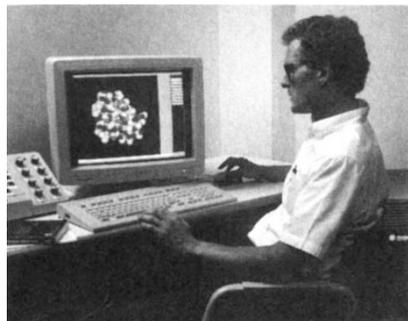


## NEW SOFTWARE PRODUCTS

(See "Dynamic Market Emerging for Molecular Modeling," this issue, for more about molecular modeling software)



The Charmm™ system from Polygen (Waltham, MA) adds to the molecular dynamics simulation functions of the company's Quanta™ **molecular modeling software**. The menu-driven, interactive Charmm program allows scientists to generate energy-minimized structures using either local or remote computers, including remote supercomputing resources.

Write in 817 on Reader Service Card



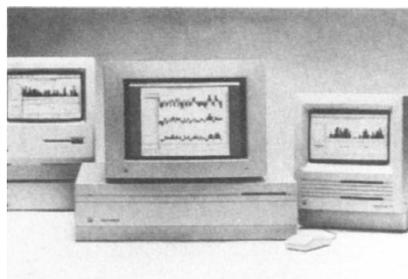
RJA Handelsgesellschaft (Kaarst, F.R.G.) announces the release of Java™ **video analysis software** from Jandel Scientific. The IBM-compatible package offers image processing and measurement functions that allow scientists to analyze almost any video image. Java supports off-the-shelf video digitizing boards, so it can be used to assemble a low-cost system.

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Ardent Computer (Sunnyvale, CA) now offers the Titan Server—adapted from its Titan graphics supercomputer—to increase the processing power of networked high-end graphics workstations by up to 10 times. The **computational server** connects to many systems used in scientific and engineering applications, including workstations from Sun Microsystems, Apollo Computer, and SiliconGraphics, and the Evans & Sutherland PS300 family of terminals.

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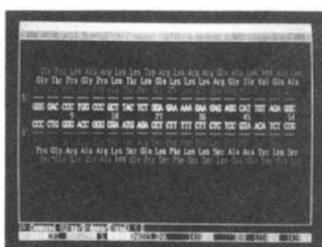


A new Macintosh-compatible desktop **DNA sequence analysis software** package from International Biotechnologies (IBI, New Haven, CT) supports over 100 applications, including restriction analysis, homology matrices, and protein structural studies. IBI Pustell software interacts with and converts to major sequence formats including Genbank™ and Bionet™ and provides a global search function for matching DNA-DNA, protein-protein, and protein-DNA in designated databases.

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Biosym Technologies (San Diego, CA) will release DelPhi, an **electrostatic potential calculation program**, by June 1989. The program lets users examine the effects of charge distribution, ionic strength, and dielectric constant on a molecule's electrostatic potential. DelPhi performs calculations for small or large molecules, including nucleic acids, with no limits on the number of atoms, residues, or molecules that can be treated.

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Pharmacia LKB Biotechnology (Piscataway, NJ) announces a new version of DNASIS™ PC-based **DNA analysis software**. Version 3.0 contains over 25 programs to collect, analyze, and present nucleic acid sequences. It gives faster homology searches, allows automatic entry of fragment migration distances, and offers improved color graphics.

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SiliconGraphics (Mountain View, CA) offers Personal Iris™, a relatively low-cost (\$16,000), real-time, **three-dimensional personal workstation**. The system is based on a 12.5 MHz, 32-bit RISC processor and delivers 10 MIPS (million instructions/sec) of CPU performance, with eight megabytes of main memory, Unix™, and Ethernet™.

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RS/Discover **software for experimental design** from BBN Software Products (Cambridge, MA) supports both classical and D-optimal design methods. It helps define overall experimental specifications, recommends experimental objectives, and suggests conditions required to meet them. Fully integrated with BBN's RS/I® software, RS/Discover can also be integrated with QCA quality control analysis software.

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