SAGE
COMPUTER TECHNOLOGY

PRICE LIST

SEPTEMBER 1, 1983

TERMS:
- These current prices are valid until updated.
- Low volume orders are in stock at your local dealer.
- Contact your local dealer for Educational discounts.

All SAGE microcomputer shipments contain the following standard equipment:

- UCSD p-System version 4.12
- Pascal compiler
- 68000 macro assembler
- Screen-oriented editor
- p-System utilities
- Owner's manual, 448 pages
- Applications software catalogue
- FORTRAN 77 Runtime System
- BASIC Runtime System
- Timberline Spreadsheet Calc Program
- WORD/7 Word processor
- 10' Terminal Cable
- 256 Kbytes of parity RAM
- IEEE-488 interface
- Two or six RS-232C serial ports
- Centronics printer port
- Real-time clock and scheduler
- p-System manuals, 1000 pages
- Intro to UCSD, Grant, 300 pages
- SAGE'S Multi-user System

SAGE COMPUTER SYSTEMS

PART #	DESCRIPTION	PRICE
SC0020	Low profile SAGE IV with one 640K floppy drive (maximum RAM expansion 512K)	$3900.00
SC0021	Low profile SAGE IV with two 640K floppy drives (maximum RAM expansion 512K)	4700.00
SC0022	SAGE IV with one 640K floppy drive and one fixed 6 megabyte Winchester disk drive	7300.00
SC0023	SAGE IV with one 640K floppy drive and one fixed 12 megabyte Winchester disk drive	7900.00
SC0024	SAGE IV with one 640K floppy drive and one fixed 18 megabyte Winchester disk drive	8500.00

RAM EXPANSION

RA0010	1 unit of RAM = 256 Kbytes of Parity RAM	$500.00

NOTE:
Minimum RAM for all SAGE microcomputers is 256K.
1 unit of RA0010 is required to expand min. 256K to 512K RAM.
3 units of RA0010 are required to expand min. 256K to 1024K (1 Meg).
Floppy-based SAGE IV's only allow a maximum of 512K RAM.
512K minimum RAM is required to utilize SAGE's Multi-user.

PERIPHERALS

PH0011	SAGE IV Terminal	$590.00
PH0003	Microline 80 dot-matrix printer, 80 CPS	450.00
PH0008	Microline 92 dot-matrix printer, 160 CPS	690.00
PH0009	Microline 93 dot matrix printer, 180 CPS	1190.00
PH0005	Microline 84 dot-matrix printer, 200 CPS	1350.00
PH0002	Qume Sprint 9/45 printer, letter quality, 45 CPS	2250.00
PH0012	Optical Mouse with interface (hardware only)	290.00

ACCESSORIES

CC0056	10′ SAGE IV terminal cable	$30.00
CC0057	25′ SAGE IV terminal cable	40.00
CC0079	50′ SAGE IV terminal cable	45.00
CC0058	100′ SAGE IV terminal cable	60.00
CC0080	200′ SAGE IV terminal cable	90.00
CC0038C	10′ Modem port terminal cable	30.00
CC0039C	25′ Modem port terminal cable	40.00
CC0077C	50′ Modem port terminal cable	45.00
CC0040C	100′ Modem port terminal cable	60.00
CC0078C	200′ Modem port terminal cable	90.00
CC0034	10′ Serial printer cable, Qume 9/45	30.00
CC0035	25′ Serial printer cable, Qume 9/45	40.00
CC0025	10′ Parallel printer cable, Microline	50.00
CC0026	25′ Parallel printer cable, Microline	75.00
CA0011	2 Meter IEEE-488 cable	95.00
DK0002	Soft-sectored double-sided diskettes, 10 per box	65.00
DK0003	Datalife head cleaning kit, by Verbatim	19.00

SOFTWARE

(UCSD p Operating System)

