

9826/9836/9845 Desktop Computer Software Pricing Information



Effective Date: March 1982

Introduction

Application software for Hewlett-Packard desktop computers falls into three broad categories - (1) HP Software, which is developed, sold and supported by HP, (2) HP Plus Software, developed by third parties and either distributed, referenced or listed (but not supported) by HP and (3) Exchange Library Software, developed by HP desktop computer users and contributed on an exchange (or small fee) basis to the library. Only HP and HP Plus software (distributed and referenced) are listed in this publication. Detailed information on all categories can be obtained from the HP Technical Computer Software Catalog, described on the back page.

How Software is Listed

Software is listed by the computer(s) on which it runs - the 9845B/C and the 9826A/9836A - and also the order in which it appears in the Catalog (see application code following description). All HP PLUS software is designated by "HP +"; distributed HP PLUS software also includes a part number.

Equipment Required

Information given under "Equipment Required" is minimum - memory, major hardware and peripherals; smaller items have been omitted. Configuration is critical for all software, however, so you should discuss it in detail with your HP sales representative. The HP Technical Computer Software Catalog also provides further information. The following abbreviations apply:

Read/write memory	187K, 320K, 449K, etc.
Graphics	gr
Graphics tablet	gr tab
Internal printer	int pr
External printer	ext pr
Second tape drive	sec tp
External mass storage	ext ms str
Plotter	pl
BASIC 2.0 Language System	B2.0



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Computer-Aided Design and Engineering (CAD & CAE)

Electrical Engineering

Ordering No.	Description	Equipment Required	Price
HP +	MICRO-AMPSYN A direct synthesis computer-aided design (CAD) program for designing high-frequency and/or microwave matching networks, including amplifier input and interstage circuits. (11.21001)	180K, gr, int pr, sec tp	
HP +	MICRO-COMPACT Analyzes and optimizes two-port linear circuits in the frequency domain. Basic building blocks are combined to form the final circuit. Flexible graphics package plots vital circuit information. (11.21002)	180K, gr, int pr, sec tp	
HP +	COMTRAN (Computerized Optimization and Transient Analysis) A general-purpose linear circuit analysis program aimed at low-frequency circuit design. Calculated frequency domain results include voltage gain, nodal impedances, time delay and tolerance effects. (11.21003)	180K, gr, int pr, sec tp	
HP +	MAMA A microwave analysis program written especially for the HP 9845 and the HP 8409B network analyzer. Designed for the most accurate measurement and calibration possible. Interfaces with MICRO-COMPACT. (11.21004)	180K, gr, int pr, sec tp	
09845-12600	Waveform Analysis Provides discrete mathematical representation of data via Fourier-transform and associated algorithms such as convolution and correlation. Outputs may be displayed, printed or plotted. (11.21005)	56K, gr, int pr, optional pl	
09845-12610	Digital Simulation Provides gate-level simulation of digital logic networks. Allows for timing and logic analysis with output in either tabular or graphic form. (11.22006)	187K, gr	
09845-12620	AC Circuit Analysis Calculates the frequency response of linear circuits. Magnitude, phase, time and impedance plots are available. These plots can include the effects of component tolerances. (11.22007)	187K, gr, int pr, optional pl	
09845-15190	Linear Systems Analysis Analyzes single-input/single-output linear systems using Root Locus, Nyquist, Step Response, Impulse Response and Bode plots. Linear systems can be in the form of block diagrams or simple transfer functions in LaPlace(s) notation. (11.22008)	187K, gr, int pr, optional pl	
09845-12920	Digital Filter Design Includes both Infinite Impulse Response and Finite Impulse Response digital filters, plus routines for transforming analog H(s) to digital filter functions H(Z). Magnitude and phase plots measure actual performance of filters. (11.22009)	187K, gr, int pr, optional pl	

Mechanical Engineering

Ordering No.	Description	Equipment Required	Price
HP +	FESDEC (Finite Element Systems for Desktop Computers) A finite element system written especially for desktop computers. Combines finite element method with interactive graphics and desktop convenience. Covers all classes of two- and three-dimensional problems. (12.21001)	187K, gr, ext pr, sec tp, ext ms str	
HP +	SDM (Structural Dynamics Modification) Uses modal data to investigate the effects of potential design changes on test structures. Especially useful to laboratories engaged in troubleshooting noise, vibration and failure problems. (12.21003)	187K, gr, int pr, sec tp	

