



C Programming on NonStop Systems U4144S

HPE course number	U4144S
Course length	3 days
Delivery mode	ILT
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You will get a solid introduction to the HPE NonStop™ Server implementation of ANSI-standard C programming in this 3-day course. 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.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
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- Simplified purchase option with HPE Training Credits

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

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 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
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Next steps

- C Programming in the Guardian Environment (U4143S)

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