

SETTING THE STANDARDS

15
YEARS

BYTE Lab Tests a Dozen Disk Utilities

PAGE 152

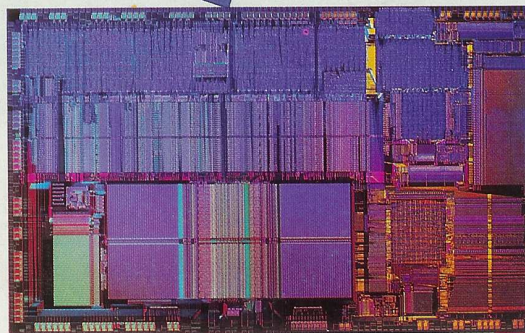
STATE-OF-THE-ART CHIPS

PAGE 234

BYTE

JANUARY 1990

A MCGRAW-HILL PUBLICATION



The Annual BYTE AWARDS

*The year's best products
and trailblazing technologies*

Apollo's Affordable Workstation

Under the Hood:
Math Coprocessors

Macintosh Expert Systems

On-Line BBSes
Span the Globe

REVIEWS

The NeXT Cube

Low-Cost Laptops

3 *BIG* Mac Hard Disks

Develop for Windows or
OS/2 with CommonView

Ethernet Speed
for Mac LANs

PostScript for LaserJet

Bricklin's PageGarden

GoldWorks II



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Bonus Inside: Annual BYTE Index

