

The Java(TM) 2 Platform SHIPS!

...and the Java(TM) Platform Is Complete

by Janice J. Heiss

"It's stable, it's secure, its performance is up, it's interoperable, and it's compatible with past JDKs and all major operating systems," says Sun's Gina Centoni, director of product marketing, Java platform.

Centoni is describing Sun's new JavaTM Development Kit(TM), code-named "JDK(TM) 1.2," which will be officially launched in New York on December 8. The good news for enterprise developers is that this is the first version of the JDK designed to serve virtually all the needs of business computing, and it's available for download now on this web site:

<http://java.sun.com/products/jdk/1.2>

Already hundreds of enterprise partners and customers are announcing release plans incorporating the Java(TM) 2 platform because it delivers five fundamental business advantages:

- ☞ robust cross-platform and backwards compatibility
- ☞ easier development and deployment of distributed applications
- ☞ seamless enterprise systems integration
- ☞ faster runtime performance
- ☞ a new, improved, more flexible security model

At the Core

The Java(TM) 2 platform's rich class libraries and basic tools provide enterprise developers with the elements needed to build portable, distributed applications for any program written in the Java programming language, whether running on a smart card, consumer device, stand-alone PC, or a network computer. Fifteen core



class libraries now comprise the core of all Java technology: applet, awt, beans, io, lang, math, net, rmi, security, sql, text, util, accessibility, swing, and corba.

"This is the base functionality that absolutely must be in the core Java(TM) 2 platform, because everyone needs this stuff, regardless of the environment they're building on," says Larry Podmolik, CTO of Strategic Technology Resources Inc., an object technology consulting firm and the Java(TM) 2 platform Beta site in Chicago, Illinois. "We don't expect the the Java(TM) 2 platform to grow by leaps and bounds anymore. Our developers get a breather, which lets us focus on implementing business logic, not remediating existing applications."

Java Foundation Classes Complete

The Java(TM) 2 platform offers the JDK's first complete implementation of the Java Foundation Classes (JFC), a robust set of APIs and pre-built components that

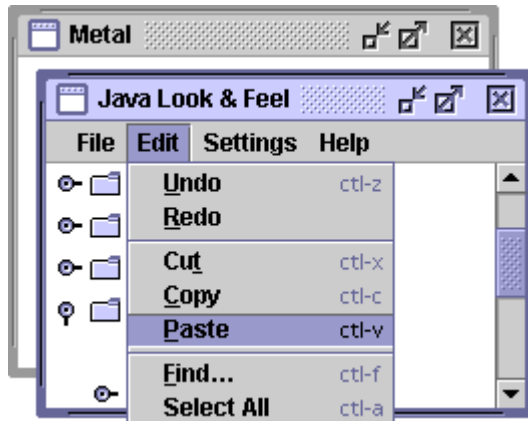
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encapsulate the most common application development requirements, enabling programmers to jump-start new software projects.



With this latest iteration of the JFC, applications developed in the Java programming language gain printing capabilities, allowing developers to use Java technology for reporting systems, business analysis, intelligence applications, and other output-intensive requirements.

The Java Extensions Framework

The Java(TM) 2 platform enables developers to more easily deploy enterprise applications and extend the Java platform. A key to this is the Java(TM) 2 platform's new extensible architecture, dubbed by Sun as the "Java Extensions Framework." This framework formalizes the way in which new Java technologies, such as Enterprise JavaBeans(TM) (Sun's server-side business component model) can be plugged into the core Java(TM) 2 platform.