SF0054	Advanced Aladin Plus, Advanced Data Institute	790.00
SF0051	WORD/7 Word Processor with manual	300.00
SF0022	Timberline Spreadsheet	390.0E
SF0025F	SAGE IV Floppy-based Multi-user	150.00
SF0042E	SAGE Multi-user system	150.00
SF0024	Scenic Sprinter-Z text formatter	350.00
SF0027	Scenic Spelling Checker	125.00
SF0020	Advanced System Editor (ASE), Volition Systems	170.00
SF0049	FORTRAN (p-System) with manual	390.00
SF0050	BASIC (p-System) with manual	390.00
SF0006	SPI LogiCalc spreadsheet	190.00
SF0014	SPI LogiQuest III database system	550.00
SF0015	SPI General Ledger system	390.00
SF0016	SPI Accounts Receivable system	390.00
SF0017	SPI Accounts Payable system	390.00
SF0018	SPI Inventory Control system	390.00
SF0019	SPI Asset (Integrated GL, AR, AP AND Inventory)	1290.00
SF0040	Hyper-FORTH Plus	800.00
SF0007	68000 Native Code Generator	150.00
SF0039	Sources for the Boot ROM, Debugger and BIOS, SAGE IV Z8 AND 9900	50.00

(Digital Research CP/M-68K Operating System)

SF0038	CP/M-68K (Operating System)	$350.00
SF0046	MINCE Word Editor (CPM) with manual	170.00
SF0047	SVS FORTRAN 77 Compiler (CPM) with manual	595.00
SF0048	SVS Pascal Compiler (CPM) with manual	595.00

SF0021	Modula II (Operating System), Volition Systems	$590.00

DOCUMENTATION

DC0037	Extra SAGE Owner's Manual, Vol. I, 448 pages	$35.00
DC0038	Extra SAGE Owner's Manual, Vol. II, 350 pages	35.00
DC0039	Extra SAGE Owner's Manual, Vol. III, 374 pages	35.00
DC0040	Extra SAGE Owner's Manual, Vol. IV, 344 pages	35.00
DC0028	Extra Intro to UCSD p-System, Grant, 300 pages	15.00
DC0012	Extra Applications Software Catalogue, 53 pages	5.00
DC0003	Motorola 68000 user's manual, 231 pages	15.00
DC0029	Introduction to Pascal, Zaks, 420 pages	16.00
DC0030	Pascal Handbook, Tiberghien, 473 pages	20.00
DC0031	SAGE IV Service Manual, 500 pages	80.00
DC0042	Extra MINCE manual	25.00
DC0043	Extra SVS FORTRAN 77 manual	25.00
DC0044	Extra SVS Pascal manual	25.00
DC0045	Extra FORTRAN (p-System) manual	25.00
DC0046	Extra BASIC (p-System) manual	25.00
DC0047	Extra WORD/7 manual	15.00
DC0048	Extra Timberline Spreadsheet manual	50.00

SAGE
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Dear SAGE Inquirer:

Thank you for this opportunity to introduce the SAGE product line. With its low-cost implementation of the 8 megahertz MC68000 processor, SAGE IV microcomputers provide more performance (both speed and capacity) per dollar than any computer in history.

SAGE IV microcomputers can expand to six terminals, 1MB of zero wait-state RAM memory, and 18MB of Winchester hard disk. Other standard features of SAGE IV microcomputers include:

- UCSD p-System Operating System (CP/M-68K, Idris, Modula-2, PDOS, ADA, BOS, Micro APL and Hyper-Forth optional)
- IEEE-488 interface
- Timberline Spreadsheet Calculator Program
- Word/7 Word Processor
- 90-day Warranty (9-month Extended Warranty available for $200)

Service for SAGE microcomputers is fast and comprehensive. It is performed by the dealer, distributor or factory depending upon your location. To better serve our customers, we will be opening regional offices across the United States. The first of these offices is now open in the Boston area. The address is:

SAGE COMPUTER TECHNOLOGY - BOSTON DIVISION
15 New England Executive Park, #120
Burlington, MA 01803

For further details and complete technical information, please read the accompanying information. With a starting retail price of $3900, you will see why SAGE Computer Technology delivers more performance for the price than any other computer manufacturer in the industry.