**FOLLOWS
PAGE 288**

BYTE

FEBRUARY 1990

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Zenith's Amazing EISA

*EISA disk drive controller
promises phenomenal
throughput*

**Terabits on tap:
New Data Storage Ideas**

**Micro Edsels:
Computing's Lead Balloons**

**Multimedia:
What it is, how you'll use it**

**Plus:
SCSI, Multitasking, Bus Wars**

REVIEWS

Mac Portable

Zenith MinisPort

HP IIP LaserJet

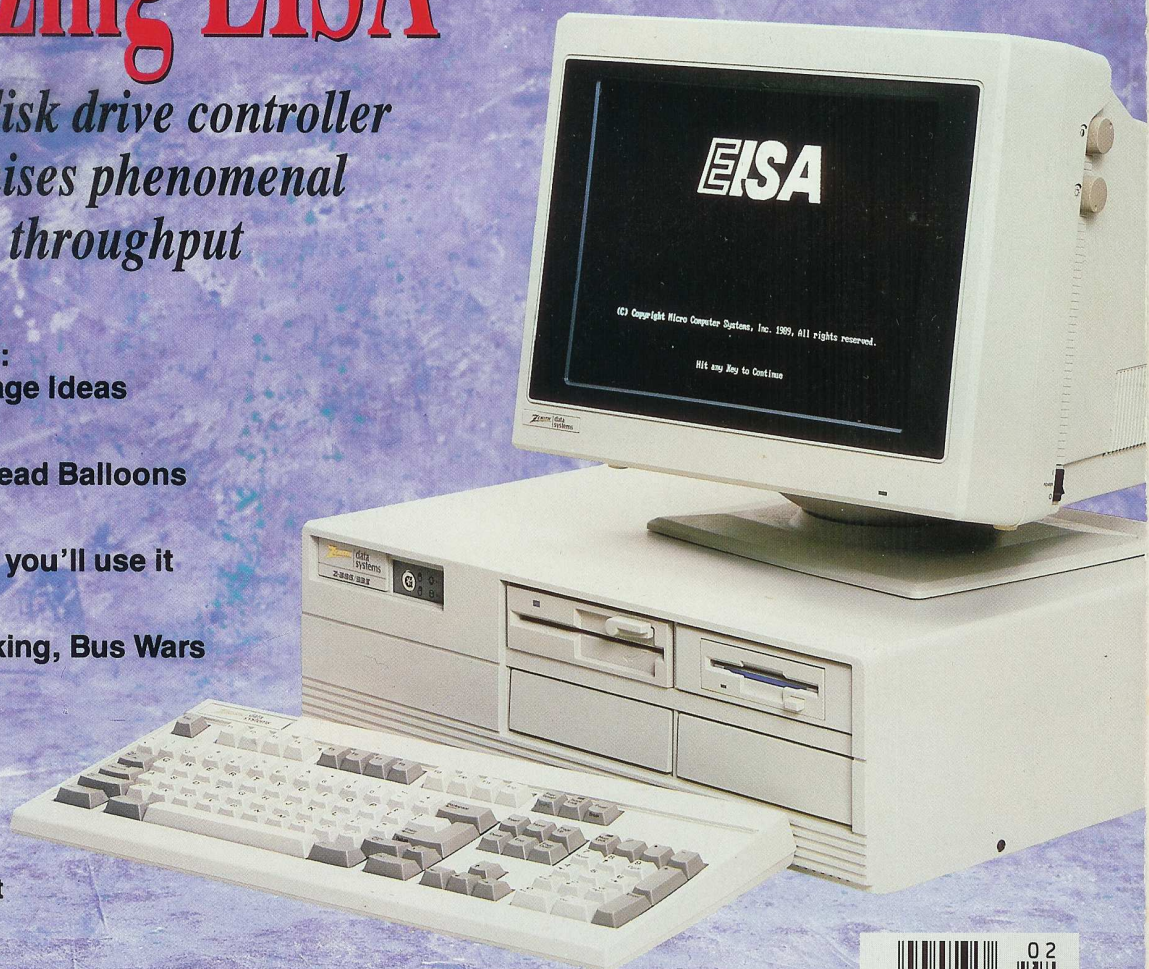
386Max

5 Data Swappers

2 Mac Drives

**THE
WORLD'S
BEST
SPREADSHEETS**

Lab tests of 15
state-of-the-art
programs for
DOS, OS/2,
and the Mac



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Special: More from your small laptop, PC, or Mac PAGE 196

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MARCH 1990

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THE SYSTEMPRO: COMPAQ'S BEST YET?



Irresistible

VGA

*26 monitors with great color,
great prices*

New Unix Benchmarks

Graphics on IBM's 8514/A

Chip Update

Inside SCSI

REVIEWS

OS/2 1.2

Jasmine AppleShare
Server

NetWare 386

Animator

Mail-Order SXes



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New IBM RISCs: Blazing Speed, a new Unix, runs DOS PAGE 124

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THE NEW
OS/2

Good-bye, DOS-in-a-Box
Hello, True 32-bit Power!

PAGE 119

**Apple redefines
top of the line
with the 40-MHz**

Mac IIx

Lotus 1-2-3/G

Toshiba T1200XE

Mylex EISA Triple Play

Emerging Architectures:
IBM's SAA, DEC's NAS,
Others

REVIEWS

23 386-Clone Motherboards

NEC Prospeed CSX

Low-Cost Color Scanner

HP NewWave

Ami Pro vs. Windows Word
vs. Legend

FoxPro

MPW C++ vs. Think C 4.0



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Lab Tests: The First 33-MHz 486s

