

SETTING THE STANDARDS

15
YEARS

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

BYTE

SEPTEMBER 1990

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

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□ DOUG ENGELBART, groupware/Stanford University □ DAVID EVANS, graphics/Evans & Sutherland □ FEDERICO FAGGIN, early microprocessors/Synaptics □ LEE FELSENSTEIN, Osborne-1/Goleemics □ BOB FRANKSTON, spreadsheet/Lotus □ BILL GATES, Microsoft □ DANNY HILLIS, programming theory/Oxford University □ GRACE HOPPER, White House Correspondent □ BILL JOY, SPARC/

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□ 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, PAPERTECH, 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

□ 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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AN OPEN AND SHUT CASE FOR DELL.

Not only does our laptop cost \$2,500 less than their laptop, it also happens to give you a great deal more for your money.

Like a choice of 20 MB (which brings the price down to \$3,199) and 40 MB hard drives.

Dell's unique "Continuous Power Battery System" that allows you to maintain your screen and save your data, even while you're changing batteries.

An industry standard half-card 8-bit slot that can be used for a network card or other advanced communications. And a dedicated slot for a Dell Data/Fax modem.

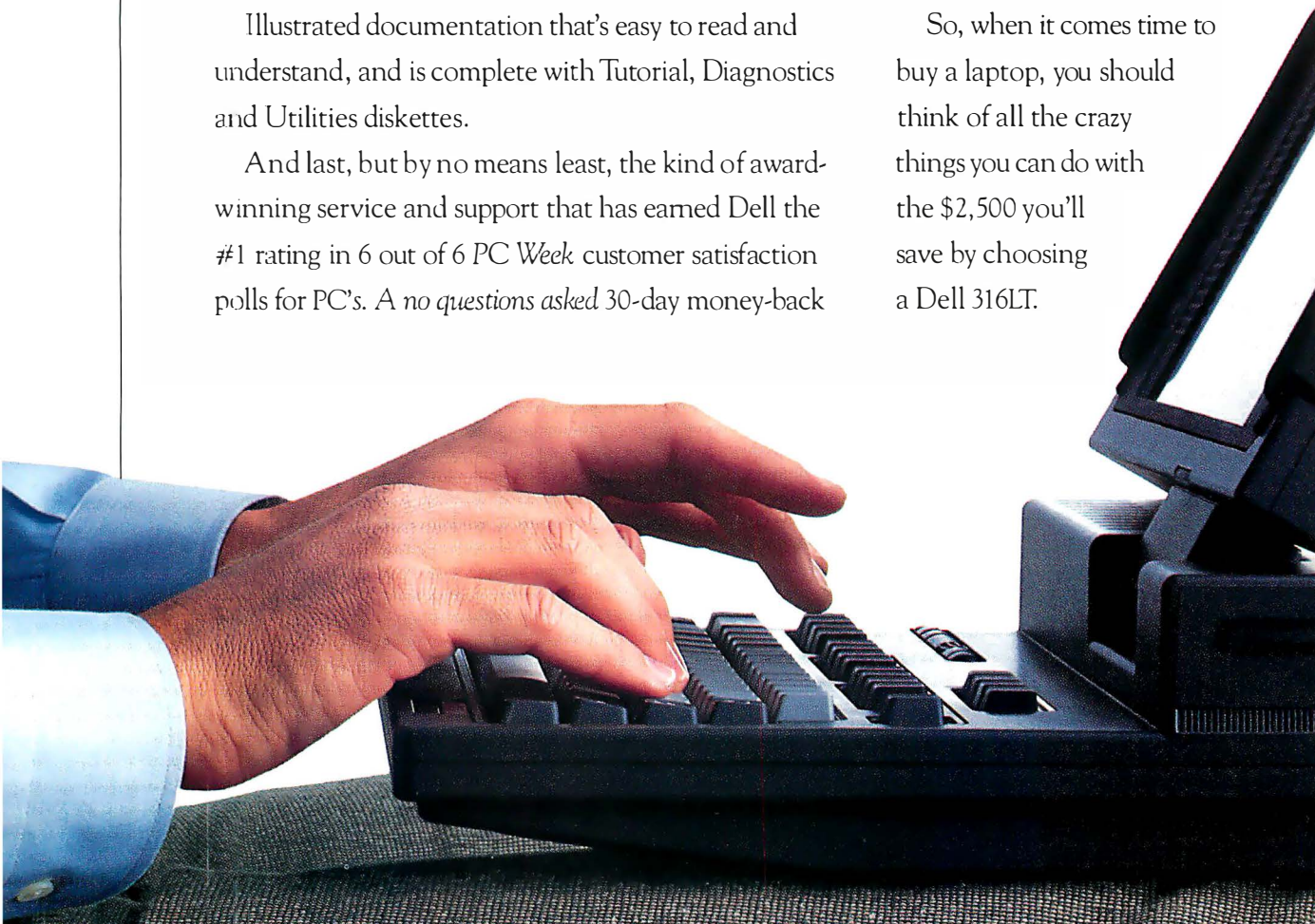
Illustrated documentation that's easy to read and understand, and is complete with Tutorial, Diagnostics and Utilities diskettes.

