#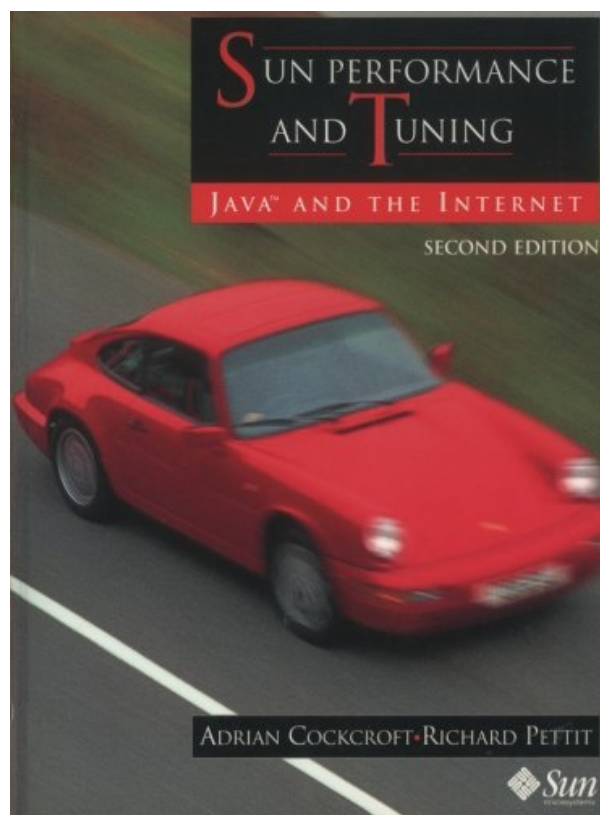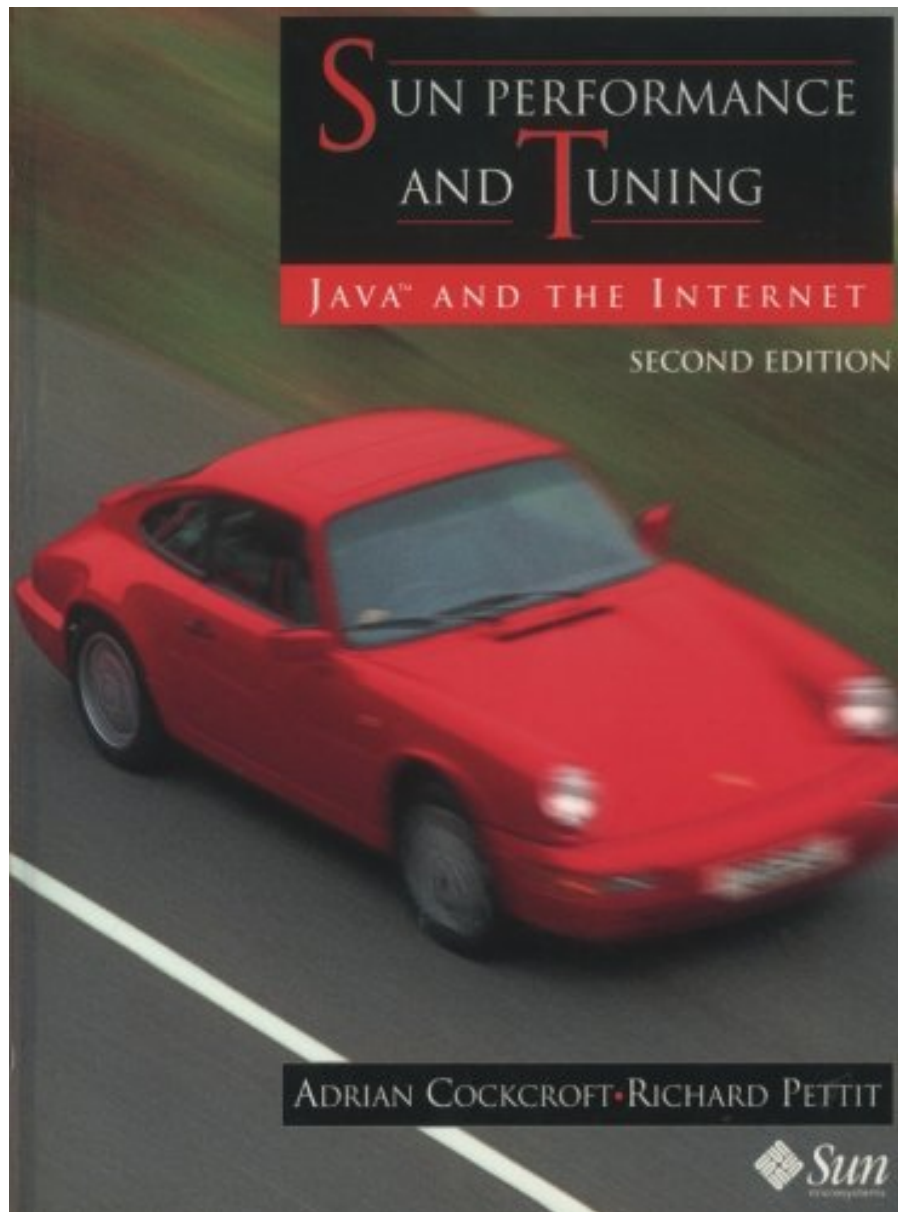 SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS