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MAY 1990

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Mainstream Amiga

New Amiga 3000: Mac II power,
multitasking, multimedia...
at a Commodore price

Desktop Supercomputing

Техника PAGE 262

New Battery Technology for Laptops

Smoother VGA

Inside Tape Backup Systems

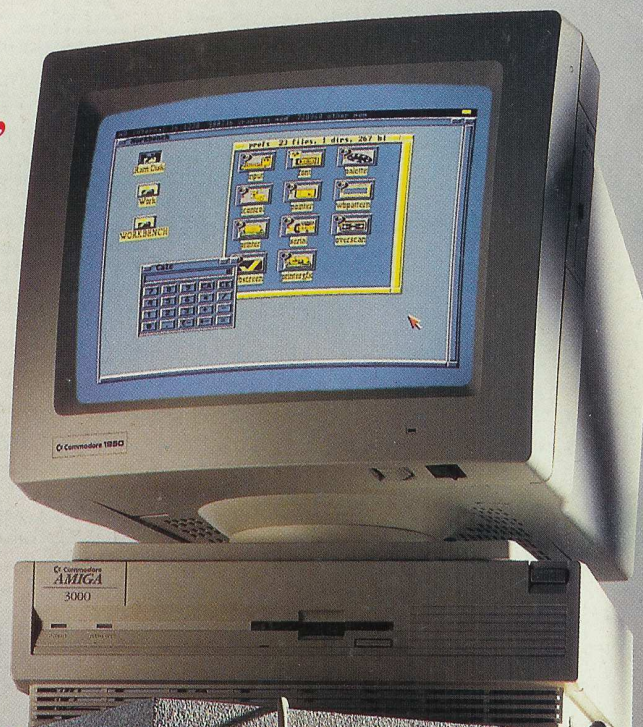
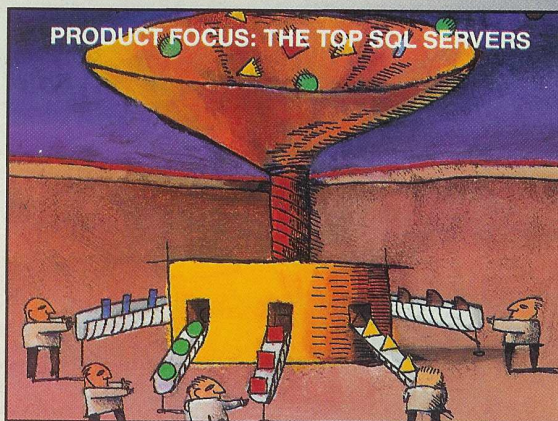
REVIEWS

4 386SX Laptops

5 New Trackballs

7 Updated TIGA Boards

Opus Desktop Tower



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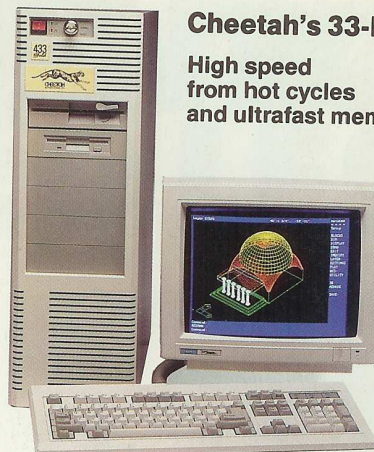
Low-cost peer-to-peer LANs

