



The Toronto OS/2 User's  
Group's Newsletter

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Price: \$1.00  
Free to Paid TO/2 Members

# Workspace On Demand

Newsgroups: comp.os.os2.advocacy

## The Workspace On Demand Manager - Key to Cost of Ownership Reductions

IBM's Workspace On Demand, optimized for network computing, managed clients and 100% Pure Java, resides on top of OS/2 Warp Server. It consists of two components: a client operating system image and a set of server-side utilities to manage that environment.

This set of utilities, collectively known as the Workspace On Demand Manager, centrally manages a variety of client operating system images -- OS/2, DOS or Windows 3.x -- that are booted from the server. The following core capabilities are instrumental to reducing networked PCs ownership costs.

## Configuration of the Client Operating System Image

The Workspace On Demand graphical user interface (GUI) exploits the same drag and drop features found in OS/2 Warp Server and LAN Server 4.0. Rather than traveling to individual workstations, a system administrator can configure a client operating system image or "boot image" with these tools using a network client template located on the server.

In addition to the graphical management functions, Workspace On Demand provides a command line interface. Administrators who manage a large number of users can then use scripts and batch files to quickly automate set up and other processes.

Because Workspace On Demand supports both standard and disk-less PC clients, the administrator can specify whether the machine uses a hard disk or not. The administrator can also set up memory "swapping" across the network or on a local disk to enhance performance and reduce network traffic. The administrator can also control client monitors from the server -- adjusting screen resolution and refresh rates.

In addition, Workspace On Demand introduces a new concept called "machine class" -- a template which defines a fully configured client machine. A machine class can be thought of as a prepackaging of all the files and device drivers needed to run a machine. This concept eliminates many of the usual client configuration steps.

## System Software Configuration

Workspace On Demand supports automatic configuration of client IP addresses using the Dynamic Host Configuration Protocol (DHCP). However, if DHCP is not implemented, the system administrator can manually set up the TCP/IP parameters



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## Workspace On Demand

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(host name, IP address, router, gateway, etc.) by entering the information into an easy-to-use panel.

## Booting the Client from the Network

Once a client image is created and configured, the system is ready to be powered on. At power-on time the server determines the right boot image to send to the client machine. The client then displays a log-on panel on where the user enters an ID and password. After the server validates this information, it populates the desktop with icons representing the applications defined for that specific user.

## Setting Up Applications

The Workspace On Demand environment consists of public network applications residing on a server. Using a template from the server, the administrator sets up a directory containing each application and the network resources (files, printers) it needs when launched.

Traditionally, an application running on a client machine is installed on the client itself. With Workspace On Demand, however, application configuration information is maintained centrally on the server. When an end user double clicks on an icon to launch an application, the server downloads all the necessary information. This capability makes it much easier for enterprise environments to deploy and change applications. If an application needs to be upgraded or changed, an administrator can modify it at one location -- on the server.

### Coming Soon:

**February, 1997** - to be announced, topic ideas welcome.

**March, 1998** - to be announced, topic ideas welcome.

**Come on out and be part of the best OS/2 User Group in Canada!**

By dragging and dropping application icons on an user or group icon, the administrator can associate specific users with certain applications. This flexibility is not available on competing platforms. System administrators can also set up access control to shared resources using the Group Management GUI. Shared resources include directories, printers and communication devices.

## User ID Management

Workspace On Demand provides a GUI-based user administration tool that allows the network manager to easily set up IDs and passwords. Each user has a home directory located on the server, where he can store personal files. To control server disk usage, the administrator can define space limits for each user. The administrator can also assign privileges and specify which applications a user can access. The administrator can categorize users, assigning them to various groups, which he can then manage as a single entity.

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## Real Communicator/2 Screen Shots!!!!

**Newsgroups:** *comp.os.os2.advocacy, comp.os.os2.beta, comp.os.os2.apps*

That's right folks! NetScape Communicator/2 is coming real soon.

