UNIX INTRODUCTION

The UNIX operating system is a multi-user computing environment designed to provide access to a range of computer applications, tools and utilities to the users of the system. It was designed and developed by Bell Laboratories in the late 60's and 70's for scientists at Bell Labs to help with research, such as writing and publishing technical papers, storing and manipulating data, communicating ideas and working with felhere colliesgues.

Universities and colleges obtained UNIX from Bell Labs for research into operating system design. In particular, one suiversity — UC Borkeley, made a variety of improvements and changes to UNIX and released its own version under the Berkeley Software Distribution

(BSD) label. Bell Labs also improved its own version of UNIX under the System V. Each variant provided. similar functionality, but BSD

always remained a research oriented tool under the Borkeley umbrella ustil its last release (BSD 4.4) in the mid 90's, Companies who used UNIX as the primary opersting system for their high-end servers and workstations licensed earlier releases of BSD and System V.

The Internet explosion has provided an immense col-laborative environment, which has produced a widely popular UNIX close (in that it was not bised on the orig-inal UNIX scuree code) called Linux. Linux provides the same functionality of BSD or SYSV UNIX, but is a completely new design from the ground up which runs on the land x86 platforms, as well as other hardware architectures. Other variants of the original BSD UNIX include FreeBSD, OpenBSD and NetBSD.

- UNIX Applications, X Window System, Compilers, Mail, Word Processing.
 UNIX Tools, Bosens-C/KSH Shell, Utilities (vi. noeff, man, Ip, who, sort).
 UNIX Kernel. Device Drivers, Researce / Process / Memory Management.
 Hardware, CPU, Memory, Modem, Hand Drives, Network, Video, I-O.

LOGGING IN/OUT

Logging in

Every UNIX user has a UNIX fegin username and succeed. This allows UNIX to keep teach of the difforest people and provide a separate working space for each person within the same system. Users can obtain their UNIX usersame and pussword from their system administrator. UNIX is a case-sensitive environment, so take careful note of the upper and lowercase in the december and password.

Once the unername and password is obtained, enter them at the login prompt:

Login: jsmith

Possywood: Borida

Welcome to SunOs 4.1.4 (GENERIC Kernel)

The "5" is the UNIX Shell prompt. It may vary depending on the specific system (the most common variant in "%"). The Shell is where the work will be completed for most of the sess

Changing the password

After logging in, change the passwood to something other than what was initially given. It is a good idea to

on words; instead, use a combination of numbers and letters. A good example is to use the first let-ters from a verse of a favorite poem, followed by two numerols. For example: Twinkle, Twinkle, Little Shar Deciment animal?

It is possible to change the passwood with the passwd.

5 passwel

Enter your old password: Sorida Enter your new possword: Ma42 Doenter your new password: ttis42 Password changed.

Logging out

Some LNEX is a multi-user system, it is very important to log out of the sension after the work is completed. This refuses the terminal back to the legar, peough so that the next user may login. Legging out can be accomplished by typing 'out' at the shell prompt:

ST CONTRACTOR

Depending on the shell, it is possible to use "logout" or TOTAL Countries - 1901

UNIX SHELLS & COMMAND LINE

sells provide a command line interface to the UNIX environment and wrap access to files, applications and other tools (thus, the term "shell"). Shells are also known as command interpreters, since they accept unumly from the user and interpret them to the UNIX system. The shell allows the user to create simple commands to execute certain tasks or develop complex scripes, which can be entire programs within themselves. Depending on the system administrator,

the more may have one of the following shells:

* Retrolate - Beares Shell - The most common shell as allowed or all UNIX systems.

- /bin/csh C Shell Another popular shell designed with shell programming in mind. /bin/ksh Korn Shell An advanced version of the Bourne Shell, which incorporated many of the features of the C Shell.
- /bin/bash + Bourne Again Shell A feety available shell similar to kah but with more advanced fea-
- tures. Available from http://www.gma.org. /bin/tesh Tag C Shell Another feedy available normalizar. 0.0 grafte. Astanbabble Equilities greecom/publishes which.

To find out which shell is in use, type the following S echo SSHELL

(bin,/ksh.

Instructions to run programs are run from the com-and line prompt of the shell. The command syntax takes the following common form

command Japtions | Incommeters!

The options control how the command executes and are usually preceded with the dash sign, parameters (also known as arguments) are the data that the command will be processing. These can be numbors, words or even filterames:

- ps -ef List all the processes running on the cur-
- wc -l /etc/passwd Count the number of lines.
- in the file named interpassed.