PAGE 142

BYTE

JUNE 1990

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Cheetah's 33-MHz 486

High speed
from hot cycles
and ultrafast memory

DOS will never be the same

Windows 3.0

Sun's New
SPARCStation SLC

State of the Art:
Networking

Linking DOS and Unix

ESDI Disks

Data Encryption

PLUS

Lotus Magellan 2.0

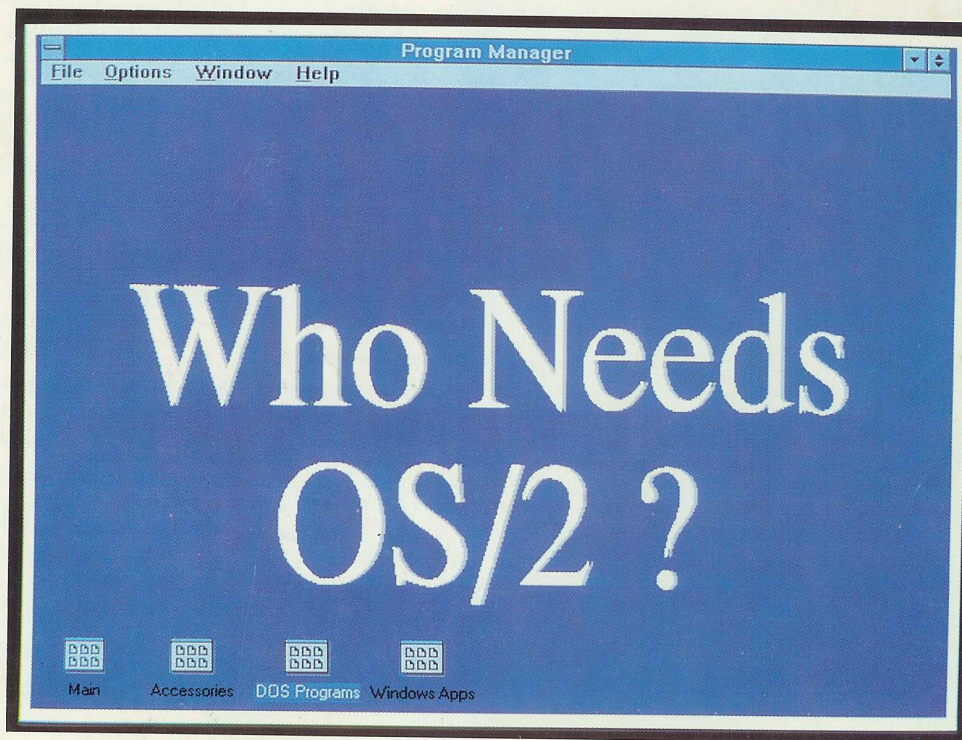
Modular 486s from AST
and ALR

Mac PageMaker 4.0

A VGA Multimedia
Board

Borland's New Turbo
Debugger

Full Impact 2.0



- graphical environment
- desktop applications
- DOS switcher
- V86 multitasker
- virtual memory manager



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Special: Computing Without Keyboards

FOLLOWS
PAGE 202

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TOO GOOD
TO BE TRUE?

The New
Airis Laptop:
High-end
features,
remarkable price
Page 133



LOW-COST LASERS

*BYTE Lab Tests:
18 HP-Compatible Printers*

Readers' VIP Awards

The First Windows 3.0
Applications

How Hand-Trackers Work

Inside PostScript

PLUS

Lotus Notes

Two New 486 Systems

FileMaster II vs. Zenith's Z-386/33E

Silicon Graphics' Personal Iris 4D/25

Zortech's new C++



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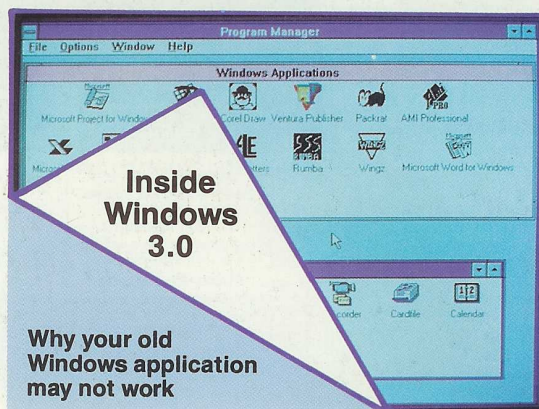
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End-User Programming: Powerful Tools, Quick Solutions PAGE 208