Take a look at:

<http://people.netscape.com/danda/commu n.html>

### This Month's Agenda:

**Jan. 8, 1998** - Elections!!

*NOTE: Due to lack of information from the TO/2 Programming SIG leader, you will have to watch for e-mail notice of any meeting dates.*



## Do You Need a 128bit Netscape for OS/2?

How to make your need of 128bit Netscape for OS/2 known.

The following is clipped from the page at: <http://www.os2ezine.com/v2n6/news.htm>

To read the full details see the above page. But here is the long and short of it:

If you've been irritated that Netscape hasn't yet produced a more secure version of NavOS/2 for on-line transactions, don't be. Netscape finished the 128-bit secure version of NavOS/2 months ago and gave it to IBM. IBM has been hung up ever since, trying to find a way around the US export restrictions on the security algorithms in the browser. Is it just me, or does it seem strange that Netscape doesn't have any problem with export restrictions when they market 128-bit secure versions on other platforms? Why doesn't IBM just do what Netscape does?

Anyway, if you need the 128-bit version for on-line banking or whatever, IBM has a list of customers who are waiting for it; as

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## Contacting TO/2

**WWW:** <http://www.to2.org/>

**BBS: NO LONGER AVAILABLE**

**E- Mail:** [to2@to2.org](mailto:to2@to2.org)

**Mailing List:** [to2ug-l@to2.org](mailto:to2ug-l@to2.org)

Meetings are the second Thursday of every month at:

**IBM Canada  
Main Auditorium  
3600 Steeles Avenue East  
Markham, Ontario**

**Meetings begin at 7:00 PM**

## Do You Need a 128bit Netscape for OS/2?

*Continued from page 2 ...*

soon as IBM finds some way around the export restrictions, the people on this list will be first to get a copy.

The person to contact at IBM about getting the 128-bit version is Debbie Bandera -- she'll forward your messages on to the correct person at IBM and make sure your name's on the list. Hopefully when IBM sees how many people have a legitimate need for the more secure version of NavOS/2, they'll work harder at getting it out the door.

Phillip Catt  
[prcatt@netrover.com](mailto:prcatt@netrover.com)

## Greetings from Philly

Date: Fri, 17 Oct 97 12:20:29

Greetings!

I'm writing in behalf of the Philadelphia Area Computer Society OS/2 SIG. Our new web site points to your site. We are growing as a group, in terms of monthly attendance and activities. Keep us in mind if/when any ideas come up where we could here in Philadelphia do something parallel. Larry Lavins is our group leader, and he has arranged a long series of fascinating speakers and presenters at our monthly meeting. Our group's original founder, David Moskowitz, (yes, 'the' David Moskowitz) can attend nearly every meeting. Also Ben Bowers, one of the sys-ops on Compuserve's OS/2 Central Forum, is at every meeting. Frequently Larry Finkelstein (Golden Compass, OS/2 Central) can attend. Discussion of OS/2 topics can cover items of user interest levels, or instantaneously warp to interstellar levels, as energy and the clock permit. We meet at IBM offices at Valley Forge, just north of the city.

Tom MacKnight  
[macknig@ibm.net](mailto:macknig@ibm.net)  
**PHILLYOS2.ORG**

# Death Knell for Desktop OS/2?

Announcement  
November 24, 1997

<http://www.zdnet.com/zdnn/content/zdnn/1124/245306.html>

IBM's decision to move a number of former OS/2 managers and developers into a newly created network computing division is the final death knell for OS/2 on the desktop, according to developers and partners close to IBM.

Once seen as the PC operating system that would eventually replace DOS, OS/2 was co-developed by IBM and Microsoft Corp. in the 1980s. But Microsoft eventually cast its lot behind Windows, and IBM never became as successful selling OS/2 to corporations, or the consumer version, Warp, to consumers.

"The OS/2 group from PSP (the Personal Software Products division) will remain and will continue to promote and enhance Workspace On-Demand "WOD] and OS/2 LAN Server as well as to support Warp," said an official with a partner close to IBM, who requested anonymity. "It does pretty much signal the end of feature development for the Warp desktop OS."

