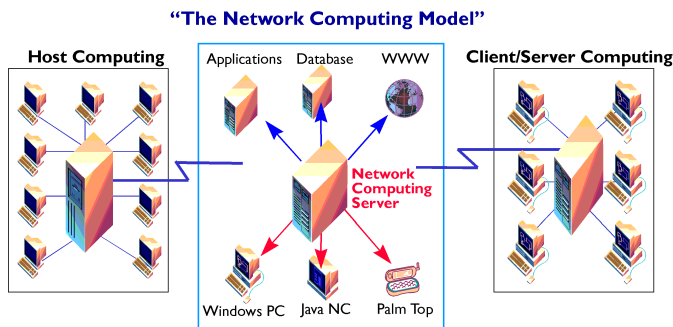## Executive Overview

All eyes have turned to SCO, the undisputed volume leader in the UNIX server market, who unveiled the next generation UNIX kernel - System V Release 5 (SVR5) on August 18, 1997.

SVR5 is the new UNIX kernel technology that will deliver to Intel customers unprecedented levels of performance, capacity, scalability and reliability. Products based on SVR5 will form the underpinnings of revolutionary Network Computing environments and cost-effective enterprise-level solutions.

The New Wave of Computing

SCO also announces that the brand name for its next generation operating system, code named Project Gemini, will be "UnixWare®". The new generation UnixWare product is based on SCO's new SVR5 kernel technology and has been designed to meet the business needs for today and tomorrow using the next computing wave - *"Network Computing"*. SCO has not yet announced the official product name of the new generation UnixWare, or pricing, or configurations. Those announcements are expected to follow shortly.

"The Network Computing Model"

SCO's strategy to deliver Network Computing solutions is called the Internet Way of Computing™ (IWoC™). It builds upon the next generation of open systems standards that includes the Internet, the World Wide Web, Java™ technology, Network Computers and the rapid convergence in emerging technologies for computing, data communications and telecommunications. SCO believes that this confluence of technologies and standards is providing the foundation for the new wave of dramatic changes towards Network Computing.

The benefits of this new generation of computing combines the best of both paradigms (host and client/server computing), as well as adding new capabilities and benefits for customers and Information Technology managers.

Network Computing …

- … delivers all the friendliness of the PC model, but uses a lower-cost and more flexible browser-based display methodology.

- … delivers the advantages of centralized management and administration.

- … is a server-centric model and as such allows easier flexibility to grow as customer needs change, as opposed to having to change all the client devices to keep pace with new technology.

- … can dramatically lower the total cost of ownership, with support for more inexpensive client devices and much lower administration and support costs.

Introducing UnixWare, based on SVR5

The new UnixWare system delivers a multi-functional, scalable UNIX operating environment with tightly integrated enterprise networking services, ideal for business critical computing. Designed to include a superset of functionality contained in SCO OpenServer™ Release 5.0 and SCO UnixWare 2 systems, it adds several new technologies and enhancements to take advantage of the latest system hardware and peripherals. It has built-in support for SCO OpenServer and SCO UnixWare applications by providing full application binary compatibility and with the inclusion of certain key 64-bit features it is designed to provide an easy path for the upcoming 64-bit Intel® Merced processor based UNIX systems.

The key characteristics of the new UnixWare system are:

- **It is the Best Server for Network Computing**

  With network install, update, replication, management, monitoring, auditing, licensing functionality and diverse client support, the new UnixWare is the Best Server for Network Computing.

- **The Most Advanced Operating System on Intel**

  Today SCO has the strongest operating system for unprecedented Network, Java and Database performance. The new UnixWare system is stable, reliable, scalable, fault tolerant and with the introduction of 64-bit architecture it will continue to be the most advanced Operating System on Intel.

- **The Most Adaptable Application Environment**

  The new UnixWare system fits well into legacy environments such as Mainframe, Microsoft NT, UNIX, LAN and WAN and integrates with all application and data types while supporting industry standards, making it the most adaptable operating system for Application Environments.

- **Convergence: The Leading UNIX Server**

  SCO is the UNIX platform of choice for the leading Enterprise OEMs. This convergence provides a high-volume of penetration through multiple channels, and allows low-end systems to remain cost-effective and easy to license.

One of the key new technologies that enables network computing and diverse client support is the Java technology. The new UnixWare system includes the Java Development Kit (JDK) and the Java Virtual Machine. The JDK enables the development of Java applications and applets on current and future SCO platforms.

In addition to the standard UNIX desktop, the new UnixWare system provides the ability to install a web-enabled, browser based interface. Also, for those organizations that have standardized on the Common Desktop Environment (CDE), a CDE desktop is available. This gives you the choice of deploying a traditional XWindows desktop or setting up an Internet environment which is network-centric, platform independent and is browser based.

