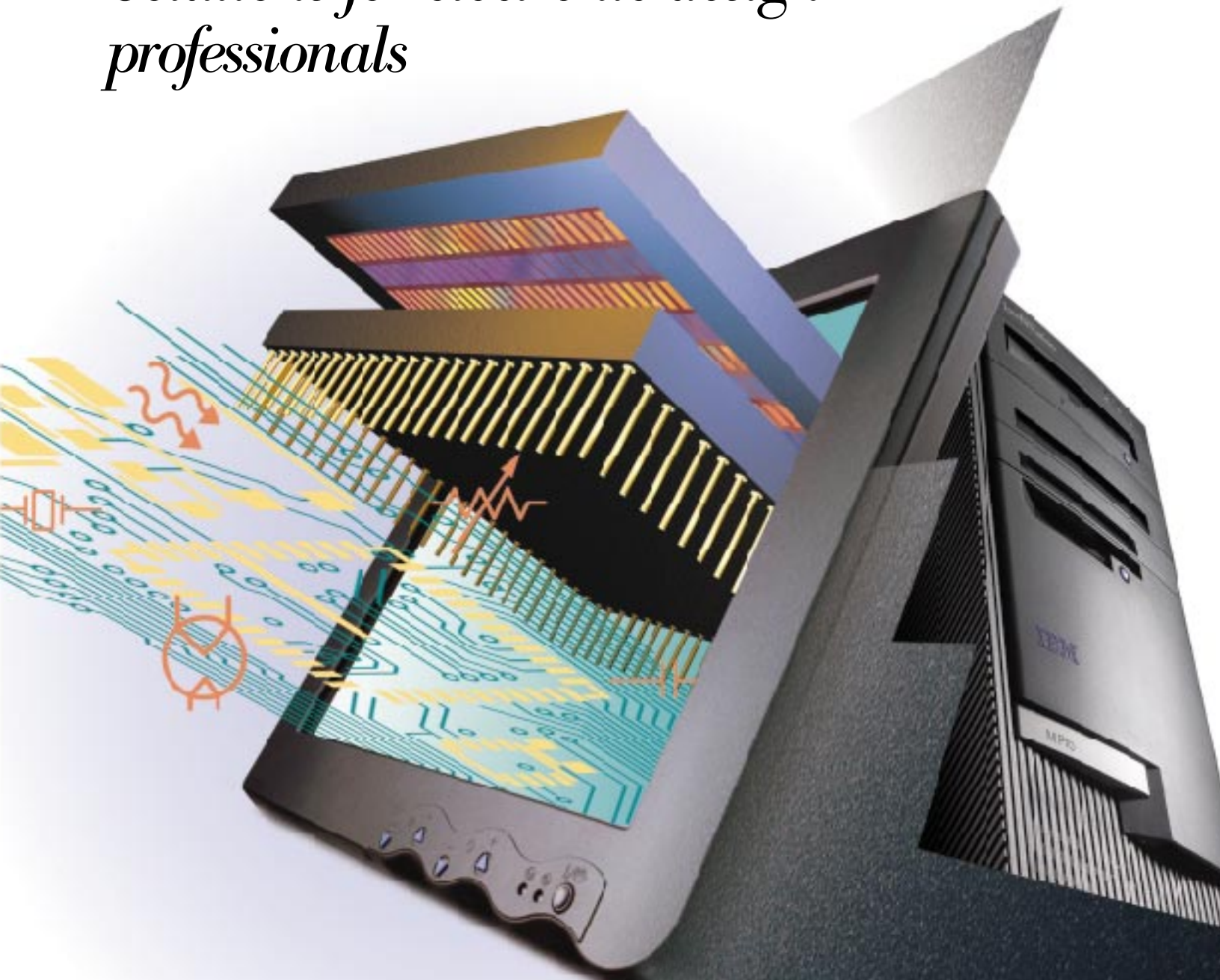


The IBM IntelliStation



*Solutions for electronic design professionals*



IBM IntelliStation

## *Moving at the speed of thought*

### **The silicon challenge**

The question is no longer "How many gates can you fit on the head of a pin?" but "How fast can you get it to market – and at what cost?" At the 50th anniversary of the transistor, EDA is a discipline in transition. Among the trends well underway is the migration from UNIX to the new industry standard epitomized by the IBM IntelliStation series. Powered by Intel's most advanced processors and running the software essential to your job – now optimized for Microsoft Windows NT – the IBM IntelliStation is the logical successor to proprietary platforms. The impressive integer performance, responsive graphics, generous industry-standard expandability and seamless integration with current and evolving work environments equips you with a tool that is both an expression – and a conduit – of elegant electronic design.

