

Solaris NEO

Operating Environment

Product Overview



2550 Garcia Avenue
Mountain View, CA 94043
U.S.A.

Part No. 95392-002
January 1996

© 1996 Sun Microsystems, Inc.
2550 Garcia Avenue, Mountain View, California 94043-1100 U.S.A

All rights reserved. This product and related documentation is protected by copyright and distributed under licenses restricting its use, copying, distribution and decompilation. No part of this product or related documentation may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Portions of this product may be derived from the UNIX® and Berkeley 4.3 BSD systems, licensed from UNIX Systems Laboratories, Inc. and the University of California, respectively. Third party font software in this product is protected by copyright and licensed from Sun's Font Suppliers.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and FAR 52.227-19.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

TRADEMARKS

Sun, Sun Microsystems, the Sun logo, SunSoft, Solaris, NEO, NEOworks, Answerbook, SunNet Manager, JumpStart, NFS, PC-NFS, Online: DiskSuite, SunOS, ToolTalk, OpenWindows, ONC, ONC+, SolarNet, SolarNet PC-Admin, and Wabi are trademarks or registered trademarks of Sun Microsystems, Inc. UNIX is a registered trademark of UNIX System Laboratories, Inc. All other product names mentioned herein are the trademarks of their respective owners.

Microsoft, Microsoft Windows, OLE, MS-Windows, and Visual Basic are trademarks or registered trademarks of Microsoft Corporation. Apple and MAE are trademarks or registered trademarks of Apple Computer, Inc. PostScript and Display PostScript are trademarks or registered trademarks of Adobe Systems, Inc. NetWare and Novell are trademarks or registered trademarks of Novell Corporation. OMG is a trademark of the Object Management Group. Orbix is a trademark or registered trademark of IONA Technologies, Ltd. Persistence is a trademark of Persistence Software, Inc. NEXTSTEP and OpenStep are trademarks or registered trademarks of Next Computer, Inc. DCE is a trademark of the Open Software Foundation. Oracle is a trademark or registered trademark of Oracle Corporation. Informix is a trademark or registered trademark of Informix Software Inc. Ingres is a trademark or registered trademark of Computer Associates, Inc. Sybase is a trademark or registered trademark of Sybase Corporation. Persistence is a trademark or registered trademark of Object Design, Inc.

The OPEN LOOK® and Sun™ Graphical User Interfaces were developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements. X Window System is a trademark and product of the Massachusetts Institute of Technology.



Please
Recycle

Contents

1. Introduction	1
Software for Dynamic Enterprise Systems	2
Rapid Response to Change for a Competitive Advantage	2
Object Technology Enables Application Flexibility	2
Reducing the Software Development and Maintenance Burden	3
Shared Services Enable the Networked Enterprise	3
2. The NEO Product Family	5
A Comprehensive Solution.....	5
Standards for Interoperability.....	7
Solaris NEO Operating Environment	8
NEO Desktop.....	9
OpenStep	10
NEO Network	10
NEO Services	10
Solstice NEO	11
Workshop NEO Development Environment.....	11
NEOworks	12

Tools for Constructing Networked Objects	12
Tools for Building Graphical Applications	12
SPARCworks and SPARCompilers	13
MS-Windows Connectivity	13
Database Connectivity	14
3. NEO Desktop	15
Window Manager	16
Desktop Applications	16
Desktop Services	18
4. OpenStep	19
OpenStep Runtime System	19
OpenStep GUI Framework	20
OpenStep Application Framework	21
OpenStep Foundation Framework	21
OpenStep Enabling Framework	22
5. NEO Network	25
Introduction to NEO Network.	26
NEO Network ORB	29
Networked Object Model.	29
OMG Interface Definition Language	30
IDL Compiler	30
Programming Language Mappings	30
ORB Operations.	30
Basic Object Adapter.	31
Interface Repository.	32
Dynamic Type Support	32

Inter-ORB Communication	32
NEO Network Object Services	33
Naming Service	34
Event Service	34
Property Service	35
Relationship Service	35
LifeCycle Service	36
6. NEO Services	37
NEO Services Runtime System	38
Workgroup Support	38
Shared Service Finder	39
Server Availability	39
Persistent Object Availability	40
Data Store Manager	40
Concurrent Requests	41
Implementation Support	42
Server Management	43
Application Installation	43
7. Solstice NEO	45
Advanced Administration and Management Tools	46
System Installation and Management	47
Workgroup and Shared Service Administration	48
Application Installation and Management	49
References	51

