Pro Apache Ant

Matthew Moodie

Pro Apache Ant

Copyright © 2006 by Matthew Moodie

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

ISBN (pbk): 1-59059-559-9

Printed and bound in the United States of America 9 8 7 6 5 4 3 2 1

Trademarked names may appear in this book. Rather than use a trademark symbol with every occurrence of a trademarked name, we use the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

Lead Editor: Steve Anglin

Technical Reviewer: Carsten Ziegeler

Editorial Board: Steve Anglin, Dan Appleman, Ewan Buckingham, Gary Cornell, Tony Davis, Jason Gilmore, Jonathan Hassell, Chris Mills, Dominic Shakeshaft, Jim Sumser

Project Manager: Beth Christmas Copy Edit Manager: Nicole LeClerc

Copy Editor: Kim Wimpsett

Assistant Production Director: Kari Brooks-Copony

Production Editor: Laura Cheu Compositor: Susan Glinert Proofreader: Kim Burton Indexer: Carol Burbo

Artist: Kinetic Publishing Services, LLC

Cover Designer: Kurt Krames

Manufacturing Director: Tom Debolski

Distributed to the book trade worldwide by Springer-Verlag New York, Inc., 233 Spring Street, 6th Floor, New York, NY 10013. Phone 1-800-SPRINGER, fax 201-348-4505, e-mail orders-ny@springer-sbm.com, or visit http://www.springeronline.com.

For information on translations, please contact Apress directly at 2560 Ninth Street, Suite 219, Berkeley, CA 94710. Phone 510-549-5930, fax 510-549-5939, e-mail info@apress.com, or visit http://www.apress.com.

The information in this book is distributed on an "as is" basis, without warranty. Although every precaution has been taken in the preparation of this work, neither the author(s) nor Apress shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this work.

The source code for this book is available to readers at http://www.apress.com in the Source Code section.

Contents at a Glance

About the Author .	iiixiii
About the Technical Reviewer	
Acknowledgments	S xvi
CHAPTER 1	Introducing Ant
CHAPTER 2	Installing Ant11
CHAPTER 3	Using Ant
CHAPTER 4	Examining Ant's Types77
CHAPTER 5	Building a Project99
CHAPTER 6	Deploying an Application
CHAPTER 7	Running an Application169
CHAPTER 8	Testing an Application187
CHAPTER 9	Using Ant in Large Projects209
CHAPTER 10	Writing Custom Tasks225
CHAPTER 11	Extending Ant
CHAPTER 12	Using the Ant API
INDEV	
INDEX	