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386SX Showdown

The BYTE Lab compares
24 low-cost SX machines

New PostScript Printers
from QMS, Apple

Voice-Recognition Boards

Windows 3.0 Applications

Computing for the Handicapped

Apple/Microsoft's TrueType

PLUS

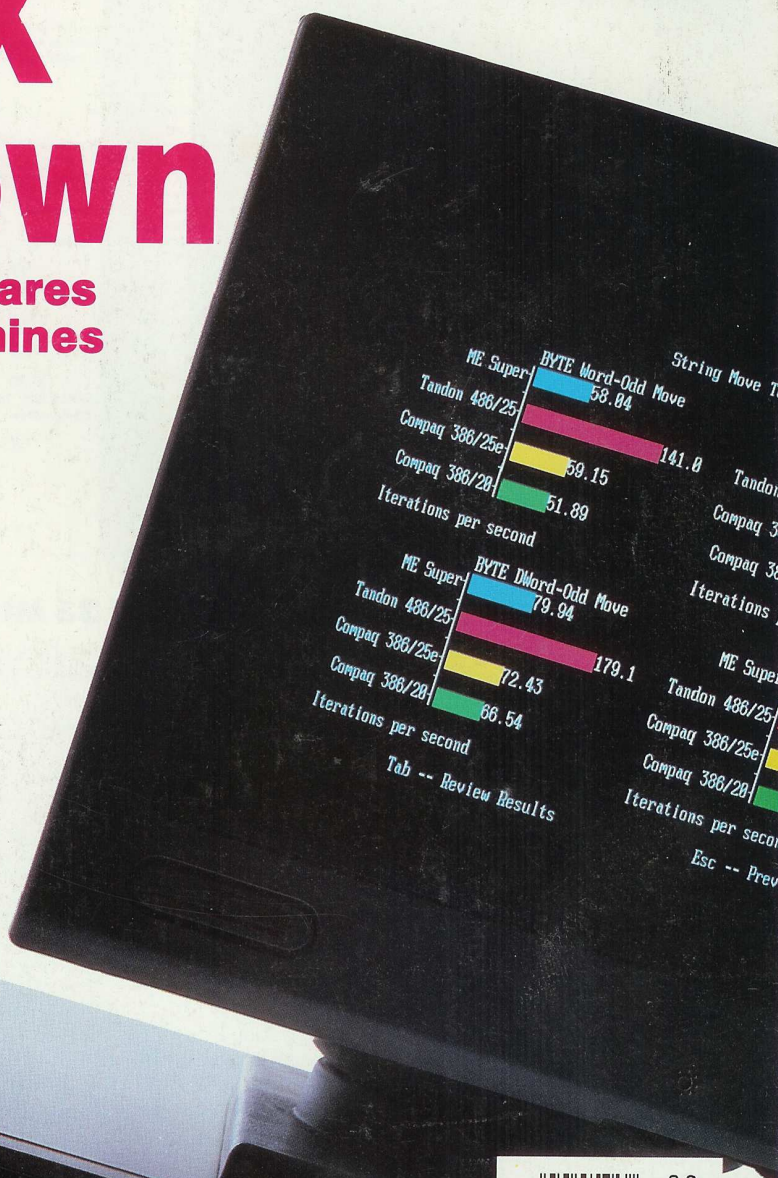
Current: IBM's Personal Info Manager

Ventura Publisher Moves to Windows

A/UX for the Macintosh

Micrografx Designer 3.0

New BYTE Lab Benchmarks



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PLUS: 13 Reviews, 6 First Impressions, 4 Features, and more

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63 of the World's Most Influential People in Personal Computing Predict the Future, Analyze the Present