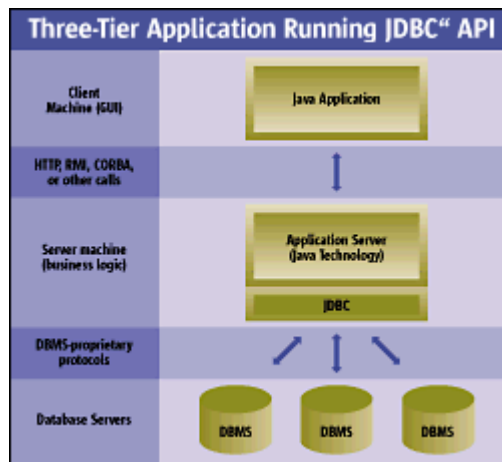
Once connected, Java extensions are seen by Java virtual machines as part and parcel of the core Java platform. This tightly integrated, pluggable architecture allows IT and third-party developers to build extremely lightweight applications that aren't forced to carry mountains of enterprise add-on options. In addition, the Java(TM) 2 platform offers a pluggable virtual machine architecture which, for the first time, allows IT shops and users alike

to update their Java Virtual Machine as easily as they update a browser plug-in.

Greater Interoperability

The Java(TM) 2 platform offers several major new technology wins for IT departments requiring legacy data and application integration. CORBA support, which is new in 1.2, enables Java applications to interoperate with existing systems in a distributed environment. This means programmers using CORBA can build integrated systems that seamlessly leverage services over the Internet and across application boundaries.

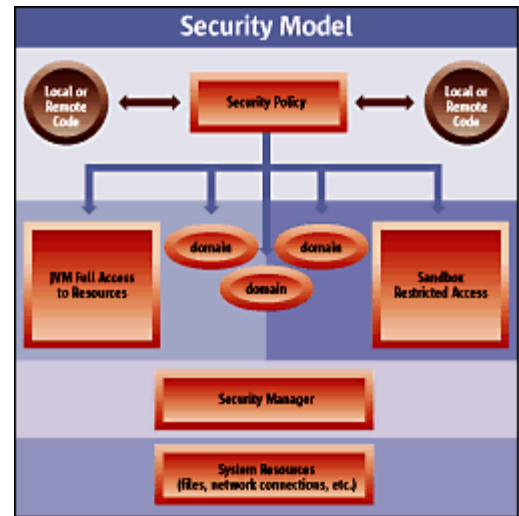
The Java database connection software, JDBC API, allows developers to write applications for the Java platform that support flexible and powerful access to existing corporate data. And Java Native Interface (JNI) calls



libraries written in C, C++, assembly, and other languages, enabling applications written for the Java platform to access functions written for the native platform.

Reassuring and Flexible Security

The Java(TM) 2 platform introduces the new Java security model, which does away with the notion of the "sandbox" and replaces it with an enterprise-class tiered security system.



Where the original Java sandbox provided automatic but completely inflexible security, the new Java security model is customizable and dynamic. With this enhanced model, IT managers and developers are provided with complete facilities to assign policies, permissions, and access control across all Java application boundaries, including users, groups, program and operating systems services, and even object and components. Users report that being able to manage security attributes down to the object level has obvious benefits for IT shops charging head-first into electronic commerce and data interchange.

Enhanced Performance

As if all this weren't enough, perhaps the biggest news with the Java(TM) 2 platform is the introduction of the Java Performance Model, a collection of enhancements to the central Java runtime architecture that give applications written in the Java programming language a real boost. "The Java(TM) 2 platform is significantly faster," says Larry Abrahams, director of engineering for the Java platform at Sun. "It's considerably faster than 1.1. We've done a lot of work to optimize performance, and we continue to tune, making both client-side and server-side performance enhancements. The beauty of the new pluggable VM architecture is that, as faster VMs are developed, users can just plug them in."

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Browser Support for the Enterprise

Also new with the release of the Java(TM) 2 platform is the inclusion of Java Plug-in (in the Java® Runtime Environment, which is the runtime part of the formerly code-named "JDK"). Java Plug-in assures enterprise developers they can expect consistent, reliable, full-featured, Java Compatible™ runtime technology as they deploy applets across all major browsers. Java Plug-in fully supports all the new features of the Java(TM) 2 platform.