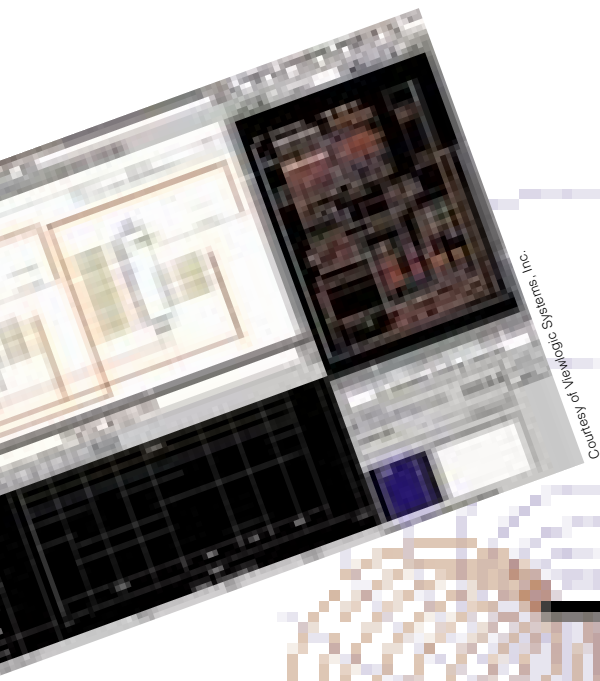
### **Killer apps have met their match**

Your specialized applications – from schematics capture to auto-routing to simulation – are the ultimate test of the IntelliStation's award-winning design.<sup>1</sup> With ever-narrowing time-to-market windows, the criteria for your next workstation can be nothing less than potent performance, faultless reliability, and worry-free software compatibility – the very standards the IBM IntelliStation meets through certification by leading EDA software vendors. Their rigorous testing confirms the application-focused performance and compatibility of the IBM IntelliStation, as well as giving you the assurance of expert, coordinated support encompassing both hardware and software issues. For the real-world challenge you face every day, IBM is ready to assist you with vast cross-platform experience, world-class service, and a long tradition of collaboration with the electronics industry.

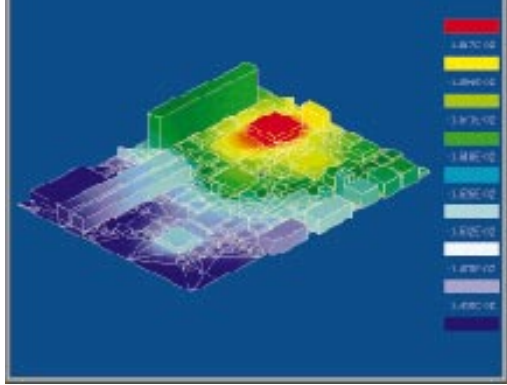


### **Cross the platform boundaries with IntelliStation**

The IBM IntelliStation series combines Intel's most advanced processors with Microsoft Windows NT 4.0, for 32-bit speed and muscle. Like its UNIX peers, the IBM IntelliStation delivers a robust multitasking, multiprocessor design solution. Add to the bargain enhanced personal productivity, as well as more seats for your IT dollar, and you're ready to run your demanding EDA tools in harmony with your everyday business applications. Command tasks with ease from the familiar Windows NT toolbar, switching on the fly from scripting to netlist verification to researching the Web for component specs or simulation models. Plug-and-go Ethernet 10/100 is standard, making the connection with UNIX environments a convenient cross-platform reality. For critical applications that have yet to migrate to Windows NT, the Hummingbird "Try-and-Buy" Software Suite is included for efficient UNIX emulation on your IntelliStation. From input to output, the IBM IntelliStation is the integrated solution for simplifying your increasingly complex world.



© 1997, International Business Machines Corporation



Courtesy of Parametric Technology Corp.

