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Law Institute1815 Pennsylvania Avenue NW
Third Floor
Washington DC 20006Phone: (202) 789-0234
Fax: (202) 296-4098

NIPLI Reciprocal Attendance Program

Trust and Confidence in the Global Infrastructure

We are pleased to announce a reciprocal attendance arrangement with The Open Group and their third quarterly conference of 1999, taking place the following week (October 25/26) at the Hilton Crystal City, near National Airport.


This conference brings together distinguished speakers from the regulatory, legal, economic, and business communities to explore the issues and challenges of building the trust and confidence necessary to support global eCommerce.

Visit [The Open Group](#) for more details and to register directly with The Open Group. ICI members may attend this conference at the US Government and academic rate of \$495.

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For General Information regarding NIPLI or this site. Please contact Ms. Kelley E. Clements via email at clements@nipli.org or by calling (202) 296-1258.

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The Open Group Conferences

Conference dates	Location	Plenary focus
26-30 June, 2000	Austin, Texas, USA	The Directory-Enabled Enterprise
23-27 October, 2000	Washington, DC	Security & Critical Infrastructure (subject to revision)
5-9 February, 2001	San Francisco Bay Area, California, USA	TBA
23-27 April, 2001	Germany/Scandinavia	TBA
16-20 July, 2001	Washington DC	TBA
22-26 October, 2001	London	TBA

● [Archive of past conferences](#)

Please note that certain information relating to Open Group conferences cannot be made available to the general public

Conferences include the Members Meeting and Program meetings in addition to Plenary sessions.

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- [What is UNIX® 98?](#)
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[The Open Group announces a Public License for Motif](#)

[Draft 3 of the revision of the Single UNIX Specification now available](#)

[Order a Live Free or Die UNIX License Plate!](#)

[The Open Group and IEEE to develop joint revision to POSIX and the Single UNIX Specification](#)

[Download a copy of the Single UNIX Specification V2](#)

[UNIX System Headline News Ticker \(click here\)](#)

UNIX® is a registered [trademark](#) of The Open Group

Some documents on this site are in PDF format. PDF viewers for 18 platforms are available from [here](#).

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[Server Platform Programs](#)

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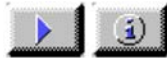
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Spring UniForum 1998

Presentation Overview :- Select Start to view slides individually



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UNIX® 98
A Status Update from
The Open Group

UniForum Association
Spring '98 Conference

Andrew Josey

UNIX® Product Manager
Email: a.josey@opengroup.org
<http://www.UNIX-systems.org>

Agenda

- The UNIX® System, Past and Present
- The Value of Standards
- The Single UNIX Specification
- UNIX 98 Product Standards
- The UNIX System Strengths
- UNIX System Futures

UNIX is a registered trademark of The Open Group



The UNIX® Operating System: Mature, Standardized and Start-of-the-Art

- Continual development over the last twenty-five years
- Deployed in millions of installations on nearly every hardware platform
- A reputation of stability and scalability
- Continued innovation as new technologies assimilated
- The popular choice for the internet



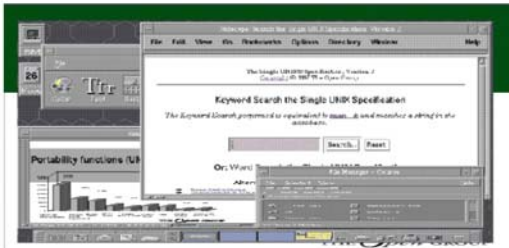
UNIX® Past Perceptions

- Uncompromising
- Command line interface required technical competence
- Command line syntax not intuitive
- Interface unfriendly
- Security often nonexistent
- Today, these perceptions are only of historical interest.