DOWNLOAD EBOOK : SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS PDF

Click link bellow and free register to download ebook:
SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS

SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS PDF

Collect guide **Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press** begin with currently. However the brand-new method is by accumulating the soft file of the book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press Taking the soft documents can be saved or kept in computer system or in your laptop computer. So, it can be greater than a book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press that you have. The easiest method to reveal is that you can additionally save the soft file of Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in your ideal and available gadget. This problem will suppose you too often check out Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in the extra times more than chatting or gossiping. It will certainly not make you have bad habit, yet it will lead you to have far better routine to read book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press.

From the Inside Flap

Preface

This book consists of everything I have learned over the years about performance and tuning. It includes a structured approach, opinions, heuristics, and references. It contains documentation of the behavior of systems, with recommendations that are often needed but that are rarely available. I cover all of the Solaris operating system releases up to Solaris 2.6, and major Sun products up to the beginning of 1998.

This second edition of Sun Performance and Tuning has doubled in size, and almost all the content is new. I have been writing a monthly performance question and answer column for SunWorld Online magazine at sun/sunworldonline, and many of those columns have been updated and incorporated into this book. You should read my column regularly to keep up to date with developments that postdate publication of this book.

During the three years since first publication, the Internet transitioned from a useful tool to a major part of the computer business, and the Java phenomenon arrived. This is both a subject for discussion-hence the new subtitle for this edition-and a resource for obtaining detailed and up-to-date information. I have also worked closely with Richard Pettit over the last few years to develop the SE Performance Toolkit, and this edition contains detailed documentation written by Richard on the toolkit, and the performance interfaces provided by Solaris. We decided not to include it with the book on a CD-ROM, as it is easy to download the latest release over the Internet. The SE3.0 release is available and my January 1998 SunWorld Online column is a

FAQ for SE.

This book is aimed both at developers who want to design for performance and need a central reference to better understand Sun machines, and at system administrators who have a Sun machine running applications and want to understand and improve overall performance.

This book covers an incredibly complex and fast-changing topic. I have tried to organize it in a useful manner with the most important information up front in each chapter and many cross-references. A book like this can never truly be complete and finished, but it has to be frozen at some point so it can be published!

How This Book Is Organized

This book is intended to be read sequentially, as it tries to cover the most significant and most common performance problems first. You can use it as a reference work by following the many cross-references that link related topics.

Chapter 1 - Quick Tips and Recipes is for those of you who need results now and don't have time to read the whole book first.

Chapter 2 - Performance Management covers the methods and tools used to manage performance.

Chapter 3 - Performance Measurement to decide whether your efforts at tuning have made any difference to the system performance.