Launch to Coincide with the Java Business Expo(SM) Event

The Java(TM) 2 platform brings with it the first end-to-end, feature-complete manifestation of Java computing -- "Write Once, Run Anywhere(TM)." The formal launch will take place the evening of December 8 at the Equitable Center in New York City. Throughout the week, corporate developers and Sun partners will demonstrate their products built with the Java(TM) 2 platform at the Java Business Expo(SM) Event, which coincided with the Java(TM) 2 platform launch, December 7-10 at the Jacob Javits Convention Center.

During the expo, visit this web site

<http://java.sun.com/features/1998/12/jdk.ship.html>

for complete coverage of both the Java(TM) 2 platform launch and the Java Business Expo activities.



IBM OS/2 Warp Developer Kit, Java(TM) Edition, Version 1.1.7

Java has evolved at a rapid pace, fueled by the acceptance of leading technology companies and the emergence of hot new Java start-ups. The 100% Pure Java(TM) standard can provide businesses with a stable, secure, and open platform that allows their applications to reap the rewards of Java's write once, run everywhere capability.

Sun Microsystems, Inc. has announced that only Java 1.1.6 and later versions are Year 2000 ready. IBM previously released the following versions that are not Year 2000 ready:

- ✗ Java 1.0.1 for OS/2, included with OS/2 Warp 4
- ✗ Java 1.0.2 for OS/2, previously available in the Software Choice catalog and previously provided with Netscape Navigator 2.02
- ✗ Java 1.1.1 for OS/2, previously available in the Software Choice catalog
- ✗ Java 1.1.4 for OS/2, previously available in the Software Choice catalog

IBM OS/2 Warp Developer Kit, Java(TM) Edition, Version 1.1.7 (Developer Kit) replaces all previous versions of OS/2 Warp Developer's Kit for Java. For users not currently running OS/2 Warp Developer's Kit for Java 1.1.6, the Developer Kit is an upgrade for Year 2000 readiness for Java 1.1.1 and 1.1.4 for OS/2.

The Developer Kit provides:

- ✓ Separate, downloadable files for:
 - Two Runtime packages
 - One Development package
- ✓ Eurocurrency support
- ✓ Client installation support for WorkSpace On-Demand
- ✓ Improved stability through code enhancements
- ✓ Effective security with signed applets
- ✓ Reusable components using JavaBeans
- ✓ Ability to run Java 1.1x applets

- ✓ High-performance just-in-time (JIT) compiler
- ✓ Networking enhancements
- ✓ Support for simultaneous display of Unicode characters
- ✓ Powerful debugging capability with the Interactive Code Analysis Tool (ICAT) source debugger
- ✓ Distributed objects through remote method invocation (RMI)
- ✓ Industrial-strength Java database connectivity (JDBC)

Use the Developer Kit to build 100% Pure Java applications and applets that run on OS/2, WorkSpace On-Demand, and other Java-compatible platforms.

Java 2 -- Good News for Java Developers *IBM Perspective*

NEW YORK, NY, December 8, 1998 . . .

Today, Sun Microsystems formally unveiled the newest release of the Java platform, Java 2. The arrival of Java 2, formerly the Java Development Kit (JDK) 1.2, is good news for Java developers, who have been eagerly awaiting the new enhancements promised by Sun. Java 2 is also good news for Java, which continues to transform e-businesses by enabling enterprises to securely communicate, collaborate, and share data with their customers, suppliers, partners, and employees using a truly portable technology.

As a key supporter of the Java platform, we congratulate Sun on the release of Java 2 and we look forward to the new capabilities that the technology will bring to the open programming model. "IBM is committed to Java 2 on all platforms, and we will continue to work with Sun and the Java licensees to enhance Java's

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Java 2 -- Good News for
Java Developers
IBM Perspective
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enterprise-level function, performance, and support," said Patricia Suelzt, IBM general manager, Java Software. "The rapid advancement of Java technology demonstrates how important a fast, secure, and portable computing platform is to our industry and customers."

***Smoothing the migration
to Java 2***

Now that Java 2 is available, when and how to migrate to the new release becomes an important consideration for enterprise developers. For our part, IBM will work with and support customers as they migrate to Java 2 on a schedule consistent with their requirements and migration plans. How will we smooth the transition?