Another developer characterized the reorganization, which went into effect Nov. 14, as "PSP closing its doors." PSP was the Austin, Texas-based group charged with developing, marketing, and maintaining OS/2 in all its forms.



"PSP no longer exists," acknowledged an IBM spokesman. "But neither does Networking Software. The people who were part of PSP are now part of something bigger. We're now a piece of IBM's software strategy in the Java space."

The IBM spokesman added that IBM had already stated that it did not plan to continue to enhance OS/2 as a consumer

desktop. Instead, Workspace on Demand will be the preferred client and Warp Server will be IBM's server operating system, he said. A new version of Warp Server is on target for delivery at the end of 1998, he said.

On Nov. 14, IBM created the Network Computing Software Division, headed by Mike Lawrie, former head of PSP, which absorbed all of the approximately 1,000 PSP employees. Lawrie will continue to report directly to John M. Thompson, senior vice president and group executive for IBM Software.

According to sources with access to an IBM internal memo, the Network Computing Software Division "integrates the expertise and solutions from the Java team and the Networking Software and Personal Software Products organizations." The division will focus on networking and security offerings; Java technologies, including the JavaOS and Java Virtual Machine; Java customer and partner relationships; and OS/2, the memo said.

Under the reorganization, a number of PSP, networking, and Software Solutions executives were reassigned to report to Lawrie in his new position. Donn Atkins, former vice president of PSP marketing, is now general manager of the OS/2 business unit. Art Olbert, former vice president of business development for PSP, was made vice president of business development for the new division. Patricia Sultz, former vice president of Internet software for the Software Solutions division, was made general manager of the Java software business unit. Two other PSPers -- Jeff Smith, director of OS/2 business line management; and John Soyring, director of technical projects -- also now report directly to Atkins.

Brought to you by  
Kevin Linfield

Toronto OS/2 User Group Member  
IBM e-business and Software News Alert





# News from the 'Net



## **New IBM e-business Offerings: Solutions for ISPs, Web Site Tools, and Internet Content Management**

A wide range of new IBM products, services, and solutions announced at Internet World are designed to help customers make the move to e-business. The new offerings include solutions for Internet Service Providers, tools for building and enhancing Web sites, and services for managing content on the Internet.

<http://www.ibm.com/news/1997/12/ls971210.html>

## **Connectivity Kit Integrates Lotus Domino and NetObjects Fusion**

Two initiatives from Lotus and NetObjects, Inc. will enhance Web site creation. The Lotus Domino and NetObjects Fusion Connector\*\* integrates the Domino\*\* Web application server with Netobjects Fusion\*\* site-building software. Also, for a limited time, Lotus is bundling NetObjects Fusion and the Lotus Domino and NetObjects Fusion Connector into Lotus Notes Designer\*\* for Domino.

<http://www.software.ibm.com/news/2eaa.html>

## **IBM Web Traffic Express for Multiplatforms Offers Faster Web Document Retrieval and Content Filter**

Web Traffic Express\* Version 1.0, IBM's new caching proxy server, enables administrators and Internet service providers to manipulate caching details for faster Web document retrieval and low network bandwidth use. It also filters Web content to prevent forwarding of certain information.

<http://www.ics.raleigh.ibm.com/WebTrafficExpress/>

## **Java 1.1.4 for OS/2 Shows Why OS/2 Leads in Java Performance on Intel Platforms**

By delivering its fifth Java Virtual Machine (JVM) for OS/2\*, IBM further establishes OS/2 as a solid foundation for e-business. Java\*\* applications run 7 percent faster on OS/2 Warp\* 4 than on

Windows NT\*\*. Download Java 1.1.4 for OS/2 Warp from the IBM Software Choice\* catalog of products available for the OS/2 family and for WorkSpace On-Demand\*.

<http://www.ibm.com/java/news/news30.html>

## **Second Web-Based Java Course, "Building a Java Applet"**

IBM's second Web-based Java development course, "Building a Java Applet", teaches how to develop a multithreaded graphical applet using the Java Development Kit\*\*. The course uses the IBM Bamba\* audio streaming plug-in.

