OS-9
TECHNICAL I/O
MANUAL

ACKNOWLEDGEMENTS

Many thanks to Warren Brown, Larry Crane, and Peter Dibble for their wisdom, patience, and perseverance.

COPYRIGHT AND REVISION HISTORY

This manual reflects Version 2.4 of the OS-9 Operating System.

Publication Editor: Walden Miller, Kathleen Flood, Debbie Baier
Revision: C
Publication date: October 1990
Product Number: oio68na68mo

DISCLAIMER

The information contained herein is believed to be accurate as of the date of publication, however, Microware will not be liable for any damages, including indirect or consequential, from use of the OS-9 operating system, Microware-provided software or reliance on the accuracy of this documentation. The information contained herein is subject to change without notice.

REPRODUCTION NOTICE

The software described in this document is intended to be used on a single computer system. Microware expressly prohibits any reproduction of the software on tape, disk or any other medium except for backup purposes. Distribution of this software, in part or whole, to any other party or on any other system may constitute copyright infringements and misappropriation of trade secrets and confidential processes which are the property of Microware and/or other parties. Unauthorized distribution of software may cause damages far in excess of the value of the copies involved.

For additional copies of this software and/or documentation, or if you have questions concerning the above notice, the documentation, and/or software, please contact your OS-9 supplier.

TRADEMARKS

OS-9 is a trademark of Microware Systems Corporation.

Microware Systems Corporation • 1900 N.W. 114th Street
Des Moines, Iowa 50325-7077 • Phone: 515/224-1929

Table of Contents

Random Block File Manager (RBF)

Sequential Character File Manager (SCF)

Sequential Block File Manager (SBF)

End of Table of Contents

NOTES

Introduction

You can use the ***OS-9 Technical I/O Manual*** as a supplement to the ***OS-9 Technical Manual***, which descibes in detail how the I/O system operates. The ***OS-9 Technical I/O Manual*** provides further information to help you create new file managers and device drivers, and supplies examples which you can adapt to your specific system needs. A basic understanding of the ***OS-9 Technical Manual*** is assumed.

This manual contains the following chapters:

- ***Chapter 1 - The OS-9 Input/Output System***
  Explains the relationships between the kernel, device descriptors, path descriptors, and file managers, and how each of these components operates within OS-9.

- ***Chapter 2 - Random Block File Manager (RBF)***
  Explains how to use the RBF manager to process I/O service requests to random access devices, and the parameters that drive it.

- ***Chapter 3 - Sequential Character File Manager (SCF)***
  Explains how to use the SCF manager to process I/O service requests to devices which operate on a character by character basis, and the I/O editing functions available for line-oriented operations.

- ***Chapter 4 - Sequential Block File Manager (SBF)***
  Explains how to use the SBF manager to process I/O service requests to sequential block-oriented mass storage devices

In addition, chapters 2, 3, and 4 each contain a description of how device driver routines for the respective class should operate. These descriptions are based on existing Microware drivers.

If this manual accompanies a media package that contains driver source code (for example, Port Pak, Driver Pak), we recommend that you study the source code in conjunction with this manual.