We will begin releasing Java 2 ports for the AIX, OS/2, OS/390, OS/400, and WIN32 platforms in line with platform requirements. An alpha release for AIX will be available in the next 30 to 60 days that will enable early adopters to gain experience working with Java 2 in advance of the planned IBM-enhanced versions of the JDK.

Our software products will migrate to Java 2 to satisfy the needs of enterprise customers as they migrate. In addition, IBM software will take advantage of Java 2 features, such as enhanced security, Swing/Java 2D, enhanced JNI, enhanced JDBC support, and CORBA support with RMI over IIOP.

We will continue to foster innovations on our platforms, such as JIT technology and native compilers.

We will continue to work with Sun to evolve 1.2.x releases to ensure that the right level of performance, scalability, robustness, and stability exists so customers can confidently migrate production applications from 1.1.x releases.

OS/2 WARP

***Our commitment to JDK
1.1.x continues***

Throughout 1999 and the Year 2000, IBM will continue to support our customers and independent software vendors (ISVs) who are using JDK 1.1.x releases as they migrate to the latest JDK technology. IBM has ported and supports JDK 1.1.x Java technology on key IBM operating systems for e-business, and has collaborated with Sun on JavaOS for Business for enterprise customers. We will continue to put our Java experience and expertise to work for Java developers and e-businesses during this period of migration.

Shockwave/2 ???

WarpCast

Source: Bart van Leeuwen
(bart@netage.nl)

Hi there,

I just downloaded the Macromedia Shockwave Flash file format reference and the Comm/2 SDK and realized that it can't be that difficult to port the plugin.

Now I'm looking for a few developers with some spare time to help me with the port.

Since the SDK is VA C++ v3.0 ready this seems the platform of choice I'm looking for people with experience in:

Audio/Graphic compression and
decoding
Gpi experience

I Will make a web page available as soon as this project starts.

Also if there are already people taking effort on this please let me know !!

Give me a mail if you're interested in helping not if you're interested in the result, that is long from here ;-)

Brought to you by
George Sikou
yurgen@globalserve.net
TO/2 User's Group Member

Latest Update
(2 Dec 98) on
Opera/2 from
Project Magic

WarpCast

Source: Doug Tan
(dougtan@softhome.net)

http://www.operasoftware.com/alt_os.html

OS/2

Well, I actually get tired of telling you all that "more info is coming soon". I haven't had any 'real stuff' update in ages, other than the problems with the resource files are still the same they were back in March this year.

I really hope that we will find a solution to this soon, regardless of how it will look and feel.

So in essence, nothing new on the OS/2 side, but if you know of someone who might be interested in helping out -- preferably someone in (Northern) Europe -- please let me know at magic@operasoftware.com.

- Helmar Rudolph

It appears to me that progress on Opera/2 is very slow and the chances of Opera/2 becoming an actual reality is still far from certain. I know there are many talented OS/2 programmers out there and many more OS/2 users who would just love to see Opera/2 hit the market. So please, if anyone has programming skills to volunteer or could help in any way, do mail Opera at the given address.

Brought to you by
George Sikou
yurgen@globalserve.net
TO/2 User's Group Member





News from the 'Net



IBM e-business and Software News Alert

IBM® e-business and Software News Alert is also on the Web, with URL hotlinks to all news items.

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

IBM Releases Source Code for Jikes Compiler to Speed Development of Java Applications

IBM is making available the source code for its Jikes compiler, which helps developers to speedily create Java applications. Now, Jikes users can collaborate with IBM to improve the compiler. Jikes delivers superior Java byte-code compiler performance, while ensuring that applications run consistently across different computer systems.

<http://www.ibm.com/software/news/n/alme42xp65/>

IBM VisualAge for Java Wins Two New Awards: "Best Development Tool" and "Star Product"

IBM VisualAge for Java has won two more top industry honors. PC Magazine (UK) named VisualAge for Java the "Best Development Tool" at its 1998 Technical Innovation Awards ceremony. Application Development Advisor (UK) named VisualAge for Java the "Star Product" over nine other Java tools.