<http://www.ibm.com/java/education/buildapplet/>

## **Version 2 of IBM's Free Java Introduction Course Runs Cross-Platform, and Can Suspend and Resume**

Version 2 of IBM's Web-based Introduction to Java course uses the Java Bamba plug-in, enabling the course to run cross-platform. You can download Version 2 from the Web in addition to accessing it online. Also, you can now interrupt your progress and resume where you left off.

<http://www.ibm.com/java/education/intro/courseoptions.htm>

## **WebWeek: IBM Bets Big on Java**

In the 24 November issue of WebWeek, the article titled "From Mainframe to NC, IBM Bets Big on Java" discusses all the reasons and ways that IBM is committing to Java.

<http://www.webweek.com/1997/11/24/news/19971124-mainframe.html>

## **VisualAge e-business Extends Core Business Applications to the Web**

IBM VisualAge e-business\* extends enterprise applications and data to the Web, enabling companies to become e-businesses. The VisualAge e-business package of tools incorporates VisualAge for Java, NetObjects Fusion, Lotus BeanMachine\*\*, Lotus Domino Go\*\* Webserver, DB2\* Universal Database

Developer's Edition, VisualAge WebRunner\*, and Netscape Navigator\*\*.

<http://www.software.ibm.com/ad/news/pr971202.html>

## **Beans, Widgets, Tools, Multimedia CDs for VisualAge for Java**

Many beans, widgets, tools, and multimedia CDs that were written with, and/or tested to run, under VisualAge for Java are accessible from

<http://www.software.ibm.com/ad/vajava/vatools1.htm>

## **Eddie Bauer Selects IBM to Build Java Solution Linking Retail and Catalog Sales with the Net**

Eddie Bauer, Inc. has chosen IBM as its partner in creating a Java-based prototype to tie its three commerce channels -- retail stores, catalog, and interactive media -- into one integrated system. The system will process all customer contacts consistently, link to complete product information, and provide "virtual" company-wide perpetual inventory.

<http://www.ibm.com/java/news/news34.html>

## **Ralston Purina Uses VisualAge for Java to Run Business-Critical Manufacturing Lines**

A Java application, Packview, enables the scheduling of Ralston Purina's dog and cat food packaging lines. A true example of how Java runs critical business operations today, Packview was developed using IBM VisualAge Java for OS/2. It relies on MQSeries messaging software for communications and DB2 database software for storing each plant's packaging data.

<http://www.software.ibm.com/news/2e9a.html>

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## News from the 'Net Continued from page 4 ...

### Utility Converts from IBM Communications Manager/2 to eNetwork Personal Communications

A free migration utility converts Communications Manager/2\* (CM/2\*) configuration files to IBM eNetwork Personal Communications\* (PCOMM) files.

<http://www.networking.ibm.com/cms/cm2topcomm.html>

### IBM Ships WorkSpace On-Demand Networking Software

WorkSpace On-Demand, IBM's Intel-based operating system for network computing and managed PCs, is now available. WorkSpace On-Demand is 100% Pure Java-compliant and will help customers move from client/server to network computing. It has two components: a client operating environment and server-side utilities to manage that environment.

<http://www.software.ibm.com/news/2e46.html>

### IBM, United Parcel Service to Distribute HomePage Creator CD to Small Businesses

IBM and United Parcel Service (UPS) will distribute a special UPS / IBM HomePage Creator\* CD to more than 6,000 of UPS' small business customers. This pilot program will give these customers all the services they need, including shipping, to create their e-commerce Web sites.

<http://www.software.ibm.com/news/2f02.html>

### NFL, NBC Sports, IBM are Producing Super Bowl Web Site and Live, Multilingual Cybercast

The official Super Bowl XXXII Web site, produced jointly by the National Football League, NBC Sports, and IBM, is now up, and will culminate with a live, multilingual "cybercast" of Super Bowl XXXII on 25 January. The site also showcases IBM's Net.Commerce\* software, which lets fans purchase Super Bowl merchandise via the Internet.

