

RESEARCH ARTICLE | NOVEMBER 01 1995

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Listings of the Latest Releases

Comput. Phys. (July 1995)

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NEW PRODUCTS

Computers in Physics selects new products for this section based on standards of relevance and significance to our readership. The manufacturers have supplied this information about their products, and Computers in Physics assumes no responsibility for its accuracy. For more details from the manufacturers, use the Reader Service Card, which is opposite the inside back cover, or request information electronically at the URL <http://www.aip.org/cgi-bin/cipwais>.

Driver library for graphical programming software

Alligator Technologies has introduced SETAAF3 for LabVIEW, a driver library that allows National Instruments LabVIEW graphical programming software to operate with the AAF-3 low-pass filter. Designed for use in front of an analog-to-digital converter, the Alligator Technologies AAF-3 is a PC plug-in low-pass-filter card for anti-aliasing and noise reduction in data-acquisition systems. SETAAF3 for LabVIEW provides an AAF-3 virtual-instrument (VI) library that can be graphically assembled with other VIs in a LabVIEW block diagram to create a complete instrumentation system. "Wiring" in the AAF-3's icon or block allows for direct control over the board's functions, including the gain setting, filter type, cutoff frequency, and cutoff-frequency-control source. It also allows data to pass through the system from one block to the next. SETAAF3 for LabVIEW is available free with the purchase of an

AAF-3 low-pass filter. Pricing for the AAF-3 starts at \$1095.

Alligator Technologies
Costa Mesa, CA

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Visualization and analysis software

IBM Corp. has released Visualization Data Explorer 3.1, software that gives users insights on data through visualization and analysis techniques. The software provides a full set of tools for manipulating, transforming, animating, and rendering data. Data generated by models, simulation, observations, experiments, and commercial applications can be converted into two- or three-dimensional images. Visualization and analysis methods can be based on points, lines, areas, volumes, and images in any combination. Version 3.1 offers new modules and an enhanced user interface. The software supports a wide range of Unix platforms, including true parallel performance on symmetric multiprocessor models from IBM, Sun Mi-

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croSystems, and Silicon Graphics. Pricing starts at \$5900.

IBM Corp.
Yorktown Heights, NY

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Global Fortran-analysis tool with Motif GUI

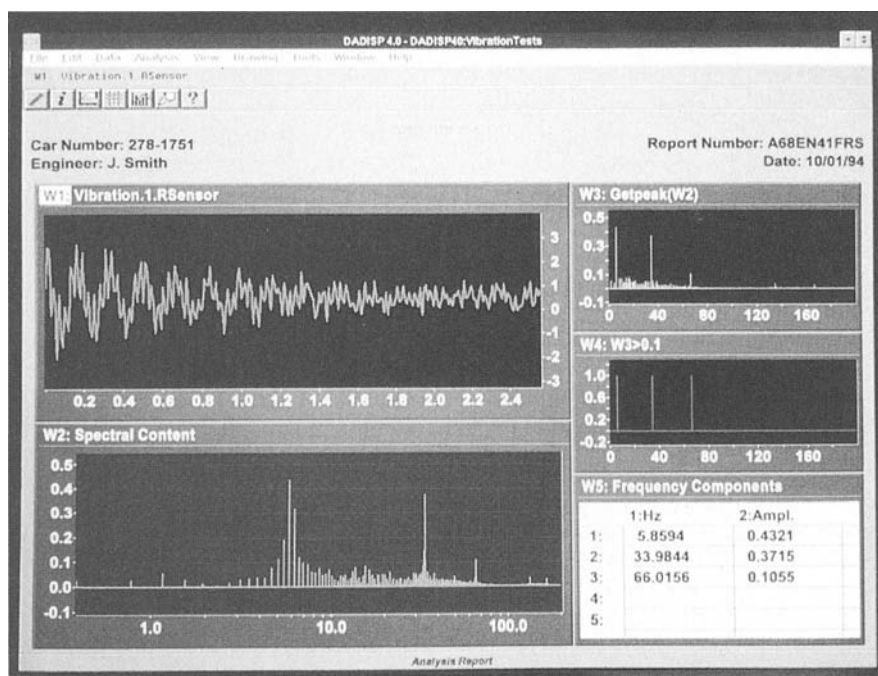
Applied Parallel Research has announced shareware distribution of Forge Explorer (FORGEX) Code Browser, a global Fortran-analysis tool with a Motif graphical user interface. FORGEX binaries for DEC, Hewlett-Packard, IBM RS/6000, SGI, and Sun workstation platforms will be available on the Internet via FTP and the World Wide Web. After building the program database for a set of program units for an application, the browser gives the user global views and analysis of the package from several perspectives. The browser displays a calling tree showing program, routine, and function names with embedded DO-loops. The static calling tree gives a rough idea of the computational complexity at each level in each call subchain. Users who download the browser will get a free 120-day trial period. After the trial period, users are expected to register their copies for \$395/workstation.