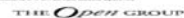
UNIX® Present

- A Standard Graphical User Interface
 - The Common Desktop Environment
- A Standard definition of the core operating environment
 - The Single UNIX Specification
 - Imitated by many "look-alike" products
- Security up to and including B1
- The internet server of choice
- Clustering and other high availability innovations available today



UNIX 95 Registered Products

- Bull E/S CALATM & SAGISTEPTM FAMILIES of symmetric, multi-processor and clustered systems & other binary compatible Bull CP9000 mainframe processing systems with AIX® Version 4.2.1 or later and C for AIX® Version 2 or later & XTI API Version 2
- Digital UNIX® Version 4.0 running Digital's AlphaStation and Digital's AlphaServer
- Hewlett-Packard HP-UX Release 10.20 and later on all HP-UX architectures: HP-UX and HP-UX/PA-RISC
- IBM® System z/OS™ and z/VM™ operating systems
- IRIX® 6.2 and later on the MIPS® architecture
- NCR UNIX System V Release 4 MP-RAS Release 3.20 or later on NCR WorkMark Series 2000 Series
- NCR Solaris 2.6 and on, on NCR WorkMark and "D" Series (486 based systems)
- NEC Linux60 Pro 2.0 and later on UP4800 and EW4800 Series
- SCO UnixWare® Family R3.1.1 and later for single and multiprocessor Intel, DEC Alpha or Pentium® PCs
- SUN® Solaris 2.6 and later on SPARC® architecture
- SUSE Linux 2.0.2 and later on x86 architecture
- Tru64 UNIX Release 5.0 and later on Alpha architecture
- UNICOS® Release 6.0 and later on AXP architecture
- VxWorks® Release 5.0 and later on MIPSR architecture



The Value of Standards

- Driven by the need for commonality and the desire to avoid consumer "lock-in"
- Endorsed by US and European Governments
- Resulted in the industry agreed definitive specification of what constitutes a UNIX system:
 - The Single UNIX Specification (1994)



The Value of Standards (Cont'd)

- Today, all the major vendors have implemented the Single UNIX Specification
- The UNIX mark is validated using extensive tests and backed up by a unique vendor guarantee - **The Open Brand**
- The Open Brand
 - operates under trademark law
 - designates products that are guaranteed to conform to open systems specifications
 - a vendor guarantees that any non-compliances will be fixed within a defined time period



The Single UNIX Specification

- Designed to give software developers a single set of APIs to be supported by every UNIX system
- Shifts the focus from incompatible UNIX system product implementations to compliance to a single set of APIs
- If an OS meets the specification and commonly available applications run on it then it is open.



The Single UNIX Specification



The User Driven Process

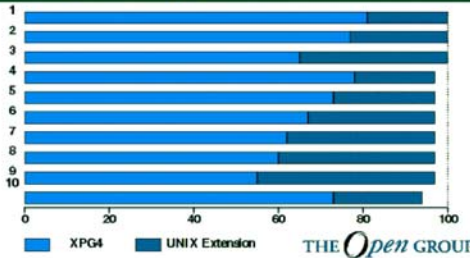
50 Popular Applications

Formal and Defacto Standards

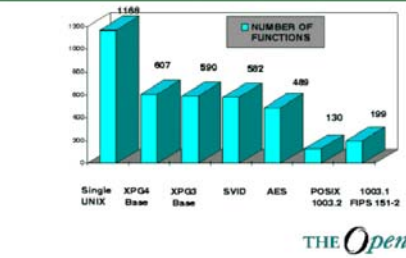
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Application Coverage by Specification

For Ten Representative Applications



Portability functions (UNIX 95)



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The Single UNIX Specification Version 2

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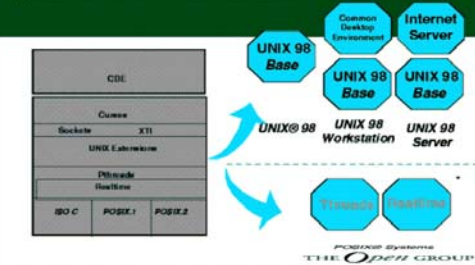
Formal Standards Alignment

- Builds on the foundation of latest international standards
 - mandates POSIX options to form a rich foundation which you can depend on
 - ISO/IEC 9945-1:1996 (POSIX) (System Interfaces)
 - Classic POSIX.1 functionality plus...
 - Realtime
 - Threads
 - ISO/IEC 9945-2:1992 (Shell & Utilities)
 - ISO/IEC 9899:1990/Amendment 1:1995 (MSE)
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Mandated POSIX.1 Options