<http://www.software.ibm.com/news/2f12.html>

### IBM's Technology for the 1998 Winter Olympic Games Shows Up in Businesses Worldwide

IBM is the single information technology provider to the Olympic Games through the year 2000. A series of Web pages gives details about IBM's technology at the 1998 Winter Olympics in Nagano, Japan, and presents case studies of businesses worldwide that use many of the same IBM systems.

[http://www.olympic.ibm.com/building/ns\\_sdx\\_e.htm](http://www.olympic.ibm.com/building/ns_sdx_e.htm)

### NetObjects TeamFusion Earns Broad Acceptance among Internet and Intranet Site Builders

NetObjects TeamFusion\*\* is the first Web site-building solution to recognize the roles that different people play in developing, managing, and updating business Web sites. Several beta-testing companies have validated TeamFusion's unique approach to team authoring and Web publishing.

<http://www.netobjects.com/products/html/teamfusion.html>

### IBM 56K PC Card Modem Has Cellular Capabilities

The IBM 56K PC Card Modem/Cellular Capable\* offers data, fax, and voice functions. The modem comes with an advanced suite of software, and is compatible with most popular cellular phones.

<http://www.software.ibm.com/news/2e56.html>

### Two IBM Experts Explain the Merits of Java, How NetRexx Complements It, and How Business Uses It

In the December issue of OS/2\* Warp FM, two IBM software experts discuss why Java performs well, why it is so powerful, how to assess whether an application is or is not a good candidate for Java, how NetRexx complements Java, and how real business problems were solved with Java.

<http://www.software.ibm.com/os/warp/warpfm/current/#experts>

### New Support Site for Web Developers Offers Many Resources for Building Web Sites with Java

Java now plays an integral part in the development of Web sites, interfaces, and applications. IBM's new support site for building Web sites with Java offers many resources for Java developers.

<http://www.ibm.com/java/feature-websitedev.html>

### IBM, Planetworks Offer Seamless Development between VisualAge Generator and Interspace Tools

Enhancements to IBM's VisualAge Generator\* V3.0 object-oriented programming environment and Planetworks' Interspace\*\* V5.0 application architecture and development framework enable seamless application development between the two products, and give PowerBuilder\*\* and Visual Basic\*\*\* programmers access to VisualAge\* server applications from their desktops.

<http://www.software.ibm.com/news/2f06.html>

### VisualAge BeanExtender for Java Version 2.0

Making JavaBeans development even better for e-business, Version 2.0 of IBM's VisualAge BeanExtender\* technology includes improved network deployment and new Dip Wizard tools and samples.

<http://www.software.ibm.com/javabeans/beanextender/>

### Canadian Imperial Bank Transforms I/T Architecture to Java and Network Computing

With IBM's help, The Canadian Imperial Bank of Commerce is transforming its computer architecture to a Java and

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## News from the 'Net

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network computing base, and has already realized a competitive advantage.

<http://www.software.ibm.com/os/warp/warpfm/curent/#cibc>

### LAN Times Says Lotus Notes, Domino Beat Microsoft Exchange 5.5

LAN Times recently proclaimed that Lotus provides the best groupware platform, Notes\*\* and Domino. LAN Times said "Notes and Domino 4.6 will help your company communicate and cooperate better." The complete review is at

<http://www.lantimes.com/lantimes/97/97nov/711a019a.html>

Microsoft did not fare as well -- their review is titled "Exchange\*\* Update Doesn't Deliver".

<http://www.lantimes.com/lantimes/97/97nov/711b022a.html>

### IBM e-business and Software News Alert is on the Web, with hotlinks.

<http://www.software.ibm.com/news-alert/>

### Other IBM Information Available by Subscription

o IBM Developer's Domain e-News, a semi-monthly newsletter about IBM's application development, object technology, and e-business solutions.

<http://www.software.ibm.com/devdomain-news/>

o IBM Java Update, a monthly newsletter about Java and IBM's Java initiatives.

<http://www.ibm.com/java/>

o OS/2 Warp FM, a weekly news flash plus a monthly electronic magazine.