Applied Parallel Research Inc.
Sacramento, CA

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Graphical data-analysis software

DSP Development Corp. has released DADiSP 4.0, a graphical data-analysis software package. Version 4.0



DADiSP 4.0, a graphical-data-analysis software package from DSP Development Corp., incorporates native MS Windows and OSF Motif GUI standards.

extends the capabilities of DADiSP to collect, analyze, and display scientific and technical data in a format that is intuitively understood by scientists and engineers. Important additions to the software include native GUI standards, DDE and other interprogram communications, and SPL, a complete programming language. Expanded features of the program include the use of variables, improved printing capabilities, and online documentation. The software incorporates native MS-Windows and OSF Motif GUI standards, using common dialog boxes for file section, printer setup, feature customization, and other standard cross-application operations. For pricing information, contact the company.

DSP Development Corp.
Cambridge, MA

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Statistical software for the Macintosh

Abacus Concepts has released StatView version 4.5 for the Macintosh in English, Japanese, French, and German. This latest version of the data-analysis program includes survival analysis, quality control, Excel read/write capabilities, more than 20 new analysis and graphing templates, criteria labels, speed enhancements, and a thorough implementation of Apple Guide, the context-sensitive on-line-help system included in System 7.5 from Apple Computer. The software costs \$595.

Abacus Concepts
Berkeley, CA

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Software for managing bibliographic references

Niles & Associates Inc. has released two programs, EndNote Plus 2.0 and EndLink 2.0 for Windows. EndNote Plus 2.0 features a collection of more than 240 journal styles; full compatibility with Microsoft Word for Windows, WordPerfect for Windows, and Ami Pro; an enhanced Find command that lets the user find references quickly and easily; and a Change Text command that lets the user change every occurrence of a word to another word or phrase. Users can also import one EndNote library into another and filter out duplicates during an import process so that duplicate references are not added to their library. EndLink 2.0 is designed to import bibliographic references from online services and CD-



Compaq's LTE 5000 notebook PCs have true 64-bit Pentium-processor architecture.

ROMs. EndLink includes a collection of 140 filters to import references from the leading databases and services. Users can modify existing filters or create their own import filters customized for specific databases. EndLink allows users to import all reference types including journal articles, patents, and conference proceedings. Prices for EndNote Plus and EndLink are \$299 and \$99, respectively.

Niles & Associates Inc.
Berkeley, CA

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Pentium-based notebook PC

Compaq Computer Corp. has introduced the LTE 5000, a high-performance family of Pentium-processor-based notebook PCs with true 64-bit architecture. The notebook PCs have an 11.3-in. screen, over 1.2 Gbytes of hard-disk space, removable floppy and CD-ROM drives, a 90-MHz Pentium processor, 16 Mbytes of RAM, and 256 kbytes of processor cache. The LTE family also features a lithium-ion battery, PCMCIA slots, 16-bit wavetable-synthesis sound, 28.8-kbits/s fax modem, and serial, parallel, docking-station, keyboard, and VGA-

speaker ports. For pricing information, contact the company.

Compaq Computer Corp.
Houston, TX

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Test and measurement catalog

Geotest Inc. has released the 1995-1996 *PC-Based Test Solutions Source Book*. This 40-page products catalog features more than 100 products including hardware, software, and systems for PC-based ATE, data-acquisition, and test-and-measurement applications. This full four-color catalog contains complete specifications, selection charts and block diagrams. The catalog is available free of charge from the company.

Geotest Inc.
Irvine, CA

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CD-ROM package teaches acoustics

The French company 01db has introduced Mediacooustic, a multimedia CD-ROM package for learning basic and applied acoustics. Mediacooustic can serve either as a standalone training program or as supplementary material for a teacher-

led course. The package combines text, sound, and animation to illustrate acoustic concepts. It portrays the concept of harmonic content by simultaneously superimposing pure audible tones and their graphic waveforms. Students can actually hear the difference between white and pink noise. They also can experience directly such practical effects as the noise reduction produced by distance or by doubling a machine's acoustic screening. Mediacoustic's central core includes 500 sections organized into four main areas: The Physics of Sound; Sound and Man; Acoustics and Buildings; and Noise Control. This 300-Mbyte core functions as an online encyclopedia and is supported by an automatic, help tool. For pricing information, contact the company.