Ordering No.	Description	Equipment Required	Price
HP +	MADAM (Modal Analysis and Data Management) Overcomes lack of long-term storage on small two-channel spectrum analyzers. Recently expanded to include small-scale modal analysis. Includes Data Management, Data Plotting, Functions and Modal Parameter Management. (12.21004)	64K, gr, int pr, sec tp	
HP +	AIMS (Acoustic Intensity Measurement System) Developed to overcome the problems of identifying and tracking various noise-radiating components of a complex mechanical system. Includes intensity, pressure and sound power spectra. (12.21005)	64K, gr, int pr, sec tp	
HP +	SMAP (Spectrum Mapping System) Shows measured or analytical functions (time, frequency or other domain) as a function of some other parameter - operating speed, temperature, pressure, voltage, etc. on a single three-dimensional plot. (12.21006)	64K, gr, int pr, sec tp	
HP +	OSLO-45G Solves the majority of optical design problems. Carries out complete first- and third-order analyses of systems, exact ray tracing, geometrical image analysis, radial energy distributions and transfer functions. (16.21001)	187K, gr, int pr, sec tp, ext ms str, pl	
HP +	DP-1 (Drafting Package-1) A straightforward, easy-to-use, two-dimensional drafting system. Uses symbols and names familiar to draftsmen, designers and engineers. Contains generally-accepted line types, line functions, circles, arcs and dimensioning. (16.21002)	318K, gr, gr tab, int pr, sec tp, ext ms str, pl	
98300A	EGS/45 (Engineering Graphics System/45) A computer-aided engineering (CAE) system especially suited to electronic design and the documentation associated with it. Consists of General Drawing Core, PC Board Layout Module, Schematic Drawing Module and Graphics Editor. (16.22001)	449K, gr, gr tab, int pr, ext ms str, optional ext pr, pl	
98301A	EGS/45 General Drawing Core Features graphics editor which creates drawings via lines, circles, rectangles, etc., as well as text. Combinations can be stored for later use. Uses include overhead slides, floor plans and project schedule diagrams.		
98302A	EGS/45 Schematic Drawing Module This module uses the General Drawing Core to create schematics and automated lists of materials. Contains the most common electronic symbols and can accommodate those for floor plans and other schematics.		
98303A	EGS/45 PC Board Layout Module Uses General Drawing Core to create and plot printed circuit (PC) board layouts and provides data to drive photoplotters and numerically controlled drills. Does not perform autorouting or design rule verification.		
98300R	EGS/45 Right to Reproduce and Sublicense Confers the right to reproduce and sublicense one (1) copy of the entire EGS/45 package.		
98300M	EGS/45 Right to Reproduce without Sublicense Confers the right to reproduce without sublicensing one (1) copy of the entire EGS/45 package.		
98301T 98302T 98303T	EGS/45 Software Support Consists of either Customer Support Service or Software Subscription Service for the different EGS/45 constituent modules. Customer may buy one but not both. Customer Support Service General Drawing Core Schematic Drawing Module PC Board Module		
98301S 98302S 98303S	Software Subscription Service General Drawing Core Schematic Drawing Module PC Board Module		

Mathematics and Statistics

Ordering No.	Description	Equipment Required	Price
09845-10350	Numerical Analysis Library Contains seven main sections – rootfinders, numerical integration, ODE solvers, Eigen analysis, interpolation, general functions and Fourier analysis. (41.22001)	56K	
09845-15100	Basic Statistics and Data Manipulation Provides comprehensive summary statistics as well as routines for entering, editing, naming, recoding, sorting, storing, transforming and listing data for statistical analysis by other programs. (42.22002)	56K	
09845-15110	Regression Analysis Performs multiple linear regression, variable selection methods, polynomial regression and residual analysis. Uses Marquardt's Method for non-linear models. Includes Basic Statistics and Data Manipulation. (42.22003)	56K, gr	
09845-15200	Statistical Graphics Contains nine routines for plotting statistical data – time plot, histogram, probability plots, x-y scatter plot, semi-log plot, log-log plot, xyz plot and Andrews plot. Includes Basic Statistics and Data Manipulation. (42.22004)	56K, gr, pl	
09845-15130	General Statistics Contains parametric and non-parametric tests for single sample, paired sample, two independent sample and multiple sample data. It has statistical distributions which eliminate need for tables. Includes Basic Statistics and Data Manipulation. (42.22005)	56K, gr	
09845-15140	Non-Linear Regression Uses Marquardt's Method to fit non-linear models using up to ten parameters and allows residual analysis. Includes Basic Statistics and Data Manipulation. (42.22006)	56K, gr	
09845-15160	Monte Carlo Simulation Includes advanced random number generators, random deviate generators for various statistical distributions and a series of tests which aid in the evaluation of simulation studies. (42.22007)	56K	
09845-15170	Analysis of Variance Includes factorial (up to four factors), nested, split-plot, one-way, two-way unbalanced and one-way covariate designs. Also generates contrasts, orthogonal polynomials, multiple comparisons and interaction plots. Includes Basic Statistics and Data Manipulation. (42.22008)	56K, gr	
09845-15080	Principal Components and Factor Analysis Has routines for multivariate analysis, including principal components, factor extraction (principal axes or maximum likelihood method), factor rotations (orthogonal oblique), and plots of case scores. Includes Basic Statistics and Data Manipulation. (42.22009)	187K, gr, int pr, sec tp	
09845-15250	Statistics Library Includes Basic Statistics and Data Manipulation, Regression Analysis, Statistical Graphics, Non-Linear Regression, Monte Carlo Simulation, Analysis of Variance and Principal Components and Factor Analysis. (42.22001)	187K, gr, int pr, sec tp, pl	