If you have any question regarding our product, please contact a Sales Engineer in Reno at (702) 322-6868 or phone the Boston office at (617) 229-6868. We look forward to providing you with the means to do twice as much in half the time.

Sincerely,

Kenneth S. Kinkel
V.P. Marketing/Sales

EUL883

4905 ENERGY WAY • RENO, NEVADA 89502 • (702) 322-6868

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PERIPHERALS

SAGE microcomputers are designed to interface with hundreds of different peripherals. This flexibility is accomplished through the use of SAGEUTIL and SETUP programs which are provided on distribution diskettes with every computer.

When a system is installed, a system generation procedure is done to properly configure the SAGE microcomputer to your peripherals. This system generation procedure requires researching your terminal and printer manuals to determine cable requirements and software configuration. This generally requires from one to four hours.

This procedure is somewhat simplified for the following terminals as SAGE provides software modules for their interface on your distribution diskette.

- Televideo 912C
- Televideo 920C
- Televideo 925
- Televideo 950
- Freedom 100
- SOROC IQ120
- Lear ADM3A
- DEC VT52
- Heath H19
- Hazeltine 1500
- ADDS Regent 25
- ADDS Viewpoint 60

SAGE can simplify this procedure even more by providing terminals, printers and cables which we have already interfaced and tested. A boot diskette for the SAGE IV terminal (Freedom 100) is also included in the package. The purchase of your peripherals from SAGE will allow you to have your system operational within minutes after you receive it.

The following peripherals are currently distributed by SAGE:

SAGE IV terminal (Freedom 100) - This low-cost terminal has excellent resolution, a detachable keyboard and graphics characters. The screen dimensions are 25 x 80 with a reverse video feature.

Okidata Microline 80 dot-matrix printer - 80 CPS, 80 or 132 column, 9.5 inch wide paper, graphics character set.

Okidata Microline 92 dot-matrix printer - 160 CPS, 80 column, 9.5 inch wide paper, graphics character set.

Okidata Microline 93 dot-matrix printer - 180 CPS, 136 or 224 column, 14 7/8 inch wide paper, graphics character set.

Okidata Microline 84 dot-matrix printer - 200 CPS, 136 or 231 column, 14 7/8 inch wide paper, high-resolution graphics, dual pass correspondence quality.

Qume Sprint 9/45 daisywheel printer - 45 CPS, 132 or 198 column, 14 7/8 inch wide paper, true letter quality printing, proportional spacing.

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SAMPLE SYSTEM CONFIGURATIONS

There are many different ways to configure a SAGE computer system depending upon your particular requirements. Each SAGE computer includes a word processor, a spreadsheet, a multi-user system, and a terminal cable. The capacity of RAM-DISK, the number of terminals and which printer you purchase will vary according to how you plan to use your SAGE computer.

The following samples should be used only as guidelines in your planning. We recommend that you consult with your local dealer or a factory salesman before determining a final configuration.

The Controller

This system is typically used as a dedicated industrial controller. It is the minimum configuration supported by SAGE. Minimum parity RAM is 256K.

SAGE IV with one 640K disk drive	3900.00
SAGE IV Terminal	590.00
10' SAGE IV terminal cable	00.00
Total	$4490.00

The Two User Business System

This configuration is typical of a two user system. It is expanded to enough minimum parity RAM to allow utilization of SAGE's Multi-user, which is bundled in every SAGE microcomputer.

SAGE IV with two 640K disk drives	4700.00
Expansion to 512K of RAM	500.00
Two SAGE IV Terminals	1180.00
Okidata Microline 80 printer	450.00
10' Parallel printer cable	50.00
10' Extra modem port terminal cable	30.00
Total	$6910.00

The Three User Business System

This system can be used as a general system for a small business. Simultaneous tasks might include word processing, accounts payable, accounts receivable and other accounting functions. The 6 Megabyte hard drive assures the integrity of very fast processing speed.