*French Technology Press Office
Chicago, IL*

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Brochure for processing spectral data

Galactic Industries Corp. has released the updated GRAMS/386 brochure. GRAMS/386 is a Windows software package for processing and plotting spectral and chromatographic data from virtually any laboratory instrument. GRAMS/386 runs on 386, 486, and Pentium PCs under Microsoft Windows version 3.1 or higher and Windows 95. This 12-page full-color brochure reflects the current "look" of GRAMS/386 version 3.0. Filled with colorful screen shots, the brochure depicts spectroscopic processing, viewing, data-linking, and management capabilities. The brochure features descriptions and color screen shots of GRAMS/3D and PLSplus/IQ. System requirements and the complete line of add-on applications are included.

*Galactic Industries Corp.
Salem, NH*

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IEEE 488.2 device driver

Iotech has introduced the Driver488/WIN/95, an IEEE 488.2 device driver that integrates IEEE 488.2 control into Microsoft Windows 95 applications. The driver is a Windows 95 device driver designed specifically for the 32-bit Windows 95 environment. It supports the company's IEEE 488 command set and includes a multilanguage interface that supports user-written applications in C, C++ for Windows, or Visual Basic. (New versions of Visual Basic will be

supported as they become available.) Driver488/WIN/95 also includes interactive control programs for application start up, instrument-communication verification, and interactive IEEE 488 instrument control. Pricing begins at \$395.

*Iotech Inc.
Cleveland, OH*

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SPARCbook notebook computer

Tadpole Technology has introduced the SPARCbook 3GX, a workstation-class notebook computer. The SPARCbook 3GX features a 110-MHz micro-SPARC II microprocessor, high-resolution 800- × 600-pixel, 10.4-in. active-matrix TFT display, and a high-performance 1.2-Gbyte SCSI disk option. The 3GX also features user-upgradable single in-line memory modules (SIMMs) from 16 to 128 Mbytes; removable 340-Mbyte, 520-Mbyte, 810-Mbyte, or 1.2-Gbyte SCSI-2 hard-disk drive; built-in ISDN and 14.4-kbits/s data/fax modem; on-board Ethernet, SCSI-2, one parallel, and two serial ports; and a Lexmark keyboard with integrated pointing stick. A 3GX configured with 16 Mbytes of DRAM, a 520-Mbyte hard drive, and the Solaris 1 or 2 operating environment costs \$13,450.

*Tadpole Technology
Austin, TX*

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Mathcad 6.0 Student Edition

MathSoft Inc. has released Mathcad 6.0 Student Edition. Intended for students in two- and four-year colleges and universities who need to take math as part of their required courses, Mathcad 6.0 integrates World Wide Web connectivity and messaging with math, science, and engineering calculation tools in an easy-to-use environment. Mathcad allows users to enter formulas and equations in live math notation, create live graphs and animations, share and access information via e-mail and the Web, and produce presentation-quality output. Users also can participate in the Mathcad World Wide Web Math Competition, a contest in which students from around the world can test their math problem-solving skills and compete for prizes including a Pentium computer, air-travel awards, and cash. The software costs \$59.95.

*MathSoft Inc.
Cambridge, MA*

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Object-oriented interface to network communication

Rogue Wave Software has released Net.h++, an object-oriented interface to network communication services. Net.h++ makes it easier to write applications that communicate across a network. The initial release includes a C++ implementation of the Berkeley socket interface, the programming interface to TCP/IP, and will be portable between Unix, Windows, and Windows NT. The interface's three-tiered architecture provides a portable framework for working with network channels and protocols. Each layer is built on the one before and offers increasingly abstract services. A developer can use any or all of the layers of Net.h++, depending on the requirements of the application. Net.h++ 1.0 will include support for SunOS, Solaris, HP/UX, Windows, and Windows NT. Both source code and object code are available, and pricing starts at \$499. Tools.h++ is required for use of Net.h++.

*Rogue Wave Software Inc.
Corvallis, OR*

Write number 727 on Reader Service Card.

Guide to networking personal computers with TCP/IP

O'Reilly & Associates has released *Networking Personal Computers with TCP/IP*, a comprehensive guide to the intricacies of integrating IBM-compatible personal computers with TCP/IP-based networking. Written by network administrator Craig Hunt, the guide offers advice on how to deal with the challenges of TCP/IP networking. Most network administrators deal with several networking "islands": a TCP/IP-based network of Unix systems (possibly connected to the Internet), plus a separate Netware or Net-BIOS network for PCs. The guide provides detailed instructions for the formidable task of building a flexible and maintainable network. In addition to providing basic TCP/IP configuration information for some of the popular PC operating systems, the book addresses advanced configuration topics and configuration of specific applications such as e-mail, remote printing, and file sharing. The guide also includes a chapter on Novell's NetWare, a PC LAN software, and an appendix on free TCP/IP software for the PC. The 408-page book costs \$29.95.

*O'Reilly & Associates Inc.
Sebastopol, CA*

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