<http://www.software.ibm.com/warpfm/>

o You can have the latest news highlights from IBM Software sent directly to your computer screen by the PointCast "Webcasting" program. The IBM Software channel on PointCast is updated several times a week with the six most important

news items from IBM Software. For details and to download the required software, go to

<http://www.software.ibm.com/general/pcn/>

o With IBM's iSource electronic information service, you can receive electronic updates customized to your specific areas of interest in IBM's products, services, and solutions. You can choose to

- receive IBM Announcement Letters and Redbook summaries
- receive the weekly "Focusing on You" news digest
- add your name to IBM's special promotions mailing list

<http://www.ibm.com/iSource>

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## iSource

Free, Customized IBM News Via e-mail -- Pass It Along!!!

November 13, 1997

Have you heard of IBM's iSource? It's an e-mail service that's available at absolutely no cost to your customers... and now you can order free credit-card sized IBM business cards to help spread the word.

Why do you want to let your customers know about iSource? Because this new service saves you time by keeping your customers up-to-date on only the IBM products, services, and solutions of specific interest to them. Subscribers can receive one or all of the following customized types of information via iSource:

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- \* Press Releases, and
- \* Special promotions

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<http://www.ibm.com/isource>

## Top Performing Java 1.1.4 for OS/2 Available on the Web

November 25, 1997

OS/2 customers who are moving to network computing and want to improve the performance of Java 1.1 for OS/2 can now download the latest release of Java 1.1 for OS/2, using Software Choice. This new version delivers a fully compliant implementation of Sun Microsystems' Java 1.1.4 and improves performance up to 1.5 times over the previous Java 1.1.1 version.

The OS/2 release leads performance on Intel platforms. CaffeineMark 3.0 benchmark results show Java applications run 7% faster on OS/2 Warp 4 than on Windows NT with Internet Explorer 4.0.

Java 1.1 for OS/2 is available for WorkSpace On-Demand, OS/2 Warp 4, OS/2 Warp Server, and OS/2 Warp Server SMP. Software Choice can be found at

<http://www.software.ibm.com/os/warp/swchoice/>

## IBM Introduces NEW WEB-BASED JAVA CLASS

December 10, 1997

IBM(TM) has just added a new web-based Java class to its growing portfolio of Java(TM) courses.

Learn to build a Java applet online, anytime, through IBM's newest Web-based tutorial. The course, which ranges from 3 to 4 hours in length, helps you learn the Java language and its tools, and provides the steps and tools to build a graphical applet using the Java Kit. You will also explore the necessary syntax and work with the Java class libraries.

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**IBM Introduces  
New Web-Based  
JAVA Class**

*Continued from page 6 ...*

The class, priced at (U.S.) \$25, is available immediately at:

<http://www.ibm.com/java>.

Its design incorporates IBM's Bamba(TM) audio streaming technology to provide a personal learning experience with integrated graphics, audio, and text over the World Wide Web.

The response to the first Internet-based class, "Introduction to Java," introduced in May was tremendous. More than 75,000 Web visitors have "test driven" this technology delivery with us, giving IBM high marks in content, technology, and ease-of-use. Our experience with Web-based training confirmed that it's an excellent way to deliver education, especially for Java, which is in such great demand.

The "Building a Java Applet" course expands IBM's growing Java curriculum. In addition to the Internet-based courses "Building a Java Applet" and "Introduction to Java," IBM provides a rich set of classroom-based offerings with hands-on labs. These include "Object-Oriented Programming with Java" (course code N2032), "Java Programming" (N1980), "Advanced Java Programming" (N2036), and "VisualAge(TM) for Java"(N2034). In 1998, at least ten new classroom offerings will be released, including "Java Security," "Designing and Using Java Beans," and "Java Mentored Workshop". Internet-based offerings for 1998 will include "Java Beans," "Java Foundation Classes," "Java Performance," and "RMI/IIOP".



