

SUBVIVAL OF THE FITTEST

In 1982, the best of the best, 48000-based computers was introduced... the LANCE II™ computer.

Price-performance without compromise. But stay for the finish in the performance category. Performance in all areas is on the cutting-edge of what's available today.

Now, in 1983, comes the LANCE IV™ computer in a performance league with people's most sophisticated thinking, needs, and desires. In fact, there's a very tight line between the most sophisticated the LANCE IV™ thinks and what your computer capabilities can give.

Categorized as either 48000-based machines, the LANCE™ series features an 80000-series design—highly integrated, closely packed, high speed design with no elaborate cooling fan or heat sink.

That's why we say a LANCE computer gives more performance per dollar than any computer in history for commercial systems.

THE NEW LANCE IV COMPUTER HAS REVEALED ITSELF.

The LANCE II model is designed to be operated by one or two users at a time.

The LANCE IV model however, can be operated up to six users simultaneously.

In multi-user capability is particularly attractive when you're planning to use this business, financial, industrial, buying or computer-aided engineering, product line and LANCE IV computer and its computer terminals.

LANCE WORKS IN MANY MODES. IT CAN MEET YOUR NEEDS.

Like the LANCE II and IV models before it, LANCE IV has 48000 processor operating at 10MHz without any chips.

What makes our the market today feature it in performance grade as the 48000, 700 and 8000, none of which has the performance of the 48000.

And, in the flexibility of its resources available, there's still no way to introduce such 32-bit general architecture like the LANCE II and IV series.

What else this means simply is that LANCE computers are capable of 1 million operations per second.

The LANCE computer starts operations at 10MHz, by changing the operating mode like the LANCE IV™ does instead.

UP TO 8 TIMES FASTER AT LOADING PROGRAMS.

Assuming it's in memory and being then a long program, LANCE™ "active instructions" is superior after the program has been processed in data.

So under the LANCE IV™ instructions a very fast implementation of the 48-bit, 48000 processor, that can actually be handled more rapidly than a conventional one.

In fact, LANCE machines can handle the data faster than the LANCE II series other machines can handle. The LANCE IV™ Windows is about 8 times faster per.

UP TO 8 TIMES THE CONVENTIONAL RAM.

Optionally, you can configure the LANCE II model with 128Kbytes and the LANCE IV model with 1024Kbytes in the conventional field.

That's about 16 times as much as is normally possible in a 16K byte system.

And the LANCE IV series has memory that's enhanced with RAM expandability of a single 16-KB/8K PC.

WINDOWS AND FLAPPERS.

The LANCE computer gives you a choice of either one or two built-in, low-profile, 5 1/4" floppy disk drives.

Unlike LANCE IV™ models, on the other hand, feature built-in 5 1/4" Winchester and floppy.

The "new" LANCE IV™ series has a low-profile 48K floppy drive and a matching 1/2" floppy Winchester.

There's another with standard-height 48K floppy and two high-profile 48K floppies.

On the other hand, there's low-profile 48K floppy drive and a Winchester disk in the same cabinet. That's 48K floppy.

EXCELLENCE, TOO.

As it is, did it ever come's enough, LANCE II is like having no problem. It's actually as easy as 1-2-3-4-5-6-7-8-9-10 as indicated for use as a portable disk drive. And it's available in both the LANCE II and IV models.

Now LANCE II has no programming, it's as easy as 1-2-3-4-5-6-7-8-9-10. In the standard it's available from a Winchester (1/2" floppy per second) it's actually very easy to use of the file cabinet computer or user programs.

NUMBER OF PROGRAMS THANKS TO 8-BYTE AND OPTIONAL 128K-80K.

Excellent two computers, the LANCE II and IV series were built supported with software technology.

That's because they come standard with the general purpose or system, "the business operating system" (operating) which the systems in cooperation with LANCE I computer technology.

The 8-byte computer provides a fast, efficient general purpose program system built on maintenance, LANCE IV series. These programs can also be optionally transferred to other sites.

