



hp services

education

course description

## hp Tru64 UNIX performance on GS series systems u3703s

### course overview

This 2 day course covers how to configure a GS system to optimise performance. This course introduces Wildfire architecture concepts before addressing performance and configuration issues. It includes guidelines, programming issues, and handling I/O. Students will get useful and practical examples of applying technical knowledge for the improvement of their systems.

### audience

This course is designed for advanced UNIX administration and support personnel.

### benefits to you

This course covers the latest enterprise systems and supports the Alpha/hp Tru64 UNIX level 2 ASE certification topics, kernel concepts, and advanced hardware capabilities.

### pre-requisites

To get the most from this course, the student should be able to monitor and tune an hp Tru64 UNIX system.

### course objectives

Upon successful completion of this course, the student should be able to:

- Describe Wildfire architecture concepts
- Identify configuration issues in a NUMA architecture
- Describe hp Tru64 UNIX optimizations to support wildfire
- Identify tools to monitor and improve system performance

### next steps to order

You can order this course online at <http://education.hp.com>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

### why hp education?

- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- State-of-the-art classroom facilities
- Hands-on practice
- Focus on job-specific skills
- More than 120 locations worldwide
- Customized on-site delivery
- Online instructor-led and self-paced training at <http://itresourcecenter.hp.com>

## detailed course outline: hp Tru64 UNIX performance on GS series systems u3703s

module	key topics
Wildfire concepts	<ul style="list-style-type: none"><li>• hardware</li><li>• NUMA vs. SMP scaling</li><li>• hard partition requirements</li><li>• review of binary conversions</li><li>• sample hard partition setups</li></ul>
Wildfire hardware configuration for performance	<ul style="list-style-type: none"><li>• hardware configuration guidelines</li><li>• QBB configuration guidelines</li><li>• memory configuration guidelines</li><li>• CPU configuration guidelines</li><li>• I/O configuration guidelines</li><li>• summary of hardware configuration – some case studies</li></ul>
Wildfire software configuration for performance	<ul style="list-style-type: none"><li>• hp Tru64 UNIX operating system enhancements for NUMA</li><li>• CPU scheduling</li><li>• process control</li><li>• VM NUMA enhancements</li><li>• I/O optimizations</li><li>• network optimizations</li><li>• AdvFS integration with VM subsystem</li><li>• application programming interfaces</li><li>• examples</li></ul>
Wildfire configuration tools	<ul style="list-style-type: none"><li>• alpha configuration utility</li><li>• TECHport configuration aids for GS systems</li></ul>
Wildfire configuration lab	<ul style="list-style-type: none"><li>• lab instructions</li><li>• Case Study 1: AlphaOmega research</li><li>• Case Study 2: Washington financials</li><li>• Case Study 3: InterestRates storefront 5-9</li></ul>
Appendix A – miscellaneous examples and program sources	
Appendix B – AlphaServer worksheets	

### for more information

For more information on HP Education Services, contact any of our worldwide offices or visit our worldwide web site on the internet at <http://education.hp.com>

Technical information in this document is subject to change without notice.

Microsoft®, Windows®, MS Windows®, and Windows NT® are U.S. registered trademarks of Microsoft Corporation. UNIX® is a registered trademark of the Open Group.

©Copyright Hewlett-Packard Company 2000. All Rights Reserved. Reproduction, adaptation, or translation without prior written permission is prohibited except as allowed under the copyright laws.

7/02 rev. a U3703

