Until now, if you wanted a mid-range computer system, you could either pay for performance, or settle for price. Now there’s a system that offers the best of both. Digital’s DECLAB-11/60.

It comes with standard features that are anything but standard.

For less than $65,000, you get a powerful PDP-11/60 central processor with integral floating point and cache memory. 128K of MOS memory with error correction code for accuracy and reliability. Two independent disk drives for handling raw and processed data. Interactive graphic display that combines our processing power with your intuition. Software support that includes our RSX-11M real time, multi-user operating system, FORTRAN IV Plus language compiler. And full FORTRAN support for each system component. You also get a library of more than 200 lab application subroutines.

...In fact, the DECLAB-11/60 is so complete, it comes with standard features other systems offer as options. It even comes with standard features other systems don’t offer at all.

Introducing the new LPA 11-K Intelligent controller for lab peripherals.

Combined with the A-D converter, our LPA 11-K lets you acquire data at speeds up to 75,000 samples per second. Without tying up your central processor.

With the LPA 11-K you can acquire analog or digital samples from a mix of instruments and experiments faster than ever before. And simultaneously analyze them. So you can get more throughput than ever before.

And you can add options for even more power.

You can add a fast floating point parallel processor. More powerful graphics. Even a user-programmable control store that lets you write and run your own microprograms.

In addition, you can add more disk and more ECC/MOS memory anytime you need more. You can also add printers and terminals for more users. In fact, the DECLAB-11/60 gives you the flexibility you need to make its power work for you.

You can do Fast Fourier Transform. Power spectrum analysis. Signal processing. Image processing. And you have the power for laboratory database management applications as well.

Best of all, you can do all this, and a whole lot more, without spending a lot in the process.

DECLAB-11/60. Just one member of the DECLAB family.

You can also choose our easy-to-use, low-cost DECLAB-11.03. Our versatile DECLAB-11/34. Our large-scale, multifunctional DECLAB-11/70. Or our new 32-bit VAX 11/780.

No matter whether you want a system for dedicated or multi-task applications, concurrent program development, high-speed computation or lab networking, the DECLAB Family offers you the right system for your lab. And since they’re all compatible, you never have to worry about today’s DECLAB becoming too small for tomorrow’s needs.

To find out more about the DECLAB-11/60 or any of our other systems, fill out the coupon and send it to Laboratory Data Products, MR2-4 M16, Digital Equipment Corporation, Marlborough, MA 01752. Telephone: (617) 481-9511, ext. 5751. European headquarters: 12, av. des Morgines, 1213 Petit-Lancy/Geneva. Tel: 93 33 11. In Canada: Digital Equipment of Canada, Ltd.

Digital Equipment Corporation, MR2-4 M16, Marlborough, MA 01752.

Please send me information on:

□ DECLAB-11/60. □ The DECLAB Family.
□ Please have a Digital lab system specialist contact me.

Name ____________________________

University or Company ____________________________

Address ____________________________

City ____________________________ State ________ Zip ________

Phone ____________________________ Ext. ________

Applications ____________________________

Digital Computers in Research.

Digital Equipment Corporation

Address: 50 - 200 Beach Street

Phone: (617) 481-9511, ext. 5751

Website: www.de.com

Email: info@de.com

Follow us on Twitter: @DigitalEquipment

Like us on Facebook: Digital Equipment Corporation

LinkedIn: Digital Equipment Corporation
Designed with the operator in mind, the ChemResearch Series 2000 has many conveniences to make high performance liquid chromatography easy. LED readouts monitor 15 operating parameters. Valve and column plumbing are mounted on the oven door, providing easy access for column or sample loop changes. A precisely reproducible injection mark is made automatically every time the valve is operated. Pressure and temperature limit controls with alarms protect the instrument and operator. And a valve protects against air locks during solvent changes.

Modular construction makes it easy to adapt the Series 2000 to your HPLC needs. You can choose from two high-sensitivity detectors, giving you the option of multi-wavelength or variable UV/visible absorbance. You can choose an isocratic version and later add a single gradient module that’s programmable for concave, convex, or linear gradients for both solvent and flow. Easy choices that give you the versatility you need for practically any separation.

Solvent delivery is monitored by an advanced feedback control which produces an exceptionally smooth flow by compensating for valve action, system compressibility, and other irregularities. In fact, the single piston ChemResearch pump delivers solvent as smoothly as most dual piston pumps.

The solvent, injection valve, and column are maintained at the same temperature in the forced-air oven to provide better reproducibility and to prevent precipitation of samples which require heat to remain in solution. Temperatures are precisely controlled within ±1°C throughout the oven chamber, which accommodates two 25 or 50 cm columns.