Languages

Ordering No.	Description	Equipment Required	Price
97022JA (HP +)	PDS/45 FORTRAN A P-machine compiler compatible with the ANSI Standard FORTRAN 77 subset. Contains many features of the full language, plus a complete new 9845 interactive disc-based operating system, including screen editor, librarian and graphics. (62.21003)	192K, ext ms str, <i>optional gr, int pr, ext pr</i>	
97021JA (HP +)	PDS/45 Pascal Compatible with UCSD Pascal, this P-machine compiler has a complete new 9845 interactive disc-based operating system, including screen editor, librarian and graphics. (63.21002)	192K, ext ms str, <i>optional gr, int pr, ext pr</i>	
97023JA (HP +)	PDS/45 FORTRAN/Pascal Includes both the FORTRAN and Pascal compilers mentioned above, along with the PDS operating system.	192K, ext ms str, <i>optional gr, int pr, ext pr</i>	
97027JA (HP +)	IEM Macro-Assembler An add-on feature for the PDS products above, this product supports machine language programming of procedures and functions which can then be placed in libraries for later access by FORTRAN or Pascal. (64.21001)	192K, ext ms str, <i>optional gr, int pr, ext pr</i>	

Management

Ordering No.	Description	Equipment Required	Price
09845-11100	Project Management Analyzes project networks using CPM, PERT and MPM techniques. The output is in GANTT chart form. (76.22001)	56K, gr, int pr, ext ms str, <i>optional sec tp</i>	
09845-10610	Forecasting Allows time series data to be analyzed, smoothed, forecast and plotted using a variety of statistical techniques. (79.22001)	56K, gr, int pr, <i>optional sec tp, pl</i>	
09845-10540 (9845B) 09845-15230 (9845C)	Graphics Presentations Produces bar, line and pie charts and features four character fonts. Can create seven-color output on either paper or overhead slides. Separate products available for the 9845B and the color 9845C. (79.22002)	187K, gr, int pr, sec tp, pl	
09845-10630	List Management Produces mailing labels and manages a file of names. Performs sorting, sublisting, editing and other listing functions. (79.22004)	56K, int pr, sec tp, <i>optional ext pr, ext ms str</i>	
98816A	CAP/45 (Computer-Aided Presentations/45) Creates graphic images with characters, drawings and charts. Features 4 913 color shades on the 9845C. Photograph as 35mm slides or instant prints, plot to paper or overheads or output to video monitor or camera. (79.22005)	449K, gr, gr tab, <i>optional pl</i>	
98816R	CAP/45 Right to Reproduce and Sublicense Confers the right to reproduce and sublicense one (1) copy of the CAP/45 package.		
98816M	CAP/45 Right to Reproduce Without Sublicense Confers the right to reproduce without sublicensing one (1) copy of the CAP/45 package.		
98094K	CAP/45 Software Support Consists of System Information Service for the HP 9845B/C.		



9826/9836

Computer-Aided Design and Engineering (CAD & CAE)

Electrical Engineering

Ordering No.	Description	Equipment Required	Price
98825A	AC Circuit Analysis Calculates the frequency response of linear circuits. Magnitude, phase, time and impedance plots are available. These plots can include the effects of component tolerances. (11.22007)	320K, B2.0	
98826A	Linear Systems Analysis Analyzes single-input/single-output linear systems using Root Locus, Nyquist, Step Response, Impulse Response and Bode plots. Linear systems can be in the form of block diagrams or simple transfer functions in LaPlace(s) notation. (11.22008)	320K, B2.0, ext pr	
98828A	Digital Filter Design Includes both Infinite Impulse Response and Finite Impulse Response digital filters, plus routines for transforming analog H(s) to digital filter functions H(Z). Magnitude and phase plots measure actual performance of filters. (11.22009)	320K, B2.0	
98827A	Waveform Analysis Signal analysis in the time and frequency domain, using either single or dual channels. Entered from keyboard data file or internal software, data can be scanned, segmented, windowed, FFT'd, correlated and fitted to an AR model. (11.22010)	320K, B2.0	