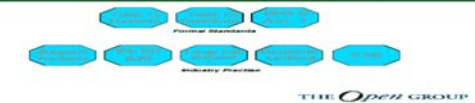
Specifications vs Product Standards



UNIX 98 Product Standards

- UNIX 98 - the mark for systems conforming to Version 2 of the Single UNIX Specification
 - UNIX 98 - "the Base"
 - UNIX 98 Workstation
 - UNIX 98 plus CDE
 - UNIX 98 Server
 - UNIX 98 plus Internet Server capabilities
 - Adds interoperability services to the UNIX 98 APIs in support of internetwork services
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UNIX 98 New Features Derivation



UNIX 98 Threads - Benefits

- A large benefit to certain classes of applications, such as server or parallel processing hardware
 - allows significant gains on multiprocessor hardware
 - increases application throughput, even on uniprocessor hardware
 - Built upon POSIX Threads with extensions
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UNIX 98 LFS and 64-bit

- The Single UNIX Specification has been updated to support large files with unlimited file offsets and 64-bit and larger systems
 - Removed 32-bit dependencies
 - Provides support for new leading-edge applications demanding larger data model and address space
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UNIX 98 Realtime

- Historically UNIX has been a timesharing system
- Today's applications have more stringent performance and robustness requirements
- Require predictable execution characteristics and precise timing.
- A new UNIX Realtime extension introduced based on POSIX 1003.1b

<http://www.UNIX-systems.org/version2/whatsnew/realtime.html>

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UNIX 98 and the Year 2000

- The *Single UNIX Specification* has been reviewed for Year 2000 alignment
- A white paper has been produced for existing users giving practical advice for users
- Year 2000 changes incorporated into Single UNIX Specification for UNIX 98

<http://www.UNIX-systems.org/version2/whatsnew/year2000.html>

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Portability functions (UNIX 98)

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UNIX 98 Server

- Captures existing *de-facto* practice
- Includes a *platform-independent* Internet Server Product Standard
- Additional functionality over existing UNIX 98 Product standard includes:
 - The Internet Protocol Suite
 - Java Support (JRE 1.1)
 - Internet capabilities to support network computing

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UNIX 98 Server - Internet Services

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UNIX System Strengths

- UNIX systems retain high-end system strengths
 - Stability and reliability
 - Scalability
 - High throughput
 - Database engine
 - Internet support

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Stable, Reliable and Mature

- Stable, Reliable and Mature
 - Safe, not risky
 - 25-year heritage of end-user development and use
 - Strong growth market
 - \$122 billion installed base
 - 150 countries
 - \$39 billion market currently, growing to \$50 billion in year 2000

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Mission Critical

- Proven Mission-Critical Capabilities
 - Widely deployed across industries and applications
 - 82% of all Internet servers
 - Majority of all scaleable enterprise databases, on-line transaction processing systems, and enterprise client/server applications
 - 24x7x52

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Open

- "Guaranteed Open" — The Open Group
 - Freedom of Choice
 - Consistent GUI — Common Desktop Environment (CDE)
 - Access to applications and data across multi-vendor platforms

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UNIX Futures - Key IT Trends

- The emergence of Network computing
- Knowledge Management
- Digital media replacing physical objects

UNIX is the optimal platform to take advantage of the latest IT trends. Continuing evolution to address scalability issues, and new technologies such as IPv6

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UNIX Systems - The Future

The leading operating system for mission- and business-critical computing applications, the open UNIX system environment provides unmatched maturity, throughput, reliability, stability and scalability, supported by multiple vendors.

Unlike other operating system environments, the customizable UNIX system can network the legacy past with the heterogeneous enterprise present and is flexible and robust enough to handle whatever the future brings.

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Further Information

- World Wide Web
 - <http://www.UNIX-systems.org>
 - <http://www.UNIX-systems.org/version2/>
 - <http://www.opengroup.org/regproducts/>
- Go Solo 2 - The Authorized Guide to Version 2 of the Single UNIX Specification
 - 600 pages
 - CD-ROM with the full 3000 page Specification in HTML and PDF.
 - <http://www.UNIX-systems.org/gosolo2/>
- The Online Single UNIX Specification
 - <http://www.UNIX-systems.org/online/>

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