Chapter 4 - Internet Servers contains an introduction to TCP/IP and offers guidelines on tuning and sizing web servers and proxy caching web servers.

Chapter 5 - Java Application Servers contains a complete sizing guide for serving the new class of Network Computer client systems based on Java.

Chapter6 - Source Code Optimization is aimed primarily at developers and end users who have access to the source code of the application being tuned. It covers Java performance and 64 bit issues.

Chapter7 - Applications tells you how to find out what an off-the-shelf application is doing and discusses changes in the execution environment.

Chapter8 - Disks investigates the performance characteristics of disk subsystems and describes how to monitor and tune them.

Chapter 9 - Networks contains Sun-specific information on network hardware and performance issues.

Chapter10 - Processors looks at how to decide whether you have enough CPU power for your workload. The chapter also provides a high-level description of the interactions between multiprocessor machines and Unix.

Chapter11 - System Architectures looks at the way uniprocessor and multiprocessor SPARC systems are put together.

Chapter12 - Caches looks at how caches work in principle, with examples of hardware and kernel based caching mechanisms.

Chapter13 - RAM and Virtual Memory explains how the paging algorithm works and where memory flows to and from in the system.

Chapter 14 - Kernel Algorithms and Tuning provides an insight into the algorithms and tunable parameters of the Solaris 2 kernel.

Chapter 15 - Metric Collection Interfaces describes the interfaces to Solaris and how to code to them to get at performance information.

Chapter 16 - The SymbEL Example Tools documents the example tools that are provided with the SE performance toolkit.

Chapter 17 - The SymbEL Language contains the complete user manual and descriptions of how to use this freely available performance toolkit.

Appendix A - Tunables Quick Reference turns the advice given elsewhere into tunable values summarized in table form.

AppendixB - References contains a long list of sources of further information, with a description of what is of interest in each document.

Related Books

I have tried to avoid duplicating the techniques and content covered by my colleague Brian Wong in his book Configuration and Capacity Planning for Solaris Servers, Sun Microsystems Press, 1997. There is some natural overlap, but it is best to treat the two books as a matched pair. Brian covers in great detail the techniques required to decide on an initial configuration and has far more information on system and storage architectures than I do.

During the summer of 1997, I presented a week long "Practical Performance Methods" class with Dr. Neil Gunther as part of the Stanford University Western Institute of Computer Science (WICS) summer seminar program. Neil's material is covered in his book, The Practical Performance Analyst, McGraw-Hill, 1998. Neil takes the most advanced techniques of performance analysis and modeling and relates them to real-world situations in a way that you can use directly to solve problems.

From the Back Cover

9524J-6

"As practical as a Swiss Army knife for a power-hungry SysAdmin. For all the Sun gurus, veterans and newbies: This is for you. As a must-have in one's library, it'll be one of your most worn out references in your serious IT career. It is practical and very illustrative in its approach to solving sample problems."
—Dexter D. Laggui

Hailed in its first edition as an indispensable reference for system administrators, Sun Performance and Tuning has been revised and expanded to cover Solaris 2.6, the newest generation of SPARC hardware, and the latest Internet and Java server technologies.

Featuring a quick guide to get you started, as well as detailed reference information, this book is indispensable both for developers who need to design for speed and administrators who need to manage system and network performance.

Performance guru Adrian Cockcroft brings his unique expertise and structured approach to this complex and rapidly changing topic, providing detailed information on key aspects of performance management and

system behavior that is not available anywhere else. Rich Pettit, author of the SE performance toolkit, describes the performance interfaces in Solaris and how to use this freely available toolkit to build your own customized performance-monitoring tools.

Key topics covered include:

- Performance Management and Measurement
- TCP and Internet Server Tuning
- JAVA Network Computer Server Sizing
- SPARC System Architectures
- Kernel Algorithms and Tuning
- How to Build Your Own Performance Tools
- Performance Rules and the virtual_adrian SE Tool

To get up to speed quickly on critical performance issues, this is the one book any Sun administrator, integrator or developer needs.