**IntelliStation at a Glance**

	<b>M Pro</b>	<b>Dual M Pro</b>	<b>Z Pro</b>
<b>Processor</b>	266MHz, 300MHz Pentium II processor	Single or dual 233MHz, 266MHz 300MHz Pentium II processors	Single or dual 200MHz Pentium Pro processors
<b>L2 cache</b>	512KB on-board	512KB on-board	256 or 512KB on-chip at 200MHz
<b>Memory maximum</b>	512MB	512MB	1GB
<b>Type/speed/total sockets</b>	EDO ECC/60ns/3DIMMs	SDRAM ECC/60ns/4DIMMs	EDO ECC/60ns/4 DIMMs
<b>Wide Ultra SCSI hard drives</b>	4.3GB/5400rpm	Up to 9.1GB/7200rpm(optional)	2.1 and 4.5GB/7200rpm
<b>Slots/Bays</b>	5 slots/5 bays	6 slots/6 bays	7 slots/6 bays
<b>Graphics engines</b>	Matrox Millennium Intergraph Intense3D Pro 1000/T	PERMEDIA 2 Intergraph Intense3D Pro 2200/T	Matrox Millennium Intergraph Intense3D Pro 1000/T

**Super-charged performance for deep sub-micron design**

IBM has the precision tool you need to move your design through the development cycle in record time. The IBM IntelliStation burns through design iterations fueled by industrial-duty Intel Pentium II processors with MMX technology. In single or dual processor configurations up to 300MHz<sup>2</sup>, these IBM dynamos offer multitasking performance rivaling – even surpassing – proprietary workstations. For marathon simulations, the IntelliStation is fortified with massive memory configurations expandable up to 1GB for huge data sets, ultra-fast 7200rpm hard drives available up to 9.1GB<sup>3</sup>, and standard Wide Ultra SCSI throughput at up to 40MBps per channel. To keep your design momentum flowing, IntelliStation offers leading graphics engines from 3Dlabs, Matrox, and Intergraph for super-crisp screen

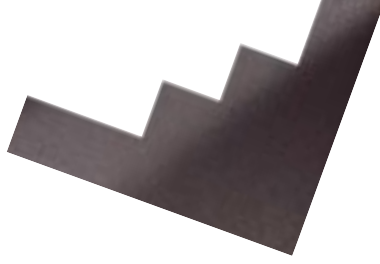
response. For demanding EDA projects, the PERMEDIA 2 graphics adapter is the card to watch. This 24-bit screamer – based on 3Dlabs GLINT technology – taps into the dedicated Accelerated Graphics Port, with pipelined access to system memory delivering a brilliant 129 score on the Winbench test.<sup>4</sup> With balanced integration of these advanced standards-based technologies, the IBM IntelliStation sets the pace for technical application performance.

**Master your domain with advanced manageability**

IBM is committed to help you manage and protect your workstation investment. For example, IBM IntelliStations are equipped with intelligent hard drive diagnostics and DMI-compliant instrumentation. Monitor the health of your systems with IBM's predictive failure analysis tool that eliminate disruptive downtime. IBM's Wake on LAN (WOL) provides key technology for remote system management, from booting groups of computers for software updates to standardizing the BIOS/CMOS setup of every WOL-enabled computer on the network – simultaneously. IBM's Netfinity Manager and Intel's LANdesk software clients<sup>5</sup> are included, providing unprecedented control over your domain. Work assured knowing IBM's customer service and support team is on alert 24 hours a day, 7 days a week,<sup>6</sup> armed with power tools like CoSession for remote problem resolution. With IBM, advanced manageability is standard with every system.



*The IBM IntelliStation – where data becomes a wealth of information*



## IBM SystemXtra—your competitive edge

IBM SystemXtra is designed to make the most of your IT investment by combining a host of technologies, services and convenient financing to make your job easier. Available exclusively through IBM Business Partners, services include training, on-site recovery assistance and network maintenance. Combined with IBM's Technology Exchange—a flexible and affordable way to upgrade your leased computers after only two years—this resourceful program brings you the worldwide expertise of IBM Global Services, with the personal attention of your trusted IBM Business Partner—all for a single, monthly payment.

## Visit your IBM Business Partner

to view the intelligent performance of the IBM IntelliStation series. Or get a preview and the full list of certified EDA applications at our Web site: [www.us.pc.ibm.com/intellistation](http://www.us.pc.ibm.com/intellistation)

© International Business Machines Corporation 1997

IBM Personal Computer Company  
Department MFZA  
3039 Cornwallis Road  
Research Triangle Park, NC 27709

Printed in the United States of America  
10-97  
All Rights Reserved

<sup>1</sup> M Pro model 6888 Best of Byte award winner  
Comdex Spring 97.

<sup>2</sup> MHz only measures microprocessor clock speed, not application performance. Many factors affect application performance.