And last, but by no means least, the kind of award-winning service and support that has earned Dell the #1 rating in 6 out of 6 *PC Week* customer satisfaction polls for PC's. A *no questions asked* 30-day money-back

guarantee and one-year limited warranty with technical support. And a full year of on-site service from the Xerox Corporation that get that service nearly anywhere in the world, even if you're a thousand miles from home. It means you'll never have to take anything out of service. Because when you buy from Dell, service comes to you.

Give us a call and we'll show you how easy it is to own the Dell 316LT through many purchase and lease plans that are available.

So, when it comes time to buy a laptop, you should think of all the crazy things you can do with the \$2,500 you'll save by choosing a Dell 316LT.



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THE NEW DELL i486™ 33 MHz AND 25 MHz EISA SYSTEMS.

The best value in high performance PCs, combining i486 performance, 32-bit EISA I/O bus, and the industry's top rated service and support.

STANDARD FEATURES:

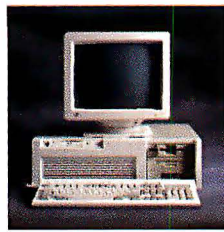
- i486 microprocessor running at 33 MHz or 25 MHz.
- 32-bit EISA bus architecture (downward compatible with ISA).
- Standard 4 MB of RAM* expandable to 16 MB on system board, using optional 1 MB and 2 MB SIMMs.
- VGA systems video adapter.
- Integrated 387 compatible math coprocessor.
- 5.25" 1.2 MB or 3.5" 1.44 MB diskette drive.
- 5 half-height drive bays.
- Dual diskette and hard drive controller.
- Six 32-bit EISA (ISA compatible), plus two 16-bit ISA expansion slots.
- High-performance IDE (80MB, 100MB, 190 MB), and ESDI (330 MB, 650 MB) hard disk drives.
- Enhanced 101-key keyboard.
- 1 parallel and 2 serial ports.
- 230-watt power supply.
- 12-month On-Site Service Contract provided by Xerox.†

**Commercial Lease Plan.

Lease for as low as \$286/month (433E) and \$232/month (425E).
†Xerox Extended Service Plan pricing starts at \$617 (425E) and \$672 (433E).

	433E	425E
80 MB VGA Monochrome System	\$7,899	\$6,399
190 MB VGA Color Plus System	\$8,699	\$7,199
330 MB Super VGA Color System (800 x 600)	\$9,599	\$8,099
650 MB Super VGA Color System (800 x 600)	\$10,799	\$9,299

Prices listed include 4 MB of RAM, 100 MB hard drive configurations also available.



THE DELL SYSTEM 325 25 MHz 386 AND DELL SYSTEM 310 20 MHz 386.

The best combination of performance and value available in their class.

STANDARD FEATURES:

- Intel® 80386 microprocessor running at 25 MHz: (Dell 325) or 20 MHz: (Dell 310).
- Standard 1 MB of RAM, optional 2 MB or 4 MB of RAM* expandable to 16 MB (using a dedicated, high-speed 32-bit memory slot).
- Advanced Intel 82385 Cache Memory Controller with 32 KB of high-speed static RAM cache.
- Page mode interleaved memory architecture.
- Socket for Intel 80387 or WEITEK 3167 math coprocessor.
- 5.25" 1.2 MB or 3.5" 1.44 MB diskette drive.
- Enhanced 101-key keyboard.
- 1 parallel and 2 serial ports.
- 200-watt power supply.
- 8 industry standard expansion slots (6 available).
- 12-month On-Site Service Contract provided by Xerox.†

**Commercial Lease Plan. Lease for as low as \$131/month (325) and \$121/month (310).

†Xerox Extended Service Plan pricing starts at \$370 (325) and \$251 (310).