<http://www.ibm.com/software/ad/vajava/awards-nov98.html>

IBM Perspective: Major Enhancements in Java 2 are Good News for Java Developers

With 30 major enhancements, Java 2, the newest release of Sun Microsystems' Java platform, is good news for Java, which continues to transform e-businesses with a truly portable technology. IBM will release Java ports for the AIX®, OS/2®, OS/390, OS/400®, and WIN32® platforms, and IBM software will exploit Java 2 features such as enhanced security, Swing/Java 2D,

enhanced JNI, enhanced JDBC support, and CORBA support.

<http://www.ibm.com/java/news/java2.html>

JavaOS for Business Version 2.1, the "Fastest Java Virtual Machine" in Independent Benchmark

The JavaOS® for Business Version 2.1 operating system runs a wide variety of Java applications in a centrally managed, network computing environment. Version 2.1 features a revised design, and performance improvements that make JavaOS "the overall fastest JVM of the JVMs tested" in a recent KeyLabs benchmark.

<http://www.ibm.com/java/news/news173.html>

DOWNLOAD: XML Parser for Java, Version 1.1.9

Written in 100% Pure Java®, XML Parser for Java is a validating XML parser containing classes and methods for parsing, generating, manipulating, and validating XML documents. Version 1.1.9 has been tested under Linux and uses less memory for SAX. The alphaWorks site offers a commercial license for XML Parser for Java at no cost.

<http://www.ibm.com/java/news/news168.html>

DOWNLOAD: Updated XML Tools, DataCraft and XMLTreeDiff

Two updated XML tools make XML more accessible. DataCraft is an application generation tool for RDF/XML applications in the context of Web commerce applications. It is an excellent tool for Web database application generation using XML. XMLTreeDiff is a set of Java beans for performing fast differentiation and update of DOM structures.

<http://www.ibm.com/java/news/news170.html>

DOWNLOAD: Jikes Parser Generator, and Enhancements in Jikes for Linux and in JAX

The Jikes Parser Generator accepts as input an annotated description for a language grammar, and produces text files for inclusion in a parser for that language. Two new versions of Jikes for Linux, and enhancements to the JAX Java application packaging tool, are also available.

<http://www.ibm.com/java/news/news171.html>

Online Videos Show OS/2 Warp for e-business in Action

See OS/2 Warp for e-business in action, in a series of demonstration video clips updated weekly. The clips are available in Bamba® and RealAudio® formats.

<http://www.ibm.com/software/os/warp/products/aurora/videos/>

Symantec Expands Virus Protection Education, and Takes On Customers of IBM Anti-Virus Software

Symantec Corp. is expanding its education about the need to install computer anti-virus software that is updated monthly. Symantec has licensed IBM's immune system technology and patents. In turn, IBM has assigned its anti-virus customers to Symantec, and encourages their transition to Symantec's Norton Anti-Virus® software to get the monthly update files that IBM no longer provides.

<http://www.ibm.com/software/news/n/bfie43et4q/>



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News from the 'Net

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DOWNLOAD: VisualAge for Java Enterprise and Professional Updates

Customers of IBM VisualAge* for Java**, Enterprise Edition Version 2.0 who have enterprise-level access to VisualAge Developer Domain can download two VisualAge for Java updates. The Enterprise Update includes extensive support for easy creation of Enterprise JavaBeans** and direct deployment to a WebSphere application server.

<http://www7.software.ibm.com/vad.nsf/data/document2825/>

The Professional Update includes a WebSphere test environment.

<http://www7.software.ibm.com/vad.nsf/data/document2750/>

CNET Builder.Com Selects VisualAge for Java as "Best Java IDE" of 1998

CNET Builder.Com found that "it was a relatively easy choice" to select IBM VisualAge for Java as the "Best Java IDE" for 1998. Builder.com says VisualAge for Java 2.0 "improves productivity for Java programmers in a number of ways, none of which the other Java IDEs even approach. ... VisualAge Java 2.0 further demonstrates IBM's commitment to Java developers."