Make your HPLC easier—send for ChemResearch literature today. Or dial direct, toll free (800) 228-4250 (continental U.S.A. except Nebraska). Instrumentation Specialties Company, P.O. Box 5347, Lincoln, Nebraska 68505.
Macro and Micro

With the Zeiss Ultraphot Fully Automatic Camera Microscope using LUMINARS and Epi-LUMINARS, you can do photomacrography from 2.5x to 30x on 4x5” film. In less than two minutes, the Ultraphot can be converted from macro to micro or vice-versa.

The micro setup takes over where macro lets off, and gives continuous magnifications up to the limits of light microscopy. Perfect photomicrographs in all microscope techniques in transmitted and reflected light through great Zeiss optics. Send for our catalog.

Only possible with Ultraphot


Ultraphot Macrophoto, Macro Luminar, transmitted light brightfield, original magnification 4X; as shown 5X. Human embryo.

Ultraphot Microphoto, Neofluar 100X, phase contrast, original magnification 1000X; as shown 1500X. Drosophila chromosome.
Each lot is tested in a specific assay to ensure immunoreactivity. Prepared fresh monthly.

Prolactin, [125I]-(rat) 20-50μCi/μg
Shipped frozen in 0.05M phosphate-buffered saline solution, containing a stabilizer and proteolytic enzyme inhibitor.
NEX-108 10μCi 2x10μCi
50μCi 2x50μCi

Send for our complete catalog of [125I]-labeled products.

New England Nuclear
549 Albany Street, Boston, Mass. 02116
Customer Service 617-452-9595
NEN Chemicals GmbH, Dreieich, W. Germany; NEN Canada Ltd., Lachine, Quebec

Circle No. 218 on Readers’ Service Card

For the photomicrographic requirements of the industrial and scientific communities, a reasonably-priced zoom stereo microscope with full camera capability: Olympus SZ-III-Tr.

A wide field of view over its 5.7:1 zoom range is controlled by a smooth-working zoom ring, with standard 7x to 40x magnification; or 3.5x to 160x with optional wide field eyepieces and auxiliary objectives.

The Olympus PM-6 and PM-10 photomicrographic cameras are speedily and easily mounted for precision photomicrography, through the vertical phototube.

Olympus SZ-III-Tr provides the practical solution to a pressing need, with the first low cost system of its kind. For details, write to Olympus Corporation of America, 2 Nevada Drive, New Hyde Park, New York 11040.

The Olympus SZ-III-Tr.
Low-cost zoom stereo trinocular microscope with photomicrographic capabilities.

In Canada: W. Carsen Co., Ltd., Ontario.
A special issue of *Science* published in the fall of each year, the *Guide to Scientific Instruments* gives you the names and addresses of over 1900 manufacturers of laboratory instruments and equipment. If you are not a subscriber to *Science* and you would like to order the *Guide*, send your name and address plus $6.00 to

AAAS
*Guide to Scientific Instruments*
1515 Massachusetts Ave., NW
Washington, DC 20005

**MAXIMIZE DRUG ANALYSES**

A 20 fold increase in sensitivity* in GLC is possible when the sample is dried thoroughly before silylation.

- Up to 100 samples (tubes) capacity when evaporating tissue extracts, hydrolysates, eluates, etc. for Amino Acid, Gas Chromatography, Enzyme Recovery, Mass Spectrometry, Sensitive Analytical, Radioimmunoassay, Clinical and Screening Procedures.
- Volume reduction and sample concentration by vacuum evaporation and centrifugal action without “bumping”.
- 100% sample recovery.


**Savant**

Hold 20 Tubes (12 x 75mm)

Request Catalog from: Savant Instruments, Inc.
221 Park Ave., Hicksville, N.Y. 11801 (516) 935-8774.
More sensitive measurement than UV or visible absorption monitoring

More specific method of measurement because fewer compounds exhibit fluorescing property. Fluorophors are stable for L.C. uses. As little as 10 to 40 nanograms of protein can be detected.

Call or write
Gilson Medical Electronics, Inc.
Box 27, Middleton, WI 53562
Phone 608/836-1551 • Telex: 26-5478

Need more light at the end of the tunnel?

SWIFT Y-5 Illuminator—used in conjunction with SWIFT Y-4 Base—gives two superb Swift instruments, the SRL Vision-Master and Duo-Master Microscopes, exceptional capabilities where high light levels are imperative.

Halogen Illumination (12 volt, 100 watt) provides truer color rendition, closely approximating daylight, particularly effective in microphotography. Producing more light with longer life potential, it affords greater operational efficiency for:

- Photography—constant burning at 3200° K temperature (without darkening).
- Phase contrast and/or darkfield procedures.
- All high intensity brightfield requirements.
- FITC fluorescent applications using darkfield condensers and FITC excitation filters.

Also available with standard research quality Y-4 Koehler tungsten illumination.

Write or call now for literature and name of your nearest dealer for demonstration.

SWIFT Y-5 Illuminator and Transformer in use with Y-4 Base on Duo-Master Microscope.