	325	310
40 MB VGA Monochrome System	\$3,599	\$2,999
80 MB VGA Color Plus System	\$4,099	\$3,499
80 MB Super VGA Color System (800 x 600)	\$4,199	\$3,599
190 MB Super VGA Color System (800 x 600)	\$4,699	\$4,099

Prices listed include 1 MB of RAM, 100, 330 and 650 MB hard drive configurations also available.



THE NEW DELL SYSTEM 320LX 20 MHz 386SX.

One of the fastest SX's around.

STANDARD FEATURES:

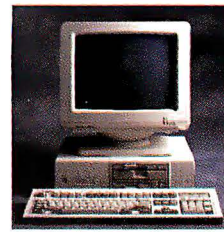
- Intel 80386SX microprocessor running at 20 MHz.
- Standard 1 MB of RAM* optional 2 MB or 4 MB expandable to 16 MB (8 MB on the system board).
- VGA systems include a high-performance 16-bit video adapter.
- LIM 4.0 support for memory over 1 MB.
- Socket for Intel 20 MHz 80387SX math coprocessor.
- 5.25" 1.2 MB or 3.5" 1.44 MB diskette drive.
- Integrated high-performance hard disk interface and diskette controller on system board (ESDI-based systems include a hard disk controller).
- 1 parallel and 2 serial ports.
- Enhanced 101-key keyboard.
- 200-watt power supply.
- 8 industry standard expansion slots (7 available).
- 12-month On-Site Service Contract provided by Xerox.†

**Commercial Lease Plan. Lease for as low as \$98/month.

†Xerox Extended Service Plan pricing starts at \$261.

	320LX
40 MB VGA Monochrome System	\$2,599
40 MB VGA Color Plus System	\$2,899
80 MB Super VGA Color System (800 x 600)	\$3,199
100 MB Super VGA Color System (800 x 600)	\$3,300

Prices listed include 1 MB of RAM, 190, 330 and 650 MB hard drive configurations also available.



THE DELL SYSTEM 316SX 16 MHz 386SX and DELL SYSTEM 210 12.5 MHz 286.

The perfect low profile mainstream computers.

STANDARD FEATURES:

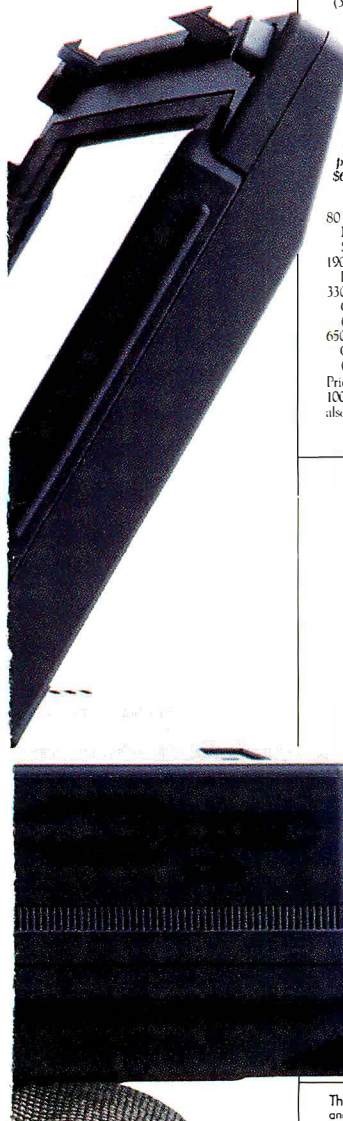
- Intel 80386SX microprocessor running at 16 MHz: (Dell 316SX) or 80286 microprocessor running at 12.5 MHz: (Dell 210).
- Standard 512 KB of RAM, optional 640 KB, 1 MB or 2 MB of RAM* expandable to 16 MB (8 MB [316SX] and 6 MB [210] on system board).
- Page mode interleaved memory architecture.
- LIM 4.0 support for memory over 640 KB.
- Socket for Intel 80387SX (316SX) and 80287 (210) math coprocessor.
- 5.25" 1.2 MB or 3.5" 1.44 MB diskette drive.
- Enhanced 101-key keyboard.
- 1 parallel and 2 serial ports.
- 3 full-sized 16-bit AT expansion slots available.
- 12-month On-Site Service Contract provided by Xerox.†