<http://www.builder.com/Business/1998Awards/ss06.html>

(uppercase required as shown)

IBM VisualAge C++ Professional 4.0 for OS/2 and Windows NT Boosts Application Development

The new VisualAge C++ Professional for OS/2* and Windows NT**, Version 4.0, uses an innovative technology that gives programmers unmatched productivity in developing C++ applications. It also offers the VisualAge "Construction from Parts" programming tools for creating applications based on the Open Class* Library components.

http://www.ibm.com/software/ad/visualage_c++/factv4_intel.html

Aberdeen Group Report: "The Extraordinary Potential of XML"

A recent Aberdeen Group report states that the use of XML for application integration is likely to reduce the costs of establishing system-to-system interoperability within an enterprise, and to forge intercompany integration. Aberdeen Group stresses that application interoperability is not easy, and XML affords an immediate solution.

<http://www.ibm.com/software/webrowsers/appserv/doc/aberdeen/12981072.htm>

DOWNLOAD: LotusXSL, an XSL Processor Written in Java

LotusXSL implements an XSL processor in Java. XSL formats and transforms XML, either at the browser or on the server. With XSL, developers can transform data semantics of an XML instance into a presentation language such as HTML.

<http://www.ibm.com/java/news/news187.html>

DOWNLOAD: Java Media Framework Beans Let Viewers See and Hear Real Multimedia

Java Media Framework Beans let viewers see and hear real multimedia. The JMFPlayer Bean lets viewers dynamically change the video or audio media file at run time. The JMF MultiPlayer Bean gives viewers control over multiple media clips.

<http://www.ibm.com/java/news/news200.html>

DOWNLOAD: XML Enabler, XML Compare and Merge Tool

The XML Enabler makes XML real by allowing any user of any browser to view and use XML data. Developers can send

requests to a servlet and, as the servlet responds, it formats the data using different XSL stylesheets. Compare and Merge Tool for XML, a Java program, can reconcile changes that a single user has made to an XML document.

<http://www.ibm.com/java/news/news204.html>

Coming Soon

February 11, 1999 - To be announced.

March 11, 1999 - To be announced.

Future Topics - Give us some ideas!!

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

PMfax [FaxWorks OS/2]
SOHO LAN with
Windows and NT Clients

WarpCast

Source: Mark Ahlstrom
(info@kellergroup.com)

White Bear Lake, Minnesota -- December 15, 1998

Keller Group, developer of the PMfax and FaxWorks OS/2 products, now has a special LAN version which supports Windows, NT and OS/2 workstations for small SOHO LAN situations. This provides LAN fax sharing at a very attractive price of just \$299.

The new product allows "shared mode" use of the fax hardware by up to five other workstations, and the workstations can be any mixture of Windows, NT or OS/2 machines. The fax server can be any OS/2 machine on the LAN. This is ideal for SOHO configurations where privacy, routing and other advanced features of the

This Month's Agenda

January 14, 1999 -
To be announced

January 28, 1999 -
Programmers SIG -
To be announced



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PMfax [FaxWorks OS/2] SOHO
LAN with Windows and NT
Clients

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regular PMfax LAN products are not needed.

"We continue to support the use of OS/2 by the home and small office user," says Mark Ahlstrom, President of Keller Group. "Many customers are now using Windows and NT machines in addition to their OS/2 machines, and this new product provides a cost-effective faxing solution for their office."

All PMfax products are now available for electronic ordering and delivery through the Keller Group web site at

<http://www.kellergroup.com>.

Creating PDF Files

I just found out a really neat trick last night. I needed to get some Postscript files printed on a machine that doesn't have a PS printer or Ghostscript on it but does have Adobe Acrobat reader installed.