About the Author

ADRIAN COCKCROFT has a physics degree, worked as a software engineer, then joined Sun in the United Kingdom in 1988. He relocated to the U.S. between 1993 and 1996, and now lives in the UK. He tele-works to the U.S. based Enterprise Engineering group as Sun's performance management specialist. Since 1995 he has written a monthly Performance Q&A column for SunWorld Online. Contact him at Adrian.Cockcroft@Sun.COM

RICHARD PETTIT is the Chief Performance Architect for Resolute Software, Inc. (http://www.resolute.com). He has been involved in all levels of performance analysis and tuning for 8 of his 14 years of UNIX systems experience. Rich can be reached at richp@resolute.com

SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS PDF

Why must pick the trouble one if there is simple? Obtain the profit by acquiring guide **Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press** here. You will get various way to make a bargain as well as obtain the book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press As understood, nowadays. Soft documents of guides Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press become preferred amongst the users. Are you among them? And below, we are supplying you the brand-new collection of ours, the Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press.

When some individuals taking a look at you while checking out *Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press*, you could really feel so happy. Yet, instead of other people feels you need to instil in on your own that you are reading Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press not due to that factors. Reading this Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press will provide you more than people admire. It will guide to recognize greater than individuals looking at you. Already, there are many sources to discovering, reviewing a book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press still ends up being the first choice as a great way.

Why must be reading Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press Once more, it will certainly depend upon how you really feel and think of it. It is certainly that one of the benefit to take when reading this Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press; you can take more lessons straight. Also you have not undergone it in your life; you could acquire the experience by checking out Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press And also now, we will certainly present you with the on the internet book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in this site.

SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS PDF

9524J-6 As practical as a Swiss Army knife for a power-hungry SysAdmin. For all the Sun gurus, veterans and newbies: This is for you. As a must-have in one's library, it'll be one of your most worn out references in your serious IT career. It is practical and very illustrative in its approach to solving sample problems. Dexter D. Laggui Hailed in its first edition as an indispensable reference for system administrators, Sun Performance and Tuning has been revised and expanded to cover Solaris 2.6, the newest generation of SPARC hardware, and the latest Internet and Java server technologies. Featuring a quick guide to get you started, as well as detailed reference information, this book is indispensable both for developers who need to design for speed and administrators who need to manage system and network performance. Performance guru Adrian Cockcroft brings his unique expertise and structured approach to this complex and rapidly changing topic, providing detailed information on key aspects of performance management and system behavior that is not available anywhere else. Rich Pettit, author of the SE performance toolkit, describes the performance interfaces in Solaris and how t

- Sales Rank: #1988363 in Books
- Published on: 1998-04-17
- Released on: 1998-04-07
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.50" w x 6.70" l, 1.90 pounds
- Binding: Paperback
- 624 pages

From the Inside Flap

Preface

This book consists of everything I have learned over the years about performance and tuning. It includes a structured approach, opinions, heuristics, and references. It contains documentation of the behavior of systems, with recommendations that are often needed but that are rarely available. I cover all of the Solaris operating system releases up to Solaris 2.6, and major Sun products up to the beginning of 1998.

This second edition of Sun Performance and Tuning has doubled in size, and almost all the content is new. I have been writing a monthly performance question and answer column for SunWorld Online magazine at sun/sunworldonline, and many of those columns have been updated and incorporated into this book. You should read my column regularly to keep up to date with developments that postdate publication of this book.

During the three years since first publication, the Internet transitioned from a useful tool to a major part of

the computer business, and the Java phenomenon arrived. This is both a subject for discussion-hence the new subtitle for this edition-and a resource for obtaining detailed and up-to-date information. I have also worked closely with Richard Pettit over the last few years to develop the SE Performance Toolkit, and this edition contains detailed documentation written by Richard on the toolkit, and the performance interfaces provided by Solaris. We decided not to include it with the book on a CD-ROM, as it is easy to download the latest release over the Internet. The SE3.0 release is available and my January 1998 SunWorld Online column is a FAQ for SE.