**Commercial Lease Plan. Lease for as low as \$73/month (316SX) and \$62/month (210).

†Xerox Extended Service Plan pricing starts at \$196 (316SX) and \$158 (210).

	316SX	210
20 MB VGA Monochrome System	\$1,949	\$1,649
40 MB VGA Color Plus System	\$2,449	\$2,149
40 MB Super VGA Color System (800 x 600)	\$2,549	\$2,249
80 MB Super VGA Color System (800 x 600)	\$2,749	\$2,449

Prices listed include 1 MB of RAM. 2 MB versions of the above systems are available for an additional \$100. 100 and 190 MB hard drive configurations also available.



THE DELL SYSTEM® 316LT 16 MHz 386SX.

This full-featured, battery-powered 386SX laptop costs less than most 286 laptops.

STANDARD FEATURES:

- Intel 80386SX microprocessor running at 16 MHz.
- Standard 1 MB of RAM, optional 2 MB of RAM* expandable to 8 MB (on the system board using 1 MB SIMMs).
- LIM 4.0 support for memory over 1 MB.
- Adjustable and detachable 640 x 480 VGA Liquid Crystal Display.
- One industry standard half-size 8-bit expansion slot.
- Socket for 16 MHz Intel 80387SX math coprocessor.
- 3.5" 1.44 MB diskette drive.
- 83-key keyboard with embedded numeric keypad and separate cursor control keys.
- 1 parallel, 1 serial, and external VGA monitor port.

- Connector for 101-key keyboard or numeric keypad.
- Connector for external 5.25" 1.2 MB diskette drive.
- Two removable and rechargeable NiCad battery packs utilizing Dell's "Continuous Power Battery System" (patent pending).
- AC Adapter.
- 12-month On-Site Service Contract provided by Xerox.†

**Commercial Lease Plan. Lease for as low as \$120/month.

†Xerox Extended Service Plan pricing starts at \$303.

20 MB, 1 MB RAM	\$3,199
20 MB, 2 MB RAM	\$3,399
40 MB, 1 MB RAM	\$3,499
40 MB, 2 MB RAM	\$3,699

The Dell Systems 433E and 425E are FCC Class A devices and for use in commercial environments only. Performance Enhancements: Within the first megabyte of memory, 128 KB (316SX, 316LT and 210) or 384 KB (320LX, 310, 325, 425E and 433E) of memory is reserved for use by the system to enhance performance. Can be optionally disabled on 316SX and 210. All systems are photographed with optional extras. All prices and specifications are subject to change without notice. Dell cannot be responsible for errors in typography or photography. †Payment based on 36-month open-end lease. Leasing arranged by

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Toshiba
T3100SX
16 MHz
80386SX
40 MB
1 MB RAM
VGA
14.9 lbs

\$5,999

**YOU'D HAVE TO
BE CRAZY TO BUY
ONE OF THESE
AWARD-WINNING**



Dell 316LT
16 MHz
80386SX
40 MB
1 MB RAM
VGA
15.0 lbs

The laptop above is ours. The Dell™ 316LT. It comes with an Intel® 386™SX CPU running at 16 MHz. 1 MB of RAM, expandable to 8 MB, and a backlit VGA display. With a 40 MB hard drive it weighs 15 lbs. It won the *InfoWorld* Exceptional Value Award, and was one of only two 386SX laptops to win the *PC Magazine* Editor's Choice Award.

The one with the reddish screen on the opposite

page is theirs. The Toshiba T3100SX. With the same configuration as our laptop. It didn't win the same award from *InfoWorld*. But it did tie with Dell for *PC Magazine* Editor's Choice Award. Which is where the similarities stop.



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