Mechanical Engineering

Ordering No.	Description	Equipment Required	Price
HP +	SDM (Structural Dynamics Modification) Uses modal data to investigate the effects of potential design changes on test structures. Especially useful to laboratories engaged in troubleshooting noise, vibration and failure problems. (12.21003)	128K, B2.0	
HP +	MADAM (Modal Analysis and Data Management) Overcomes lack of long-term storage on small two-channel spectrum analyzers. Recently expanded to include small-scale modal analysis. Includes Data Management, Data Plotting, Functions and Modal Parameter Management. (12.21004)	64K, B2.0	
HP +	AIMS (Acoustic Intensity Measurement System) Developed to overcome the problems of identifying and tracking various noise-radiating components of a complex mechanical system. Includes intensity, pressure and sound power spectra. (12.21005)	64K, B2.0	
HP +	SMAP (Spectrum Mapping System) Shows measured or analytical functions (time, frequency or other domain) as a function of some other parameter – operating speed, temperature, pressure, voltage, etc. on a single three-dimensional plot. (12.21006)	64K, B2.0	

Mathematics and Statistics

Ordering No.	Description	Equipment Required	Price
98821A	Numerical Analysis Library Contains seven main sections – rootfinders, numerical integration, ODE solvers, Eigen analysis, interpolation, general functions and Fourier analysis. (41.22001)	320K, B2.0	
98810A	VisiCalc®** Constitutes an "electronic worksheet" for numerical data, text and mathematical expressions. "What if?" games can be played by changing data in the worksheet, with all related information automatically changed. (41.22002)	320K	
98810M	VisiCalc® Right to Reproduce Without Sublicense Confers the right to reproduce without sublicensing one (1) copy of the VisiCalc® package.		
98820A	Statistics Library Includes Basic Statistics and Data Manipulation, General Statistics, Statistical Graphics, Regression Analysis, Monte Carlo Simulation, Analysis of Variance and Principal Components and Factor Analysis. (42.22010)	320K, B2.0	
98820B	Statistics Library, Part I An advanced library of general statistics, Part I consists of Basic Statistics and Data Manipulation, General Statistics, Statistical Graphics and Regression Analysis.	320K, B2.0	
98820C	Statistics Library, Part II An advanced library of general statistics, Part II consists of Monte Carlo Simulation, Analysis of Variance and Principal Components and Factor Analysis. Runs without Part I.	320K, B2.0	

Languages

Ordering No.	Description	Equipment Required	Price
97030JA (HP +)	9826 Multi-FORTH This language maximizes programmer efficiency in laboratory and process control applications. Compatible with FORTH-79 standard, with several extensions to provide full access to 9826/9836 hardware features. (69.21001)	64K, <i>optional ext pr</i>	
97031JA (HP +)	Multi-FORTH Multi-User Option Upgrades Multi-FORTH for simultaneous use by up to 10 users. Requires an RS-232-C-compatible ASCII terminal and 98626A Serial Interface for each user.		
97032JA (HP +)	Multi-FORTH Data Access Methods Library Upgrades Multi-FORTH by providing logical random and indexed file access.		
97033JA (HP +)	Multi-FORTH Metacompiler Provides systems programmers with the software tools needed to produce compact FORTH code for storage in ROM. Includes full source for 9826A Multi-FORTH as text on disc.		

Management

Ordering No.	Description	Equipment Required	Price
98817A	Project Management Analyzes project networks using CPM, PERT and MPM techniques. The output is in GANTT chart form. (76.22001)	320K, B2.0	
98818A	Forecasting Allows time series data to be analyzed, smoothed, forecast and plotted using a variety of statistical techniques. (79.22001)	320K, B2.0	
98815A	Graphics Presentations Produces bar, line and pie charts and features four character fonts. Can create seven-color output on either paper or overhead slides. Separate products available for the 9845B and the color 9845C. (79.22002)	320K, B2.0	

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The HP Technical Computer Software Catalog

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Got problems? We've got solutions — the HP Technical Computer Software Catalog. In fact, it's a virtual *library* of solutions. And the best part is that you don't go to it — it comes to you.

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