

Course Description: This course teaches students how to use fundamental UNIX commands and basic Solaris commands. This course is intended for students new to Sun's Solaris operating system. Students will learn functions of the shell, file system navigation, Solaris editors, file commands (including ls, cat, rm, mv, cp and ln), additional commonly used commands (including grep, od and pr) as well as learning user communication tools such as mailx.

Who Should Attend: This course is intended for programmers and end users who are new to the Sun Microsystems Solaris Operating System.

Prerequisites: Some familiarity with an operating system such as DOS is required.

Benefits of Attendance: Upon completion of this course, students will be able to:

- Log in and out of the system.
- Navigate through the UNIX file system.
- Manipulate files.
- File permissions.
- Use basic network commands.
- Search for file names and strings.
- Edit files using the 'vi' editor.
- Use shell productivity features.
- Use shell productivity features.
- Use the 'vi' editor.
- Use mailx to send mail.

Course Outline:

Brief History Of Operating Systems

Operating system concepts
Operating system features
UNIX history
Major UNIX flavors
Solaris features
Solaris components
Solaris characteristics
Standards
Application areas

Getting Started

Logging in and logging out
Using the shell
Command line formats
How to get help-man
The stty command

Getting To Know The Shell

The shell as a user interface
The standard output file
Appending of the standard output file
The standard input file
Pipes
The standard error file
Summary of special I/O characters
Shell variables
Quoting mechanisms
Command substitution
The shell prompt variables
File name generation characters
Alias
Functions
The History Mechanism
Editing the command line

The File System

User view of the file system
File types
File system concepts
The /etc/passwd file
Directory commands
File access permissions
Groups
The chmod command
Using the umask

Solaris Editors

Solaris editors
Starting ed
Simple ed session
Format of ed commands
Another ed session
Summary of ed commands
Searching with ed
Substituting with ed
The vi editor

Editing an existing file
Adding text
Cursor movement commands
vi modes
Deleting text
Changing text
Copying and moving text
Searching for text
Last line mode
vi customization
Odds and ends

File Commands

Relative vs complete pathnames
The shell's search algorithm
The ls command - directory listing
The cat command - concatenate files
The rm command - remove files
The mv command - rename a file
The cp command - copy a file
The ln command - give file additional name
The cmp, diff commands - compare two files
The file command - determine file type
The pg command - page through a file
The find command - locate a file

Commonly Used Commands

The grep command - pattern matching
The wc command - word count
The sort command - sort lines of a file
The head command - display first few lines
The tail command - display last few lines
The tr command - translate characters
The cut command - cut fields (or chars)
The od command - octal dump a file
The paste command - paste lines together
The split command - split a file
The uniq command - report repeated lines
The lp command - print a file

The Mailx Command

The mailx command
Sending mail
Reading your mail
Commands within mail
Replying to mail
Tilde commands
mailx customization
Sending binary files
Decoding binary files
Sending directories