The latest version of GhostScript for OS/2, and the other supported platforms allows you to print PDF files. That is read in your PS file and print PDF to a file. This is really neat. GhostScript now also lets you view PDF files. It is faster and seems to have better font rendering than the Acrobat reader, at least on my machine. (P233, 64 Mb and Matrox Mystique).

The new versions are GhostScript 5.50 and GhostView PM v2.7. They are available from:

<http://www.cs.wisc.edu/~ghost/index.html>

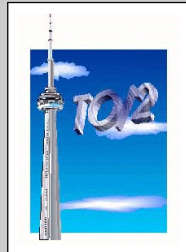
Cheers,

James Arnold

TO/2 User's Group Member



**Ever Onward OS/2
Campaign**



January 1999 Toronto OS/2 Shareware

Compiled by George Sikou, yurgen@globalserve.net
Standard Disclaimers Apply

- cdboot.zip** Directions and necessary files to create an OS/2 Bootable CD. * need emx dll's for this port.
Author: Allen Dermody
- ipmon10.zip** PMIPMon 1.00 for OS/2. PMIPMon is a small application to monitor throughput over a TCPIP connection. It displays IP address, MTU size, total bytes inbound and outbound, current bytes/sec, and maximum KB/sec for each connection. In addition you can specify a list of OS/2 objectids that should be launched when a new dialup connection is detected.
Author: Trevor Hemsley
Trevor-Hemsley@dial.pipex.com
- ircclien.zip** IBM Internet Chat Client for Java (V1.23)
- lcmd094.zip** Larsen Commander is a 32-Bit OS/2 Presentation Manager based File Manager with a default look and feel that is designed with inspiration from the grand old Norton Commander for DOS and the great File Commander for OS/2. It has a built in command line and a scrollable console monitor. Powerful, nice and snappy.
Author: Leif-Erik Larsen leifel@online.no
Webpage: <http://home.sol.no/~leilarse/index.html>
- pmmutl12.zip** PMMail 1.5-2.0 Utilities 1.2. Contains Attachment Stripper, Status for sent mail.
- unz540x2.exe** InfoZip Unzip version 5.40 32bit for OS/2.
- tp-112.zip** ThermoProtect V1.12. Monitor system temperature, fan speed, and voltage.
Author: David Wei davidwei@cybermail.net



WarpedC huckles

You Know You're a Techie If...

At Christmas, it goes without saying that you will be the one to find the burned out bulb in the string of Christmas lights.

Choosing to buy flowers for your girlfriend or to spend the money to upgrade your RAM is a moral dilemma.

Everyone else on the Alaskan Cruise is on deck gazing at the scenery, and you are still on a personal tour of the engine room.

In college, you thought Spring Break was metal fatigue failure.

The Salespeople at the local computer store can't answer any of your questions.

You are at an air show and know how fast the skydivers are falling.

You bought your wife a new CD-ROM drive for her birthday.

You can quote scenes from any Monty Python movie.

You can type 70 words per minute but can't read your own handwriting.

You comment to your wife that her straight hair is nice and parallel.

You go on the rides at Disneyland and sit backwards in the chairs to see how they do the special effects.

You have saved every power cord from all your broken appliances.

You have more friends on the internet than in real life.

You know what http:// stands for.

You look forward to Christmas only to put together the kids' toys.

You see a good design and still have to change it.

You spent more on your calculator than you did on your wedding ring.

You still own a slide rule and you know how to use it.

You think that when people around you yawn, it's because they didn't get enough sleep.

You window shop at Radio Shack.

You're both in the backseat of your car, she's looking wistfully at the moon, and you're trying to locate a geosynchronous satellite.

Your laptop computer costs more than your car.

Your wife hasn't the foggiest idea of what you do at work.

You've already calculated how much you make per second.

You've have tried to repair a \$5 radio.

Contacting TO/2

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

BBS: 416-968-1174 (Phillip Catt)

E- Mail: to2@to2.org

Mailing List: to2ug-l@to2.org

General 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

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Networking SIG Leader: Brian Erdelyi president@to2.org

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Warp Zone

A monthly publication of the Toronto OS/2 User's Group

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