This book is aimed both at developers who want to design for performance and need a central reference to better understand Sun machines, and at system administrators who have a Sun machine running applications and want to understand and improve overall performance.

This book covers an incredibly complex and fast-changing topic. I have tried to organize it in a useful manner with the most important information up front in each chapter and many cross-references. A book like this can never truly be complete and finished, but it has to be frozen at some point so it can be published!

How This Book Is Organized

This book is intended to be read sequentially, as it tries to cover the most significant and most common performance problems first. You can use it as a reference work by following the many cross-references that link related topics.

Chapter 1 - Quick Tips and Recipes is for those of you who need results now and don't have time to read the whole book first.

Chapter 2 - Performance Management covers the methods and tools used to manage performance.

Chapter 3 - Performance Measurement to decide whether your efforts at tuning have made any difference to the system performance.

Chapter 4 - Internet Servers contains an introduction to TCP/IP and offers guidelines on tuning and sizing web servers and proxy caching web servers.

Chapter 5 - Java Application Servers contains a complete sizing guide for serving the new class of Network Computer client systems based on Java.

Chapter6 - Source Code Optimization is aimed primarily at developers and end users who have access to the source code of the application being tuned. It covers Java performance and 64 bit issues.

Chapter7 - Applications tells you how to find out what an off-the-shelf application is doing and discusses changes in the execution environment.

Chapter8 - Disks investigates the performance characteristics of disk subsystems and describes how to monitor and tune them.

Chapter 9 - Networks contains Sun-specific information on network hardware and performance issues.

Chapter10 - Processors looks at how to decide whether you have enough CPU power for your workload. The chapter also provides a high-level description of the interactions between multiprocessor machines and Unix.

Chapter11 - System Architectures looks at the way uniprocessor and multiprocessor SPARC systems are put together.

Chapter12 - Caches looks at how caches work in principle, with examples of hardware and kernel based caching mechanisms.

Chapter13 - RAM and Virtual Memory explains how the paging algorithm works and where memory flows to and from in the system.

Chapter 14 - Kernel Algorithms and Tuning provides an insight into the algorithms and tunable parameters of the Solaris 2 kernel.

Chapter 15 - Metric Collection Interfaces describes the interfaces to Solaris and how to code to them to get at performance information.

Chapter 16 - The SymbEL Example Tools documents the example tools that are provided with the SE performance toolkit.

Chapter 17 - The SymbEL Language contains the complete user manual and descriptions of how to use this freely available performance toolkit.

Appendix A - Tunables Quick Reference turns the advice given elsewhere into tunable values summarized in table form.

AppendixB - References contains a long list of sources of further information, with a description of what is of interest in each document.

Related Books

I have tried to avoid duplicating the techniques and content covered by my colleague Brian Wong in his book Configuration and Capacity Planning for Solaris Servers, Sun Microsystems Press, 1997. There is some natural overlap, but it is best to treat the two books as a matched pair. Brian covers in great detail the techniques required to decide on an initial configuration and has far more information on system and storage architectures than I do.

During the summer of 1997, I presented a week long "Practical Performance Methods" class with Dr. Neil Gunther as part of the Stanford University Western Institute of Computer Science (WICS) summer seminar program. Neil's material is covered in his book, The Practical Performance Analyst, McGraw-Hill, 1998. Neil takes the most advanced techniques of performance analysis and modeling and relates them to real-world situations in a way that you can use directly to solve problems.

From the Back Cover

9524J-6

"As practical as a Swiss Army knife for a power-hungry SysAdmin. For all the Sun gurus, veterans and newbies: This is for you. As a must-have in one's library, it'll be one of your most worn out references in your serious IT career. It is practical and very illustrative in its approach to solving sample problems."
—Dexter D. Laggui

Hailed in its first edition as an indispensable reference for system administrators, Sun Performance and Tuning has been revised and expanded to cover Solaris 2.6, the newest generation of SPARC hardware, and the latest Internet and Java server technologies.

