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CU012 - UNIX awk Programming

Length: 2 Days

Description

AWK is a pattern matching and processing utility which is excellent for data base scanning, processing, and conversion. Because AWK uses 'C' language syntax, it is also an excellent tool for 'C' program prototyping. This course teaches attendees how to use AWK to perform these functions. Examples of data base manipulation using AWK will be provided and attendees will develop AWK programs to perform these functions.

Course Objectives

Upon completion of this course the attendee will be able to:

1. Design and develop AWK programs;
2. Use AWK for file processing and report generation.

Course Materials

1. UNIX AWK Programming Student Guide and course notes.

Prerequisites

1. CU001 - Fundamentals of Unix
2. CU002 - Bourne Shell Programming or CU003 - Korn Shell Programming
3. A knowledge of C programming is helpful although not necessary.

Course Content

I INTRODUCTION TO AWK PROGRAMMING

- A Format of awk Programs
- B Basic awk Syntax
- C Comments in awk Programs
- D Executing awk Programs

II RECORDS, FIELDS, AND VARIABLES

- A Records and Fields
- B Positional Variables
- C Predefined Variables
- D User Defined Variables

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III PATTERN SPECIFICATIONS AND OPERATORS

- A Pattern Specifications
- B Special Symbols Tables
- C Relational Operators
- D Arithmetic Operators
- E Compound Assignment Operators
- F Incremental Operators

IV PRINT STATEMENTS

- A Unformatted Print
- B Printing Variables
- C Printing Character Strings
- D Formatted Print
- E Output Redirection
- F Pipes

V CONDITIONAL TESTS AND LOOPING MECHANISMS

- A if, if-else Statements
- B while Loops
- C for Loops
- D break and continue Statements
- E next and exit statements

VI AWK FUNCTIONS

- A String Handling Functions
- B Mathematical Functions
- C Arrays

VII AWK AND THE SHELL

- A Passing Shell Arguments to AWK
- B Passing AWK Output to the shell

VIII COURSE CONCLUSION