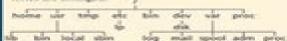
 echo SSHELL Print the value of the SHELL environment variable.

The semi-colon, ";" can be used to specify multiple community on one line:

In all a proof a who-

THE UNIX FILESYSTEM

Once logged into the account, the most common tasks will be reading e-mail, editing, running applications, writing and compiling programs, using databases, etc. All of these involve weeking with files. UNIX mes a hierarchical system to store and retrieve files using what are known as directories. The furure below shows an example of how typical UNIX systems directorriors are arrangeed.



The tree-like arrangement starts from the root," directory on downwards. Each beauch (i.e., directory) can have sub-branches (sub-directories). Finally, a directory can have individual filter (similar to lumines on beauchers). The forward slash for divide) sign, "." is used to definit each sub-directory. The combination of the directors and files comprise the UNIX file system.

When logging in to a UNIX system occurs, the soor in left in what is known as the HOME directory, which in usually soonewhere underseath several levels of subdirectories all starting from the root, "t," directory, With this pwd command, the user can tell where the some dispetory is located.

\$ prend

/home/stont/jsmith

In the previous box, the home directory of the user is the sub-directory named "junith," which also happens to be the login user id (this is normal UNIX convention). The "jamith" sub-directory is underneath the "staff" subdispetory, which is underseath the "home" sub-directory, which itself is underseath the top-most "root" directory. All files that belong to "junith" should be created inside Boomso stuff journath.

A file is a collection of data, such as an e-mail message, information from a database, images, source code, etc. The files reside underneath the user's HOME directory. UNIX allows creation of sub-directories so that the user can arrange the data in an orderly fashion for faster sytricyal Lit is much casier to have five sub-directories with 10 files in each of them than one sub-directory with 50 files). When referencing files, do so in one of three ways:

• Simple, Just the filename, which needs to reside in

- the exercent disocnory. Electrompolicy Authority and
- Absolute. Specify the entire path to a file starting from the toot? " directory: Example: https://penith/finance/lapers.ort
 - Relative. Specify the path to a file relative to the curevent sub-disoctory.

Examples finance-basics on

Working with Directories

UNIX provides the ability to move swiftly within the LINEX fillespotentic

pwd - Print the current working directory (CWD).

- . cd Return to HOME directory.
- od direame Change into the directory named dir.
- od / Change into the root directory.
- od .. . Change one directory up.
- ed . J .. . Change two directories up from the current
- · od Justilocal Change into the directory named
- isorlocal (absolute path).
 od _/trmp Change into the tmp directory, which exists one level higher.
- Creating and removing directories are done with two

mkdir dirname - Create a directory named

- dienaine in the current disactory.
- · rmdir dirname Remove the directory named direases in the current directory. The directory must be empty (i.e., no sub-directories or files within).

Listing Files and Directories

The Is command is used to list the contents of directories and the files within them. It can take a variety of options, as shown below:

8s - List contests of the current directory tooly shows the names of files and directories).

Is -a - List all files in the current directory including those that begin with " thidden filesh is -b - Force printing of non-printable characters

using octal (base-8) notation. This is useful when there are hidden characters in filenames. Is -F - Append a slash, "\" after directory, an asterick, " after each executable file (including shell scripts)

and an at-sign, "lid," after each symbolic link.

Unix Study Guide

Lisa Donald, Anil Desai, Suzan Sage London, James Chellis, Matthew Sheltz

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Table of Contents Unix Study Guide

- 1. Understanding the eBook Unix Study Guide
 - The Rise of Digital Reading Unix Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Unix Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Unix Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Unix Study Guide
 - Personalized Recommendations
 - Unix Study Guide User Reviews and Ratings
 - Unix Study Guide and Bestseller Lists
- 5. Accessing Unix Study Guide Free and Paid eBooks
 - Unix Study Guide Public Domain eBooks
 - Unix Study Guide eBook Subscription Services
 - Unix Study Guide Budget-Friendly Options
- 6. Navigating Unix Study Guide eBook Formats

- o ePub, PDF, MOBI, and More
- Unix Study Guide Compatibility with Devices
- Unix Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unix Study Guide
 - Highlighting and Note-Taking Unix Study Guide
 - Interactive Elements Unix Study Guide
- 8. Staying Engaged with Unix Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unix Study Guide
- 9. Balancing eBooks and Physical Books Unix Study Guide
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Unix Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unix Study Guide
 - Setting Reading Goals Unix Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unix Study Guide
 - Fact-Checking eBook Content of Unix Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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