines to be replaced and then the source of the new text, text already in memory can be changed. Entire blocks of text can be replaced simply by specifying the first and last lines of the section to be altered.

MOVE: This option allows lines of text which are in memory to be moved. The user can specify the exact locations of the lines to be moved and their destinations, or move an entire block of text by identifying only the first and last lines of the block.

RENUMB: When text is edited, line numbers are not automatically associated with edited lines. The RENUMBer feature lets the user assign line numbers to these lines.

Price: $95.00 **Number of bytes** _____

HARDWARE REQUIRED (OPTIONAL)

Mainframe: HP-83/85

Memory Options:

ROMs: HP Plotter/Printer ROM (00085-15002) for use with HP-83*

Peripherals: Printer for use with HP-83*

*Recommended

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