**January 1998 Toronto OS/2 Shareware Disk**

Compiled by George Sikou, [chairman@to2.org](mailto:chairman@to2.org)  
Standard Disclaimers Apply

- BTALK201.ZIP** BackTalk 2.0: FREE Speech System for OS/2  
Included Clients: E-Mail Notifier, Speaking Clock,  
Speaking IRC, Speaking Timer.
- GETTZ.ZIP** GeTZ 1.0: FREE INI File TimeZone from Environment Parses  
standard TZ environment string; Stores current timezone in any  
OS/2 INI file with caller specified Application/KeyName
- LPT182.ZIP** LPT: parallel port file-transfer utility. BETA
- SANE661.ZIP** SANE 0-66: Command-line support for a variety of SCSI scanners
- VDIAL216.ZIP** VoiceDialer/2: Voice modem speakerphone program Supports  
Rockwell, USRobotics and Cirrus Logic voice modems.

Visit

<http://www.ibm.com/java/education/courses.html>

for more information about IBM's currently available Java courses, conferences and publications. Customer education information is also available at:

<http://www.training.ibm.com/ibmedu>

or by calling 1-800-IBM-TEACH in the United States. Customers outside the U.S and Canada may call 001.770.858.5902.

**IBM Developer's Domain  
e-News, Check It Out!**

December 9, 1997

Check out the latest issue of the IBM Developer's Domain e-News, your source

for the latest news about IBM Application development and e-business -- including JavaBeans, VisualAge for Java and the entire VisualAge family.

To receive our biweekly newsletter, simply point your web browser to the IBM Developer's Domain at

<http://www.software.ibm.com/ad/devdomain/>

and sign up right from the home page!

In the latest issue (December 9, 1997), we've highlighted the following items:

VisualAge e-business now available! at

<http://www.software.ibm.com/ad/vaebus/>

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**IBM Developer's Domain  
e-News, Check It Out!**  
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What's the World Coming To? Fall Internet World! at

<http://events.internet.com/fall97/>

Industry leaders validate VisualAge e-business at

<http://www.software.ibm.com/news/2e72.html>

Dec 11 Chat: Developing e-business solutions at

<http://javausers.ihost.com/chat/>

VisualAge Solutions Group now open for business at

<http://www.software.ibm.com/ad/smalltalk/solutions/vsg.html>

The COMMON Labs are here! The COMMON Labs are here! at

<http://www.software.ibm.com/ad/as400/vajava/labs.html>

A special VisualAge for Java\*\* offer for AS/400 users at

<http://www.software.ibm.com/ad/as400/vajava/vajas400promo.html>

New Beans and Widgets support VisualAge for Java at

<http://www.software.ibm.com/ad/vajava/vatools1.htm>

JavaPro reviews VisualAge for Java and other Java IDE's at

<http://www.java-pro.com/MDJP1197/mdfrme.htm>

**Internet Search  
Engine Analysis**

December 2, 1997

The current issue of INTERNET World has reviewed the major search engines and has decided AltaVista

<http://altavista.digital.com>

has the most comprehensive search engine today.

Here are a few details to consider, as per the article, when deciding which search engine is best suited to your needs:

**1.** One point to consider is the size of the indexed database used by the search engine. The more entries, the more comprehensive the result of the search:

- AltaVista has approximately 100 million entries
- Infoseek has approximately 60 million entries
- HotBot has approximately 54 million entries
- Excite has approximately 50 million entries
- Lycos has approximately 30 million entries

**2.** Another point to consider is searching within the searched results, to refine the results:

- the above engines provide this facility, except HotBot

3. Another important point to consider is frequency of updating the index database and only one engine updates consistently. No other search engine, other than HotBot, updates within a 2 week period.

4. Another important point is ease-of-use and no other search engine is as easy to use as HotBot <http://hotbot.com> with its list of selection criteria. There is no need to understand Boolean terminology.

**From the Warped Mind  
of the Editor**

Joe Johnson, Editor-in-Chief

Well, here we are again. Not sure if I want to keep this up. No articles flowing in. No time to search the 'net. Lack of help from the User Group. Some help would be appreciated. Find me articles on OS/2 related items. Find me interesting Web sites. Review an OS/2 product. Hope this year is a good one. Hope your year is a good one too! Hope your holidays were good. Enjoy the issue!

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**Warp Zone**

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