

HP Education Services

Quick HP Integrity NonStop Application Migration (UC414S)



This one-day course provides you with the information needed to convert applications to run on the new Integrity NonStop systems and the Integrity NonStop BladeSystem. The course starts with an overview of the new hardware architectures and then covers program migration information for each of the main languages. Other topics include the debuggers that are available on the new systems including the new Native Inspect debugger, the new linker, the changes to the Enterprise Toolkit (ETK), and the Enterprise Plugins for Eclipse (EPE).

Audience

- System designers
- Application developers
- Support personnel

Prerequisites

- Concepts and Facilities for NonStop Systems (U4147S) and
- Experience with programming languages

Course Objective

- Introduce Integrity NonStop servers
- Describe the steps required to migrate applications
- Describe the available debugging tools
- Discuss changes to the Enterprise Toolkit (ETK)
- Describe the code profiling utilities
- Become familiar with the Enterprise Plugins for Eclipse (EPE)

Benefits to You

- Streamline application migration tasks and increase your productivity by knowing where and how the application needs to be adjusted and being familiar with how to utilize compilation and debugging utilities including the eld linker, Native Inspect, and Enterprise Plugins for Eclipse (EPE)

Why education services from HP?

- Focus on job-specific skills
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- More than 80 training locations worldwide
- Customized on-site delivery

Course Title: Quick HP Integrity NonStop Application Migration

HP Product Number: UC414S

Category/Subcategory: NonStop/Application Design and Development

Course Length: 1 day

Level: Intermediate

Delivery Language: English

To Order: To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

Next Steps: Consider attending the other courses in the HP NonStop Application Development curricula

Detailed Course Outline

Module 1 - TNS/E Architecture Overview

- NonStop Advanced Architecture (NSAA)
- NonStop Multi-core Architecture (NSMA)
- NonStop Value Architecture (NSVA)
- Software and Dynamic Link Libraries (DLL)
- TNS/E process execution environment
- Changed and discontinued products and features

Module 2 - Compilers

- COBOL, C/C++, pTAL compilers
- Obsolete compiler directives
- Changed compiler directives
- File name changes
- New, changed, and obsolete pragmas
- Using conditional compilation
- New and changed Guardian procedure calls

Module 3 - Linking and Accelerating Applications

- eld basic operation
- Linking multi-module programs
- Creating a Dynamic Link Library (DLL)
- Changing object attributes
- Examining an object file
- Object Code Accelerator (OCA)
- Examining an accelerated object using TNSVU

Module 4 - Debuggers

- Debugger selection
- Changes to Visual Inspect
- Native Inspect features and commands
- Native Inspect for C/C++ and pTAL

Module 5 - Workstation Tools

- PC-hosted development tools
- Enterprise Toolkit (ETK) changes
- Application wizard
- Project properties
- Multiple platforms
- Migrating ETK projects
- Enterprise Plugins for Eclipse (EPE)
- ETK to EPE migration utility

Module 6 - Application Migration

- S-series to Integrity NonStop migration paths
- S-series TNS mode to Integrity NonStop TNS mode
- TNS/R native mode to TNS/E native mode
- Preparing programs for migration
- Adjusting for increased DCT limits
- pTAL, C/C++, and COBOL compiler directives and migration tasks
- Guardian API migration tasks

Module 7 - Code Profiling Utilities

- Code Coverage Tool (CCT)
- Installing the CCT
- Building and running an application for CCT
- Profile Guided Optimization (PGO)

Onsite Delivery Equipment Requirements

- This is a lecture-only course. There are no hardware or software requirements.

© © Copyright 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

ver c.00, February 2009

To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu.