Featuring a quick guide to get you started, as well as detailed reference information, this book is indispensable both for developers who need to design for speed and administrators who need to manage system and network performance.

Performance guru Adrian Cockcroft brings his unique expertise and structured approach to this complex and rapidly changing topic, providing detailed information on key aspects of performance management and system behavior that is not available anywhere else. Rich Pettit, author of the SE performance toolkit, describes the performance interfaces in Solaris and how to use this freely available toolkit to build your own customized performance-monitoring tools.

Key topics covered include:

- Performance Management and Measurement
- TCP and Internet Server Tuning
- JAVA Network Computer Server Sizing
- SPARC System Architectures
- Kernel Algorithms and Tuning
- How to Build Your Own Performance Tools
- Performance Rules and the virtual_adrian SE Tool

To get up to speed quickly on critical performance issues, this is the one book any Sun administrator, integrator or developer needs.

About the Author

ADRIAN COCKCROFT has a physics degree, worked as a software engineer, then joined Sun in the United Kingdom in 1988. He relocated to the U.S. between 1993 and 1996, and now lives in the UK. He tele-works to the U.S. based Enterprise Engineering group as Sun's performance management specialist. Since 1995 he has written a monthly Performance Q&A column for SunWorld Online. Contact him at Adrian.Cockcroft@Sun.COM

RICHARD PETTIT is the Chief Performance Architect for Resolute Software, Inc. (http://www.resolute.com). He has been involved in all levels of performance analysis and tuning for 8 of his 14 years of UNIX systems experience. Rich can be reached at richp@resolute.com

Most helpful customer reviews

5 of 15 people found the following review helpful.
only if you're just starting out
By Alex P.
After reading the other reviews I had high hopes for this book. The book is not geared to people that already have basic sysadmin skills. And in one case the book makes a rather dubious statement. They list a few ndd parameters and state "The other values should never be changed on a production system." Well, they left out tcp_ip_abort_cinterval. And they don't mention tcp_ip_abort_linterval at all which so far seems to be an undocumented Sun Microsystems parameter. A book about tuning should cover all the tunable parameters and explain cause/effect. Simply stating that you never change the other parameters without explaining why isn't why you buy a book on Performance and Tuning.
If you're just starting out with Sun administration and do not know a lot of the unix commands to administer and monitor a Solaris box this book will help. The book does cover much of the basics and background that someone starting out needs. The book does leave out a number of higher level concepts and doesn't cover all

tunable parameters so it doesn't really help much beyond already available text/webpages which you'll still have to research and scour to really learn the whole story on Solaris performance and tuning. But if you already know some of what you're doing you're money is better kept in your pocket.

2 of 3 people found the following review helpful.
Indispensible
By Shawn A. Clifford
The first 5 pages alone helped me to tune my systems, setup cachefs, etc. Definitely worth the money if you are responsible for the care and feeding of Solaris boxes.

5 of 5 people found the following review helpful.
Essential Library Additon for Solaris professionals
By A Customer
This is a book for all Solaris professionals and non-professionals who have to deal with performance issues on the Solaris platform. Gives much needed nuts and bolts approach to performance analysis and give behind the scenes details. Some sections are too technical for novices and even Solaris Administrators familiar with many programming concepts and architectural issues may struggle with some technical discussions.
Negatives: Some sections are a little preachy toward the Solaris operating sytem. This shouldn't be a surprise since it's written by Sun Employees about Solaris. Sometimes technical illustrations of tuning result in this version of Solaris do XYZ, but we fixed it with patches or it was resolved in an operating system upgrades. This leaves you saying in some cases that's real nice, but all I have to do is upgrade or patch Solaris instead of tune it.
Positives: Most administrators and UNIX system professionsals are starved for this type of information. There are few technical courses of this type available and don't always go into this level of detail. Generally, it's very well presented on a subject that can be difficult to present in a capativating way.

See all 10 customer reviews...

