

Elsevier Butterworth-Heinemann
Linacre House, Jordan Hill, Oxford OX2 8DP
30 Corporate Drive, Burlington, MA 01803

First published 2004

Copyright © 2004, Matthew Harrison. All rights reserved

The right of Matthew Harrison to be identified as the author of this work has been asserted in accordance with the Copyright, Designs and Patents Act 1988

No part of this publication may be reproduced in any material form (including photocopying or storing in any medium by electronic means and whether or not transiently or incidentally to some other use of this publication) without the written permission of the copyright holder except in accordance with the provisions of the Copyright, Designs and Patents Act 1988 or under the terms of a licence issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London, England W1T 4LP. Applications for the copyright holder's written permission to reproduce any part of this publication should be addressed to the publisher

Permissions may be sought directly from Elsevier's Science & Technology Rights Department in Oxford, UK: phone: (+44) 1865 843830, fax: (+44) 1865 853333, e-mail: permissions@elsevier.co.uk. You may also complete your request on-line via the Elsevier homepage (<http://www.elsevier.com>), by selecting 'Customer Support' and then 'Obtaining Permissions'

Library of Congress Cataloguing in Publication Data

A catalogue record for this book is available from the Library of Congress

SAE ISBN 0 7680 1505 7

Order No. R-364

SAE International

400 Commonwealth Drive

Warrendale, PA 15096-0001 U.S.A.

Phone: (724) 776-4841

Fax: (724) 776-5760

E-mail: publications@sae.org

<http://www.sae.org>

Cover images:

MTS Systems Corporation
Group Lotus plc

Typeset by Integra Software Services Pvt. Ltd, Pondicherry, India.
Printed and bound in Great Britain