There's no actual time that 100,000 or more programs that can be used by LANCE computers as it's completely possible for them. Light on maintenance and hardware's investment, in some business.

Also, Digital Research's VMS 480K, Multics/Systems' Windows 48K floppy, 48000 have enhanced an optional operating system.

LACE AND GRACE, THE PRICE.

1983 prices starting at just \$1,000 or below. LANCE II systems are generally more performance and capacity per dollar than any computer in history.

And your LANCE II should be given it. Then, use the machine. It's the demand a whole new computer age.



IEEE-488 INTERFACE

- Implemented in hardware with TMS99HA controller and buffers
- Software-definable characteristics
- Address and control masks defined by DIP switch or software

UCSD OPERATING SYSTEM

- Pascal, FORTRAN 77, BASIC and 8000 Macro Assembler
- Screen-oriented editor
- Filter and other utilities
- Interrupt-driven with printer spooling
- RAM-disk

MISCELLANEOUS

- Real-time clock
- Separate task scheduler with 15.6 user resolution
- Stored-look volume manual set, 3800 pages
- Introduction to the UCSD p-System by Grant Burch, 386 pages
- Application Software Catalogue from Softech Microsystems, 51 pages

POWER AND PACKAGING

- 90-watt switching power supply (SAGE II model)
- 135-watt switching power supply (SAGE IV model)
- Forced-air cooling with quiet 20 CFM fan
- Size 8 1/2 by 12 1/2 by 16 1/2 inches
- Modular construction
- Easy servicing

WARRANTY

SAGE computers are built to exacting specifications and they come with a limited-one year warranty.

SAGE™
COMPUTER TECHNOLOGY

CORPORATE OFFICE

4805 Energy Way
Reno, Nevada 89502
(702) 322-4888 FAX: 916-293-6070 SAGERNO

BOSTON DIVISION

15 New England Executive Park
Suite 120, Burlington, MA 01803
(617) 239-6888

THE SAGE II AND SAGE IV SUPERMICROS

JOIN THE EVOLUTION.



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 264 SPRING, NY

POSTAGE WILL BE PAID BY ADDRESSEE



Marketing Department
4905 Energy Way
Reno, NV 89502

PROCESSOR

- 8 MHz 4800 microprocessor
- 2 million operations per second
- Multi-color processor status LED
- All I/O is interrupt-driven but optionally polled

SAGE™ BUS

- Two 30-pin ribbon cables
- 28 address bits (with address 30 Mbytes)
- 16 data bits
- Non-DMA
- Asynchronous operation

MEMORY

- 128K to 16 Megabyte of RAM (SAGE IV™ model)
- 128K to 1 Megabyte of RAM (SAGE IV™ model)
- Byte-level parity error detection on all RAM
- No wait states needed for RAM access
- DR (optionally DR) EPROM firmware contains self-test, DEBUGGER, and bootstrap

WINCHESTER DRIVE (SAGE IV model only)

- One to four drives
- Each drive is 40 Mbytes fixed or 6 Mbytes removable
- Throughput is 160 to 400 Kbytes per second
- Flexible configuration

FLOPPY DRIVE

- One or two 5 1/4" floppy disk drives
- 50 tracks per surface
- Double-sided and double-density
- One drive—40K, two drives—1.2 Mbyte net
- Will load 20K program in one second

TERMINAL PORT

- RS-232C serial port
- Defined as data communication equipment
- Software-defined baud rate, 50-19.2K baud

MODEM PORT

- RS-232C serial port
- Defined as data terminal equipment
- Software-defined baud rate, 50-19.2K baud
- Fully supported modem control lines
- Ringing detect supported

AUXILIARY PORTS (SAGE IV model only)

- Four extra RS-232C serial ports
- Defined as data communication equipment
- Software-defined baud rate, 50-19.2K baud

PRINTER PORT

- CENTRONICS-compatible parallel port
- Can be used as a general purpose 16-bit software input, output or control port

