Hewlett Packard Enterprise

C Programming on HPE NonStop Systems U4144S

HPE course number	U4144S
Course length	3 days
Delivery mode	ILT/VILT
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In this course, you will get a solid introduction to the HPE NonStop server implementation of ANSI-standard C programming. You will learn C language syntax and ANSI-standard I/O routines and apply your knowledge through lab exercises. From basic syntax to advanced techniques, the course provides an intensive look at the C language. Prior C knowledge is essential.

Audience

- System analysts
- System programmers
- Programmers
- Programmer analysts

Prerequisites

- Concepts and Facilities for HPE NonStop Systems (U4147S)
- Familiarity with C programming syntax or TAL programming experience

Course objectives

- Provide an intensive look at basic C language syntax and advanced ANSI-standard I/O routines

Benefits to you

- C variables, constants, operators, arrays, structures, expressions, and statements
- If-Then-Else, Loop, and Switch (case) constructs
- Functions
- Pointers
- Routines
- C memory models and libraries
- Program and compiler directives
- ANSI-standard I/O

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: C Language Overview	• Distinguishing between types, operators, and expressions • Control flow • Writing functions using appropriate program structure • Using the Inspect and Native Inspect software products with C language programs • Lab exercise: become familiar with basic "C" code and constructs • Lab exercise: use standard "C" I/O functions and procedure calls
Module 2: Advanced C	• Using pointers • Pass pointers and arrays as parameters • Computing math with pointers • Using various types of pointers • Using argument count and argument vector parameters • Using STRUCTS and UNIONS • Lab exercise: reinforce your ability to use pointers
Module 3: The NonStop Server C Environment	• C memory models • Usage of compiler pragmas • Library headers • Variable argument handling and jumping from functions • ANSI file I/O and alternate file I/O • Preventive debugging • Lab exercise: use ANSI file I/O for file access
Onsite-delivery equipment requirements:	• One HPE NonStop server with NonStop operating system, version H06 or later • 6530 terminals or equivalent PC/workstation for instructor demonstrations • 6530 terminal or equivalent PC/workstation per student

Next steps

- C Programming in the Guardian Environment (U4143S)

Learn more at
hpe.com/ww/learnnonstop

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