- PAUL ALLEN, Microsoft/Asymetrix □ STEWART ALSOP, *P. C. Letter* □ ANDY BECHTOLSHEIM, designer/Sun Microsystems □ GORDON BELL, VAX designer/Stardent Computer □ JIM BLINN, graphics/Cal Tech □ GORDON CAMPBELL, early chips/Chips & Technologies □ ROD CANION, Compaq □ PAUL CARROLL, *Wall Street Journal* □ JOHN CAULFIELD, optics/University of Alabama □ JOHN COCKE, first RISC computer/IBM Fellow □ ESTHER DYSON, *Release 1.0* □ DOUG ENGELBART, groupware/Stanford University □ DAVID EVANS, graphics/Evans & Sutherland □ FEDERICO FAGGIN, early microprocessors/Synaptics □ LEE FELSENSTEIN, Osborne-1/Golems □ BOB FRANKSTON, spreadsheet/Lotus □ BILL GATES, Microsoft □ DANNY HILLIS, Connection Machine/Thinking Machines □ TONY HOARE, COBOL/DEC □ BRIT HUME, ABC News Chief □ PHILIPPE KAHN, Borland On Technology □ ALAN KAY, Fellow □ JOHN KEMENY, BASIC/programming/AT&T Bell Labs consultant □ GARY KILDALL, □ DONALD KNUTH, *T_EX* □ TOM KURTZ, BASIC/True BASIC TRS-80 designer/Adaptive Plus and BYTEWEEK □ JIM MARKOFF, *BYTE*/New York □ MCCLURE, CASE and consultant □ TOM computer-aided engineering/MINER, Amiga designer/MORI, superdistribution/Japan □ NICHOLAS Media Lab □ TED NELSON, (Autodesk) □ BOB NOYCE, Sematech □ KEN OLSEN, PAPER, Logo/MIT Artificial □ CHUCK PEDDLE, early □ DICK PICK, Pick Operating POURCELLE, *BYTE* columnist and dBASE III/Ratliff Software C and Unix/AT&T Bell Labs independent developer □ KEN SAKAMURA, Japan □ DICK SHAFFER, *Computer Letter* Microsoft □ MICHAEL SLATER, *Microprocessor* □ BILL STALLINGS, networking/C++/AT&T Bell Labs □ JONATHAN and *EDN News* □ JOHN WARNOCK, PostScript/Adobe Systems □ TERRY WINOGRAD, natural language/Stanford University □ NIKLAUS WIRTH, Pascal and Modula-2/Swiss Federal Institute of Technology (ETH) □ STEPHEN WOLFRAM, Mathematica/Wolfram Research □ ED YOURDON, CASE and object orientation/consultant
- programming theory/Oxford University □ GRACE HOPPER, White House Correspondent □ BILL JOY, SPARC/ □ MITCH KAPOR, Lotus and 1-2-3/ Dynabook and Smalltalk/Apple True BASIC □ BRIAN KERNIGHAN, □ JACK KILBY, integrated circuit/CP/M/Digital Research Stanford University □ STEVE LEININGER, □ RICH MALLOY, *BYTE* MANZI, Lotus □ JOHN Times □ CARMA object orientation/MCWILLIAMS, Amdahl □ JAY Ventritex □ RYOICHI University of Tsukuba, NEGROPONTE, MIT hypertext/Xanadu integrated circuit/DEC □ SEYMOUR Intelligence Laboratory microprocessors/THStyme System/Pick Systems □ JERRY □ WAYNE RATLIFF, dBASE II Production □ DENNIS RITCHIE, □ JONATHAN SACHS, Lotus 1-2-3/TRON Project/University of Tokyo, □ CHARLES SIMONYI, software developer/Report □ ALVY RAY SMITH, graphics/Pixar consultant □ BJARNE STROUSTRUP, TITUS, Mark-8 designer/*EDN Magazine*



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Head to Head

*7 Great DTP Packages
for Macs, PCs, and Unix*

**Understanding Ultrahigh
Capacity Floppy Disk Drives**

Smalltalk for the Nineties

**EISA 486s from Compaq,
Tandon, and Tangent**

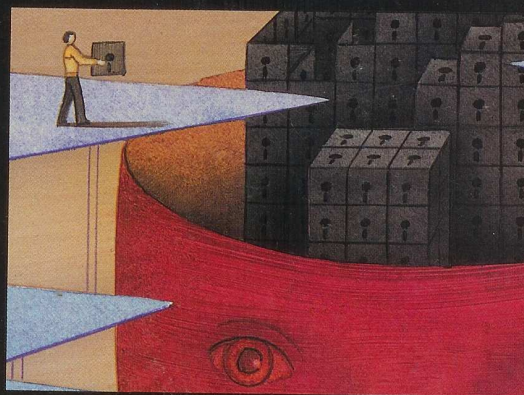
**Theos: An Alternative
Operating System**

