Preface

This document will help vendors and customers get their products running on Sun workstations. It is not intended as a replacement or substitute for the existing manual set, but rather as a guide to find the information to make porting decisions. This document also does not replace consultation with the various technical support organizations within Sun Microsystems, which exist primarily to support this audience before porting of hardware and software.

The Porting Reference Guide is both a tutorial and a reference.

This Porting Reference Guide is organized into 9 distinct chapters, followed by 3 appendixes that support these chapters. Chapters 1 through 8 discuss available programming languages and graphics alternatives and reference more detailed Sun documentation. The last chapter is designed to assist various markets by presenting case studies and solutions to porting to the Sun platform.

Chapter 1 describes the Sun Operating System (SunOS™,) which comprises both AT&T System V and Berkeley 4.2/4.3 UNIX® operating system features. Chapter 2 details the various networking standards and interfaces found in the Sun environment. Chapter 3 describes the programming language products available through Sun Microsystems. Chapter 4 discusses software development tools only available through Sun Microsystems. Window system servers and toolkits are explained in chapter 5, and the rich set of graphics options is described in Chapter 6. Chapter 7 presents an overview of Sun Microsystems computer architecture, and Chapter 8 covers porting issues that effect migration between the various SunOS releases and into the future. Finally, chapter 9 presents marketing case studies of porting examples, with solutions to the Sun OS environment.

Each chapter builds on previous chapters and serves as a reference for experienced users. While reading through the first 8 chapters, readers are advised to consult Appendix A, the sample code of working examples. Existing Sun customers will benefit from a SunOS 4.0 Installation Checklist, included in Appendix B, and all readers will benefit from the complete Sun Microsystems documentation ordering list found in Appendix C. For further details regarding the individual topics, refer to the appropriate manual in your docubox or through your salesperson.

In addition to the tools and products presented in this guide, the Catalyst™ Program is an integral piece of Sun's overall picture. Sun's Catalyst program is built on relationships established with third-party hardware and software vendors. The program provides the widest range of applications to serve your computing needs. The many solutions available on Sun workstations are listed in the *Catalyst* catalog. Catalyst products supplement

Sun's own products in a variety of areas including communication, office automation, graphics software engineering, and artificial intelligence. With applications covering over 16 different areas, Catalyst provides you with complementary packages to meet your complete computing needs.

The Catalyst catalog lists a wide range of supplementary products available through third-party sources.

The Catalyst catalog is a reference manual of applications compatible with the Sun family of products. The catalog can assist you in selecting products you need by offering product descriptions, environment criteria, and information about where and how to get these products. Each user deals directly with the third-party vendor to purchase the products.

We encourage your comments, suggestions, and ideas to help us build a more useful porting guide by mailing us directly to:

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