SUN PERFORMANCE AND TUNING: JAVA AND THE INTERNET (2ND EDITION) BY ADRIAN COCKCROFT, RICHARD PETTIT, SUN MICROSYSTEMS PRESS PDF

What kind of publication **Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press** you will prefer to? Now, you will not take the published book. It is your time to get soft file publication Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press instead the printed documents. You could appreciate this soft file Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in any time you expect. Also it is in anticipated place as the other do, you could read the book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in your gizmo. Or if you really want much more, you could keep reading your computer or laptop computer to obtain complete screen leading. Juts find it right here by downloading the soft documents Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in web link web page.

From the Inside Flap

Preface

This book consists of everything I have learned over the years about performance and tuning. It includes a structured approach, opinions, heuristics, and references. It contains documentation of the behavior of systems, with recommendations that are often needed but that are rarely available. I cover all of the Solaris operating system releases up to Solaris 2.6, and major Sun products up to the beginning of 1998.

This second edition of Sun Performance and Tuning has doubled in size, and almost all the content is new. I have been writing a monthly performance question and answer column for SunWorld Online magazine at sun/sunworldonline, and many of those columns have been updated and incorporated into this book. You should read my column regularly to keep up to date with developments that postdate publication of this book.

During the three years since first publication, the Internet transitioned from a useful tool to a major part of the computer business, and the Java phenomenon arrived. This is both a subject for discussion-hence the new subtitle for this edition-and a resource for obtaining detailed and up-to-date information. I have also worked closely with Richard Pettit over the last few years to develop the SE Performance Toolkit, and this edition contains detailed documentation written by Richard on the toolkit, and the performance interfaces provided by Solaris. We decided not to include it with the book on a CD-ROM, as it is easy to download the latest release over the Internet. The SE3.0 release is available and my January 1998 SunWorld Online column is a FAQ for SE.

This book is aimed both at developers who want to design for performance and need a central reference to better understand Sun machines, and at system administrators who have a Sun machine running applications and want to understand and improve overall performance.

This book covers an incredibly complex and fast-changing topic. I have tried to organize it in a useful manner with the most important information up front in each chapter and many cross-references. A book like this can never truly be complete and finished, but it has to be frozen at some point so it can be published!

How This Book Is Organized

This book is intended to be read sequentially, as it tries to cover the most significant and most common performance problems first. You can use it as a reference work by following the many cross-references that link related topics.

Chapter 1 - Quick Tips and Recipes is for those of you who need results now and don't have time to read the whole book first.

Chapter 2 - Performance Management covers the methods and tools used to manage performance.

Chapter 3 - Performance Measurement to decide whether your efforts at tuning have made any difference to the system performance.

Chapter 4 - Internet Servers contains an introduction to TCP/IP and offers guidelines on tuning and sizing web servers and proxy caching web servers.

Chapter 5 - Java Application Servers contains a complete sizing guide for serving the new class of Network Computer client systems based on Java.

Chapter6 - Source Code Optimization is aimed primarily at developers and end users who have access to the source code of the application being tuned. It covers Java performance and 64 bit issues.

Chapter7 - Applications tells you how to find out what an off-the-shelf application is doing and discusses changes in the execution environment.

Chapter8 - Disks investigates the performance characteristics of disk subsystems and describes how to monitor and tune them.

Chapter 9 - Networks contains Sun-specific information on network hardware and performance issues.

Chapter10 - Processors looks at how to decide whether you have enough CPU power for your workload. The chapter also provides a high-level description of the interactions between multiprocessor machines and Unix.

Chapter11 - System Architectures looks at the way uniprocessor and multiprocessor SPARC systems are put together.

Chapter12 - Caches looks at how caches work in principle, with examples of hardware and kernel based caching mechanisms.

Chapter13 - RAM and Virtual Memory explains how the paging algorithm works and where memory flows to and from in the system.

Chapter 14 - Kernel Algorithms and Tuning provides an insight into the algorithms and tunable parameters of the Solaris 2 kernel.