For customers that want to take advantage of the latest video graphics and audio hardware to create a high powered desktop server for graphical applications, the new UnixWare system makes it easy to install and configure the latest graphics adapters and some digital audio interface cards. The system will support multi-monitor configurations and allows for multiple console devices, especially useful in technical design or financial applications. The graphics in the new UnixWare system is based on X11 Release 6 XWindows system, the industry's most current XWindows standard.

Network computing places a lot more emphasis on the robustness of the server. The new UnixWare system contains several enhancements as well as introduces some leading edge technologies that improve the overall system's performance and reliability - Hot Plug, Hot Swap and Failover, Clustering, new SCO PPP from Morning Star services, the latest networking technologies, file and print services, mail and messaging services, and remote access functionality to name but a few. For more detailed information please refer to the "Project Gemini" Whitepaper entitled "UnixWare, based on SVR5".
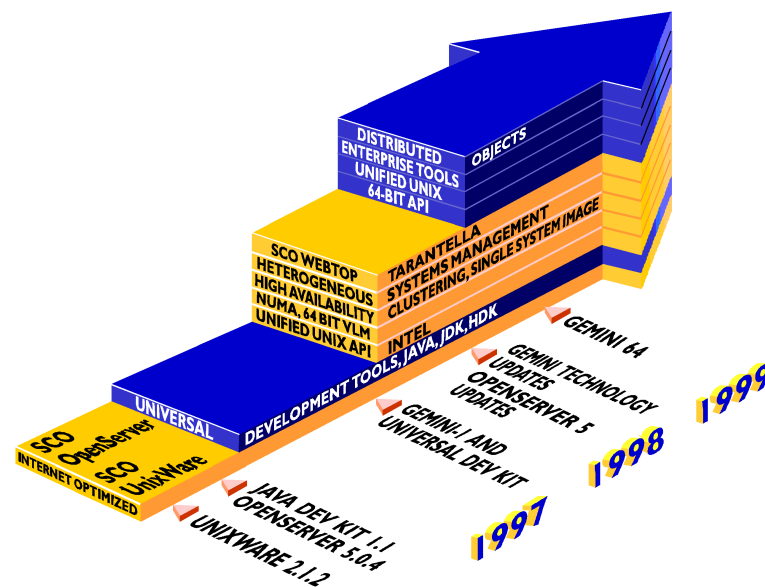
SCO will provide a number of advanced add-on products for the new UnixWare system. These products either enhance existing functionality or extend the capability of this latest UnixWare system into new areas. Some of these will come with the standard packaged product and others will be licensed separately.

- Business Critical applications on UNIX servers and Mainframe-class systems can be deployed anywhere in the world to Network Computers and other Java clients, with no rewriting using*Tarantella™*

- Microsoft file and print services to Windows PCs using *SCO VisionFS™*

- Backup and Restore data management of singular systems and network connected enterprise systems using *SCO® ARCserve®/Open from Cheyenne®*

- Monitoring and managing your SCO system to ensure optimum reliability and performance efficiency using *SCO Doctor™*

- RAID and Volume Management using *SCO Online Data Manager*

- Clustering solution for customers that require high levels of application, system and data availability using *SCO® Reliant® HA*

The Road Ahead with SCO

SCO has developed a comprehensive roadmap and product strategy for UNIX System users and developers to easily leverage the advancements that SCO is making for small, medium and enterprise-class environments. The new UnixWare system will bring significant new technologies and deliver compelling benefits to both the UNIX systems market and to customers.

SCO has structured the releases of the resulting operating systems (OS), OS extensions, development tools and migration tools to ease the migration from existing systems. The first of these deliveries, Gemini 1 will come in late 1997 and will result in a new SCO offering under the UnixWare brand, which is based on the SVR5 kernel. Along with the base platform, SCO will also release the code-named "Universal Development Kit (UDK)" and the "Hardware Development Kit" designed to run on new and existing SCO OpenServer Release 5.0, SCO UnixWare 2.1 and the new UnixWare system, based on SVR5. This includes development tools for network computing applications such as the Java Development Kit and the Java Just-in-Time (JIT) compiler.

Starting in 1998, SCO will continue to enhance this platform through a series of additional system services required by specific target segments. These additional system services are described in the "Introducing UnixWare" section above.

