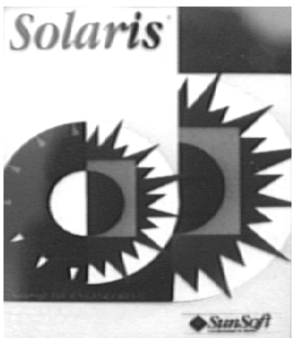
Recently Published Books by SunSoft Press/PTR Prentice Hall

Solaris Porting Guide



by SunSoft Developer Engineering
$49 U.S., paperback
ISBN 013-030396-8
Diskette included with source code and demos

The *Solaris Porting Guide* addresses the requirements of developers who want to stay current with the Solaris 2 operating environment and its related technologies. This 800-page guide is packed with technical information for a broad range of developers.

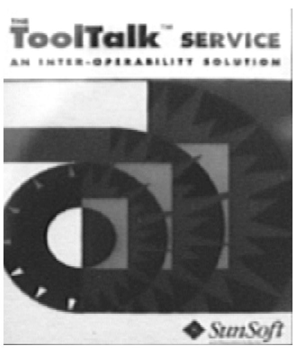
The guide offers detailed information on porting to Solaris 2 for legacy applications; i.e., popular third-party applications that have made Solaris 1.x a commercial success. Topics covered include dynamic linking, ANSI C standard compilation environment, new SVR4-style software packaging, new server and toolkit enhancements in OpenWindows™, a new version of XGL™/XIL/DPS in Graphics, compliance with standards such as SVID3, NIS+/TI-RPC/ONC+ in Networking, Interprocess Communication, and other SDO/ISO/IEEE/OMG standards compliance. In addition, Solaris 2 internationalization features allow these legacy applications to provide world-ready binaries for the global marketplace. A new hardware-independent device driver API, though requiring some porting effort, will save future engineering effort in device drivers. These new drivers will be source compatible on multiple hardware and software releases of Solaris 2.

Developers who are interested in the power of Solaris 2 can take their existing applications into the 90's by reading the chapters on application interoperability, which allows different applications to complement each other in accomplishing more complex business tasks; the raw power of software delivered by multiprocessing and multithreading, which takes advantage of high-performance hardware; and the real-time programming features, which manage mission-critical, time-dependent applications. While some of these features were custom built by application writers on previous UNIX platforms, Solaris 2 incorporates these APIs to address these complex issues allowing developers to focus on their applications' development and strategy rather than on system software enhancements.

Finally, the *Solaris Porting Guide* provides a look into the future with a chapter on Project DOE: Distributed Objects Everywhere. Even though DOE means a new paradigm for application developers, this chapter boldly provides a list of items that application writers can do today to ease their porting efforts and to be more aligned with future Solaris technologies.

The *Solaris Porting Guide* was written by SunSoft engineers who assist in application porting and is endorsed by the developers of Solaris for both its content and accuracy. It is keenly focused on developer issues as they relate to moving to Solaris 2.

The ToolTalk Service: An Interoperability Solution



by SunSoft, Inc.
$30 U.S., paperback
ISBN 013-088717-X

The ToolTalk Service: An Interoperability Solution introduces the ToolTalk® service, one of the first commercial products to facilitate information exchange between applications from different developers.

Networked system users depend upon a wide variety of critical applications. They expect these applications to integrate smoothly with any and all applications they use. ToolTalk meets this requirement and seamlessly integrates applications for both individuals and global workgroups. ToolTalk is available on multiple platforms, including SPARC®, x86, NCR®, SGI, IBM, HP, and DEC. The software on all platforms is equivalent in both usage and design, and the platforms are compatible with each other.

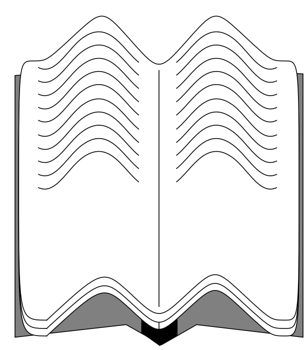
The ToolTalk Service: An Interoperability Solution is non-platform specific (although it is based on UNIX) and is suitable documentation for any platform on which ToolTalk runs. This book, a combined Programmer's Guide and Reference Manual, describes the ToolTalk API functions in detail. It also provides solutions to initialization errors and ToolTalk error messages.

A simple demonstration, which takes two existing applications that are publicly available, provides developers with a true sense of how ToolTalk can enable their applications to communicate with other applications. This demonstration is a working example of how to use this interapplication messaging service to modify existing applications to send and receive ToolTalk messages.

This book describes how to set up and maintain ToolTalk processes, how to maintain application information, and how to maintain files and objects referenced in ToolTalk messages. In addition, the ToolTalk-enhanced operating system commands that are included as part of the products are also described in detail.

Other topics include message patterns, participating in ToolTalk sessions, sending and receiving messages, how to create ToolTalk object specifications, managing and removing objects, and handling errors. The UNIX industry recently selected ToolTalk as the interapplication communication mechanism of choice for applications running within the Common Desktop Environment. *The ToolTalk Service: An Interoperability Solution* is a particularly valuable tool to developers who want their applications to take advantage of the universal 'plug-and-play' opportunities provided by the common open software environment.

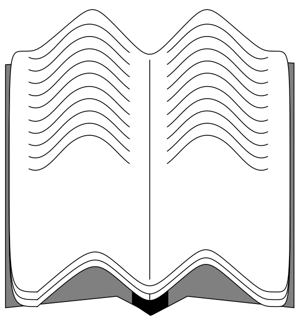
Solaris International Developer's Guide



by Bill Tuthill, SunSoft Press
paperback
ISBN 013-031063-8

The *Solaris International Developer's Guide* covers how to create global applications on the Solaris environment for either SPARC or x86 platforms. Detailed instructions are provided on developing software with the SunOS™ system libraries and the OpenWindows desktop environment. Guidelines are given for major language markets around the world, including multibyte Asian languages and key European languages.

Multiprocessor System Architectures



by Ben Catanzaro
$39 U.S., paperback
ISBN 013-089137-1
Available October 1993

Multiprocessor System Architectures is a technical survey of multiprocessor/multithreaded systems using SPARC, multi-level architectures, and Solaris. This book describes the design of multiprocessor systems from Sun. *Multiprocessor System Architectures* includes new technology that integrates packet switched buses and multithreading techniques in the implementation of multiprocessor systems.

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