

A photograph of a workspace. In the foreground, a silver laptop sits on a white desk. To the left of the laptop is a tall, messy stack of papers and documents. In the background, a white filing cabinet with many drawers is visible. Some drawers are open, revealing blue and orange folders. The scene is brightly lit, suggesting an office or library environment.

Working with Files in Unix

Learn how to efficiently handle files in the Unix environment. Explore awk scripts, C programs, and more to manipulate and analyze file data.

Awk Script to Analyze a File

Purpose

Extract valuable information from files using a powerful awk script.

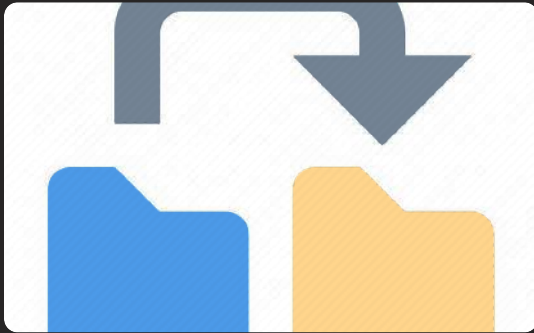
Steps

Follow a step-by-step guide to find the number of characters, words, and lines in your file.

Explanation

Dive deep into the awk command and its options to unleash the full potential of file analysis.

C Program to Copy a File



Objective

Master the art of duplicating files using a C program.



Implementation with Standard I/O

Discover how to utilize standard I/O functions for file copying.

System Calls Contd...

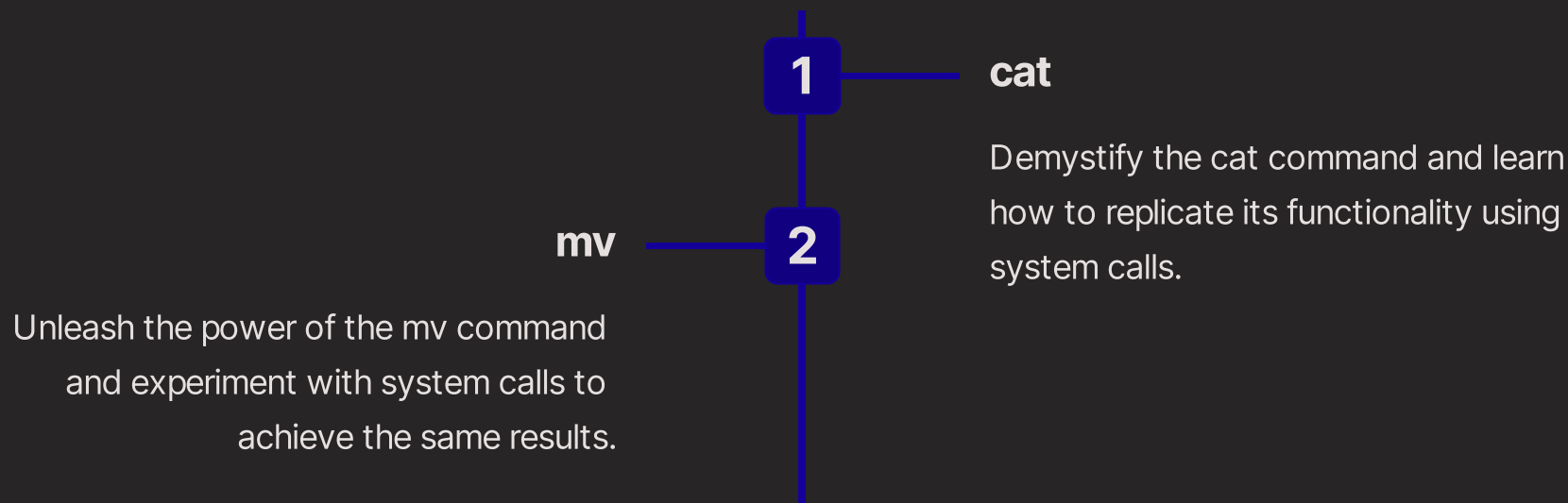
- Many System calls are required even to execute simple programs (around thousands of system calls per second)
- But application programmers develop programs according to [Application Programming Interface\(API\)](#).

What is API? API specifies a set of functions that are available to an application programmer along with parameters passed and return values.

Implementation with System Calls

Explore the low-level magic of system calls to create file duplicates.

Implementing Unix Commands in C





Conclusion

1 Summary

Recap the key concepts covered in this presentation, from awk scripting to Unix command implementation.

2 Importance of File Handling

Highlight the significance of proficient file manipulation in Unix programming.

3 Ready to Master Unix?

Encourage your audience to dive deeper into the world of Unix file management and programming.