Hercules's 24-bit Color

Improv: 1-2-3 Successor

3 20-MHz SXes

MacroMind's Director 2.0



Knowledge Engineering PAGE 268

**Is the Typesetter
Obsolete?**



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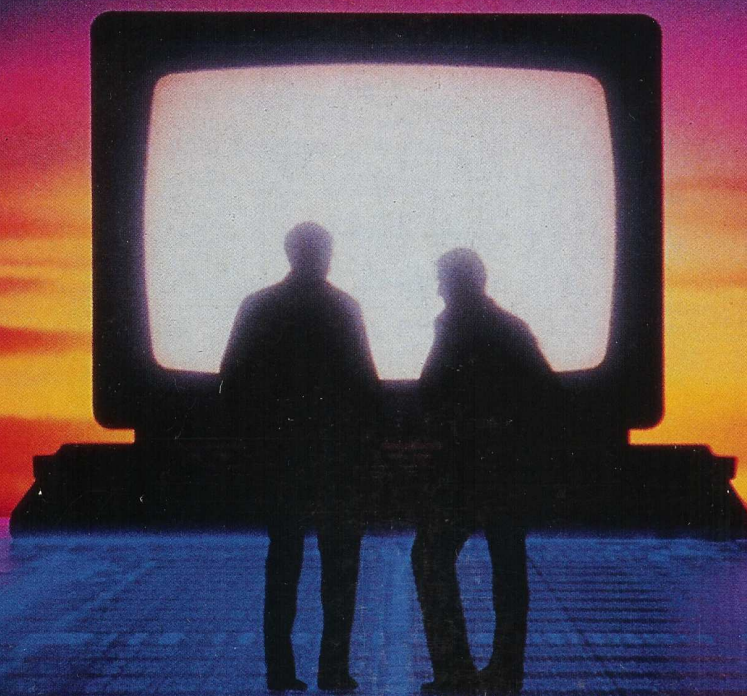
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Notebook Computers, DVI, SCSI
Optical Storage, Expert Columnists



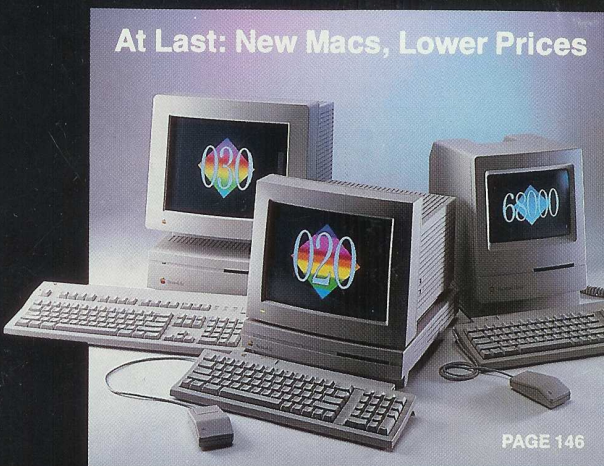
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Compaq's DAZZLING New Laptop



At Last: New Macs, Lower Prices

PAGE 146

*Everything a Deskpro 386/20
offers—in a 7½-pound package*

LTE 386s/20

State-of-the-Art Mass Storage:
Magnetic, Optical,
Holographic, and more

The New Quattro Pro
ALR's Modular Micro
Channel MPS

CPU Face-Off
Intel vs. Four Challengers

Lab Tests:
15 High-Capacity
SCSI Drives

Linux for Windows
Looking Glass vs. X.desktop
Canon's New Bubble-Jet Printer
GoFound vs. Imara
ST, Club American,
Verex 486/33s
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Poqet Portable



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*How 3-D Techniques, Advanced Color Technology,
and HDTV Will Put Workstation-Quality Graphics
on Your Desktop*

"Laptop on a Chip" designs

Understanding X.400

"Real" Relational Databases
vs. the Pretenders

Sony NeWS vs. MIPS Magnum

TI's New TravelMate 3000

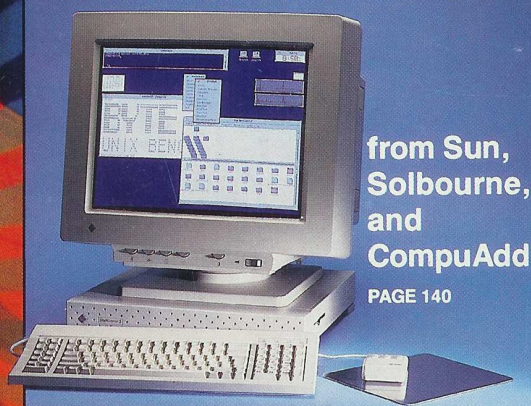
Norton Utilities for Unix, Mac

DR DOS 5.0

Dell Station 425E

Unix for the Amiga

New SPARCstations



from Sun,
Solbourne,
and
CompuAdd

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