The new UnixWare platform is also designed to provide the easiest path to the 64-bit, next-generation UNIX System being developed by SCO for the Intel Merced processor. The new UnixWare system will deliver 64-bit features such as large files and filesystems, large physical memory and 64-bit ready API's. The SCO roadmap will ensure that the benefits of performance and scalability that 64-bit computing promises, are delivered in our new UnixWare operating system at the same time as Intel's Merced processor. SCO recognizes the investment that our customers have in today's 32-bit applications as well as the need to provide a simple and easy migration path that they can take at their own pace.

The Future for SCO OpenServer

To enable SCO OpenServer customers to move to the new operating environment in a planned fashion when it makes sense from a business operations and investment perspective, SCO will continue to provide enhancements to the SCO OpenServer operating system. These enhancements will address two key areas:

- Additional Hardware Support

- New technologies that are strategic to the Network Computing model and will make the adoption and migration to UnixWare system, based on SVR5 easier.

An update to SCO OpenServer Release 5 will released during mid-1998.

Since Forum96, SCO has:

- **September 1996** - SCO® XVision® Eclipse has been confirmed the fastest PC X server in a head-to-head review in PC Week between Hummingbird Exceed 5.1.1, NetManage ChameleonNFS/X 8.0 and NCD PC-Xware.

- **October 1996** - SCO and Dialogic announce the **FIRST** open CTI server for UNIX Systems - CT-Connect for SCO.

- **October 1996** - SCO UnixWare leaves the competition in the dust as enterprise-class operating system blazes to record throughput for Intel platforms in TPC Benchmark®-C.

- **November 1996** - SCO announced support for the I2O architecture in "Gemini" which will make it possible for systems to distribute I/O (Input/Output) functions across multiple processors to improve system performance.

- **November 1996**: SCO VisionFS is the **FIRST** to deliver Internet CIFS (Common Internet File System) file sharing to all Windows desktops.

- **December 1996** - SCO outlines strategy for bringing Internet Way of Computing to business-critical environments. Formula for success - UNIX Servers + Intel CPUs + Open Java + Diverse Clients.

- **December 1996** - SCO announces **NEW** technology that enables UNIX System Server and Mainframe-class applications to run immediately on Java compatible browsers without any additional programming. The product name "Tarantella" the release date, late 1997.

- **February 1997** - **NEW** SCO Advanced File and Print Server offers betters doorway to Windows® with NT 4.0 compatibility, terminal emulation functionality and localized language support.

- **February 1997** - **NEW** release of SCO ARCserve/Open from Cheyenne supports SCO UnixWare, NetWare® Directory Services and new clients.

- **February 1997** - SCO releases award-winning Internet Family for the SCO UnixWare platform and new additions to the SCO OpenServer platform including new servers from Netscape Communications Corporation and virus protection technologies from Trend Devices, Inc.

- **March 1997** - APEX Voice Communications and MediaSoft Telecom announce that their telephony development tools will support Gemini 1 at CT Expo 97.

- **March 1997** - SCO creates **the industry first** Compatible Hardware Web Pages. A dynamic Web-based tool that dramatically improves the efficiency of managing thousands of supported hardware components for SCO's resellers, developers and end users. Check out URL: *http://www.sco.com/Third/hch/*

- **April 1997** - SCO **FIRST** to deliver Enterprise-level clustering (SCO ReliantHA) for volume Intel Servers leaving Wolfpack in the den.

- **April 1997** - SCO continues Internet blitz, ships **NEW** SCO UnixWare 2.1.2 with a fully integrated Web Server and authoring tools from Netscape Communications Corporation, as well as network connectivity technologies and backup/restore services.

- **April 1997** - SCO releases Free* SCO UnixWare product for personal, educational and non-commercial use.

- **May 1997** - SCO Vision97™: **NEW** Internet ready versions of SCO's popular Windows to UNIX integration products with new centralised management and server deployment features.

- **May 1997** - SCO brings Java development to the world's leading UNIX operating systems for the Intel platform - SCO OpenServer and SCO UnixWare systems.

- **May 1997** - **NEW** SCO OpenServer Release 5.0.4 delivers Windows Connectivity and easy-to-use Internet services with Microsoft® compatible file and print services and a set of authoring tools from Netscape Communications Corporation.

- **May 1997** - SCO UnixWare system raises the bar again with Best Transaction Performance **EVER** on the Intel platform.

- **May 1997** - SCO announces support for Oracle8™, the database for Network Computing, which will provide a new level of power for the Enterprise market.

- **June 1997** - SCO gives users a Free* ride to the Internet with SCO OpenServer Release 5.0.4 and is the **FIRST** operating system vendor to offer Free Netscape™ licenses and Java Development Kit for personal, educational and non-commercial use.

- **July 1997** - New York based Web Consulting firm says NT is too slow and has chosen SCO OpenServer Internet FastStart to implement their web-base solutions.

SCO®