SAGE IV with one 640K disk drive and one 6 Megabyte Winchester drive	7300.00
Expansion to 512K of RAM	500.00
Three SAGE IV Terminals	1770.00
Okidata Microline 92 printer	690.00
Two extra 10' SAGE IV terminal cables	60.00
10' Parallel printer cable	50.00
Total	10,370.00

The Six User Business System

This six user system can provide service to a small-to medium-sized business. It offers everything the other business systems offer but with the capacity for many more productive employees. The 18 Megabyte hard drive allows the handling of an enormous amount of data very quickly. Each user has all the attributes of his own system at lower cost than one single user system.

SAGE IV with one 640K disk drive and one 18 Megabyte Winchester drive	8500.00
Expansion to 1 Megabyte of RAM	1500.00
Six SAGE IV Terminals	3540.00
Okidata Microline 84 printer	1350.00
Four extra 10' SAGE IV terminal cables	120.00
10' Parallel printer cable	50.00
10' Modem port terminal cable	30.00
	$15,090.00

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APPLICATION SOFTWARE

Application software is currently available from the following sources:

**** Arizona Computer Systems ****
P.O. Box 40878, Tucson, AZ 85717 - phone (602) 623 5976

DATATREE is a database management system for the Sage II. It is an advanced software tool to help users organize, retrieve, update, select, and report from database files. Mailing list capability is included, and reports can go to screen, printer, or disk files. A tutorial is provided for leading the beginner step by step. $150

**** Microfinancial Corp. ****
15404 E. Valley Blvd., City of Industry, CA 91746 - phone (213) 961 0237

The FLEXWARE application packages have features that may be selected, added, or deleted to meet your needs. Systems may be tailored before, and fine-tuned after, installation. All packages may be integrated, and each is database oriented with built-in report writer.(Add $600 one-time fee).

GENERAL LEDGER will accomodate small or large companies. Information can automatically enter from other packages, or be entered manually. Audit trails, up-to-the-minute analysis, many other standard features. $1500

ACCOUNTS RECEIVABLE can be used manually, or interfaced with the order processing system for automatic invoicing and general ledger update. $1000

ACCOUNTS PAYABLE can increase profit through reduced labor, cash flow forecasting, automatic payments, etc. It can interface to general ledger, inventory, and purchasing, or operate stand-alone. $1200

ORDER PROCESSING speeds processing and filling, reduces bad debt and inventory problems. Includes instant inquiry, memos, automatic calculations, picking lists, packing lists, payment terms. $1100

INVENTORY system optimizes inventory with automatic restocking, cross reference of parts, reorder and backorder processing, vendor lead time tracking, floating and perpetual inventory, general ledger interface. $900

PURCHASING has automatic reorder point and quantity calculations, with a balance of automatic features and manual controls. $1400

PAYROLL has a full range of automatic payroll processing functions, with manual over-rides to handle even very unusual situations. It is password protected, has W-2 and check printing, quarterly and annual reports, audit trails, and instant inquiry. $1500

SALES ANALYSIS system provides up-to-the-minute data on sales and trends. Online updates and analysis by various criteria are included. $750

**** Microfinancial Corp. ****
15404 E. Valley Blvd., City of Industry, CA 91746 - phone (213) 961 0237

JOB COSTING automatically records costs and revenues through general ledger to provide instant access to variance analysis against estimates. $1800

FLEXWARE DEVELOPMENT SYSTEM allows you to quickly develop customized systems for fast penetration of new markets. Easy support, automatic self-documentation, and consistent operation. $5000

**** PCD Systems ****
Box 143, 418 North Main St., Penn Yan, NY 14527 - phone (315) 536 7428

LISP INTERPRETER with over 80 basic LISP functions built in. Allows user to write most applications without further support routines. INTELLECT-UL is based on U. of Texas LISP, and has debugging facilities and efficient memory management. $225