<sup>3</sup> GB equals one billion bytes when referring to hard drive capacity. Accessible capacity may vary.

<sup>4</sup> IBM results using WinBench 97 v1.0 Business Graphics WinMark 97; 1024x256 colors, Windows NT 4.0 SP2. Benchmarks submitted to the OpenGL Performance Characterization Organization: [www.specbench.org/GPC/OPC.static/](http://www.specbench.org/GPC/OPC.static/)

<sup>5</sup> Provided on CD-ROM at no additional charge.

<sup>6</sup> Excluding some holidays. Response time may vary.

IBM, IntelliStation, IBM SystemXtra, Media Content Manager, Digital Library, NetFinity, LANClient Control Manager and Wake on LAN are trademarks or registered trademarks of International Business Machines Corporation. Microsoft and the Windows NT logo are trademarks of Microsoft Corporation. Intel, Pentium, MMX and LANDesk are trademarks or registered trademarks of Intel Corporation. UNIX is a registered trademark in the U.S. and other countries licensed exclusively through X/Open Company Limited. Other company, product and service names may be trademarks or service marks of others.

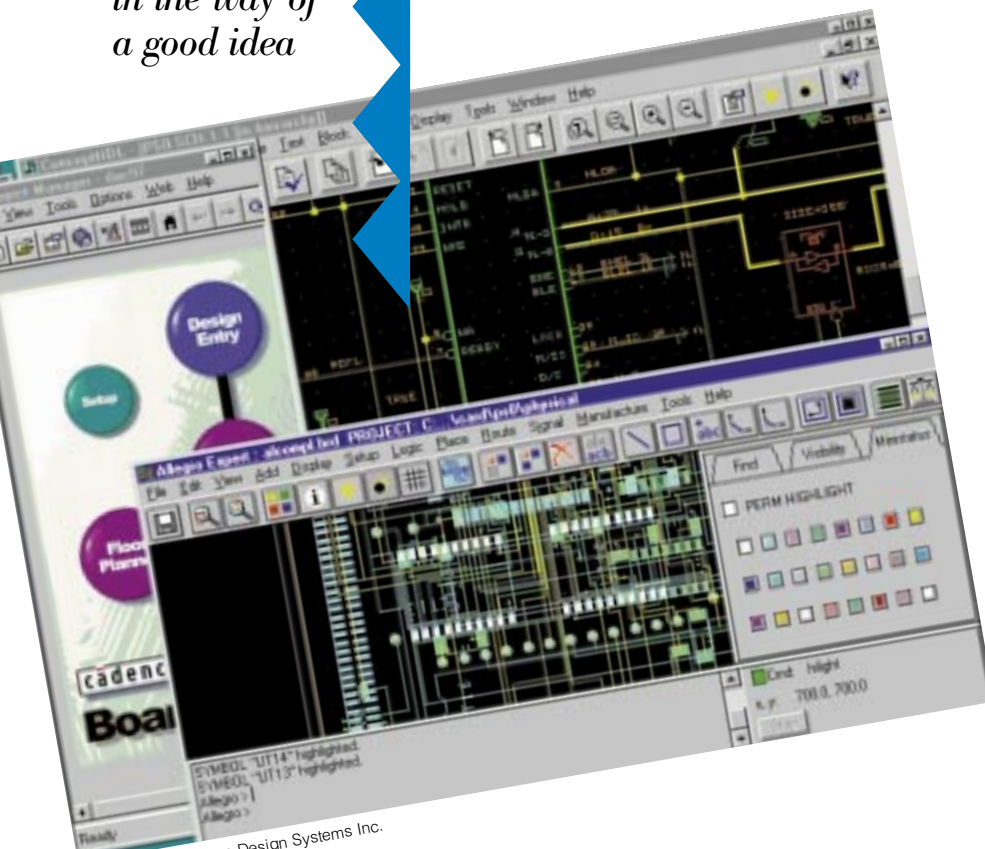
This publication was published in the United States. IBM may not offer products, services or features discussed in this document in other countries and the information is subject to change without notice. Consult your local IBM representative for information on the products, services and features available in your area.

International Business Machines Corporation provides this publication "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.



Printed on recycled paper containing 10% recovered post-consumer fiber.

*Nothing gets in the way of a good idea*



Courtesy of Cadence Design Systems Inc.



Tested, warranted and supported by manufacturer to IBM IntelliStation Compatibility Standards.