Chapter 15 - Metric Collection Interfaces describes the interfaces to Solaris and how to code to them to get at performance information.

Chapter 16 - The SymbEL Example Tools documents the example tools that are provided with the SE performance toolkit.

Chapter 17 - The SymbEL Language contains the complete user manual and descriptions of how to use this freely available performance toolkit.

Appendix A - Tunables Quick Reference turns the advice given elsewhere into tunable values summarized in table form.

AppendixB - References contains a long list of sources of further information, with a description of what is of interest in each document.

Related Books

I have tried to avoid duplicating the techniques and content covered by my colleague Brian Wong in his book Configuration and Capacity Planning for Solaris Servers, Sun Microsystems Press, 1997. There is some natural overlap, but it is best to treat the two books as a matched pair. Brian covers in great detail the techniques required to decide on an initial configuration and has far more information on system and storage architectures than I do.

During the summer of 1997, I presented a week long "Practical Performance Methods" class with Dr. Neil Gunther as part of the Stanford University Western Institute of Computer Science (WICS) summer seminar program. Neil's material is covered in his book, The Practical Performance Analyst, McGraw-Hill, 1998. Neil takes the most advanced techniques of performance analysis and modeling and relates them to real-world situations in a way that you can use directly to solve problems.

From the Back Cover

9524J-6

"As practical as a Swiss Army knife for a power-hungry SysAdmin. For all the Sun gurus, veterans and newbies: This is for you. As a must-have in one's library, it'll be one of your most worn out references in your serious IT career. It is practical and very illustrative in its approach to solving sample problems."
—Dexter D. Laggui

Hailed in its first edition as an indispensable reference for system administrators, Sun Performance and Tuning has been revised and expanded to cover Solaris 2.6, the newest generation of SPARC hardware, and the latest Internet and Java server technologies.

Featuring a quick guide to get you started, as well as detailed reference information, this book is indispensable both for developers who need to design for speed and administrators who need to manage system and network performance.

Performance guru Adrian Cockcroft brings his unique expertise and structured approach to this complex and rapidly changing topic, providing detailed information on key aspects of performance management and system behavior that is not available anywhere else. Rich Pettit, author of the SE performance toolkit, describes the performance interfaces in Solaris and how to use this freely available toolkit to build your own customized performance-monitoring tools.

Key topics covered include:

- Performance Management and Measurement
- TCP and Internet Server Tuning
- JAVA Network Computer Server Sizing
- SPARC System Architectures
- Kernel Algorithms and Tuning
- How to Build Your Own Performance Tools
- Performance Rules and the virtual_adrian SE Tool

To get up to speed quickly on critical performance issues, this is the one book any Sun administrator, integrator or developer needs.

About the Author

ADRIAN COCKCROFT has a physics degree, worked as a software engineer, then joined Sun in the United Kingdom in 1988. He relocated to the U.S. between 1993 and 1996, and now lives in the UK. He tele-works to the U.S. based Enterprise Engineering group as Sun's performance management specialist. Since 1995 he has written a monthly Performance Q&A column for SunWorld Online. Contact him at Adrian.Cockcroft@Sun.COM

RICHARD PETTIT is the Chief Performance Architect for Resolute Software, Inc. (http://www.resolute.com). He has been involved in all levels of performance analysis and tuning for 8 of his 14 years of UNIX systems experience. Rich can be reached at richp@resolute.com

Collect guide **Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press** begin with currently. However the brand-new method is by accumulating the soft file of the book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press Taking the soft documents can be saved or kept in computer system or in your laptop computer. So, it can be greater than a book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press that you have. The easiest method to reveal is that you can additionally save the soft file of Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in your ideal and available gadget. This problem will suppose you too often check out Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press in the extra times more than chatting or gossiping. It will certainly not make you have bad habit, yet it will lead you to have far better routine to read book Sun Performance And Tuning: Java And The Internet (2nd Edition) By Adrian Cockcroft, Richard Pettit, Sun Microsystems Press.