CROSS ASSEMBLERS PACKAGE allows you to generate native code assembly language files for Z80, Z8, 8080, PDP-11/LSI-11, 6502, 6800, 6809, 9900 microprocessors. $275

PFAS (Pascal File Access System) is an easy to use keyed database package. It uses a B+ tree index for speed and efficiency, and has unlimited file and record size, optimized performance with no file reorganization. Can be built in to your own programs. $225

MAILER is a mailing list program in Pascal, with source included, so you can tailor it to your own needs. Sub-selection and sorting are supported, as well as looking at the disk directory without leaving the program. $125

PLAN 80 financial planning and analysis combines your ability to plan and analyze with the computer's ability to calculate and present information quickly and accurately. Includes what-if comparisons, easy change capability for re-evaluation of parameters, and clear definition of problems. $295

IMP (Instant Mathematical Programming) allows you to state your problems in algebra as well as arithmetic. It will re-arrange and re-sequence your equations and then use a versatile numerical procedure to converge on a solution. It checks your work and allows comments. $250

ASE (Advanced System Editor) is based on the popular p-System editor that comes as part of every Sage II. It allows large file editing, user-defined functions, terminal key interface, change logging, paint mode editing, nested editing, and system interface for executing system functions without leaving the editor. $150

CPR text formatter allows you to create documents as diverse as simple business letters, technical papers, contracts, and program users manuals. Configurable for all printers. $195

NUTRI-CALC helps plan new menus and develop special diets for nutritional problem cases. It is designed specifically for today's dietitian, nutritionist, or researcher. Includes 730 common foods. $350

MEDOFFICE is an advanced medical office management package designed to support 1 to 20 practitioners. It includes automated billing, aged trial balances, insurance form preparation, collection lists, dunning notices, and ledger updates. $3500 to $4500 (depends on configuration)

ERATOSTHENES' SIEVE PRIME NUMBER

The following is a comparison chart of the Sage II and Sage IV execution times as compared to the benchmark study published in BYTE magazine Sept. 81. The chart demonstrates that Sage executes p-Code faster than any other existing microcomputer, and has a corresponding performance advantage for native and assembly code.

	p-Code Pascal seconds	native code Pascal seconds	native code Assembly seconds
Sage II-68000	41	4.2	1.12
Pascal-100	54	NA	NA
Microengine	63	NA	NA
Multibus 68000	75	7.3	2.05
Z80	156	19.7	6.8
8086	129	13.2	NA
IBM PC 8088	147	17.2	4.2
TI-990	187	13.8	NA
Tandy TRS-80 MOD II	274	NA	NA
Terak LSI-11	317	NA	NA
Apple II	516	NA	NA
PDP-11/70	NA	2.6	NA
PDP-11/60	NA	4.5	NA
HP-3000	NA	20.0	NA

COMPILE RATE

The Sage with RAM-DISK implemented will compile Pascal source code, Version IV.1 at a rate of approximately 1800 lines per minute, or 14 times faster than a standard Apple II.

DISK PERFORMANCE

The Floppy disk interface for the Sage is entirely interrupt-driven and does not require any sector interleaving or skewing. It will transfer 20 Kbytes in approximately one second or the entire RAM-DISK which is 384 Kbytes in 19 seconds, including stepping. The Winchester disk interface for the Sage IV has a full track buffer and will transfer 160 K to 400 K per second.

SAGE™

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SUPER PRICES -- SUPER MICROS

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SAGE IV computers use the 68000 CPU, come with UCSD p-System, PASCAL, Macro Assembler, Multi-user system, Word processor, Spreadsheet, 1 year warranty.

Available SAGE configurations include:

1 640K floppy & 256K RAM	$3120
2 640K floppies & 256K RAM	$3760
1 floppy, 256K RAM, 6mb Hard disk	$5840
1 floppy, 1mb RAM, 18mb Hard disk	$8000

As software developers and authorized SAGE dealers we offer customer support.

MARITIME SOFTWARE ASSOCIATES

(503) 929-2552
6660 Reservoir Road Corvallis, OR 97333