File System - is the component that organizes and manages all data on a storage device Unix characteristics

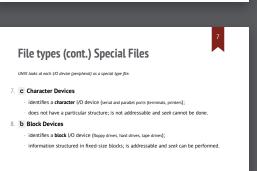
- the first OS that used the tree structure;
- current Unix systems extend it to the acyclic graph structure;
- Unix simultaneously supports multiple types of file systems (even if they belong to other OSs).

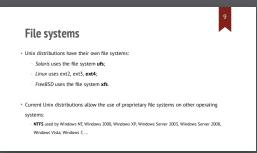
The UNIX file system Organization: files and folders Management: set of operations: read, write, create, update, delete

File types (cont.) 2. d Directories - structure: a table which contains an entry for every file that it houses; - offers the possibility of organizing the file system; - Each directory has two entries with special names: - _ _ - generic name of the folder itself;

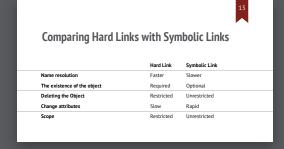
. - generic name of the parent directory

Each file system contains a primary directory called root or /.





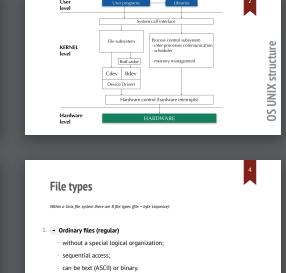




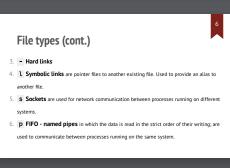


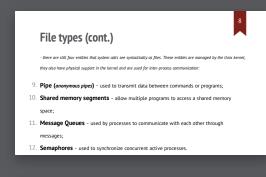


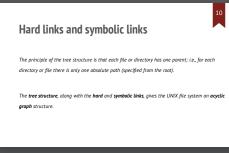


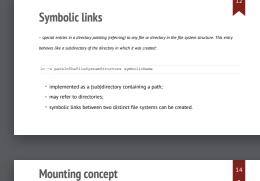


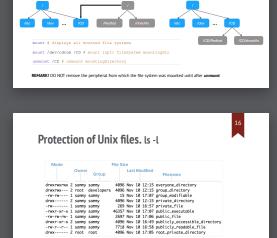
leave a feetback

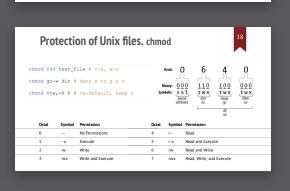


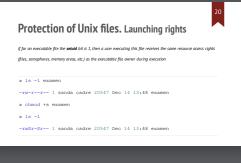


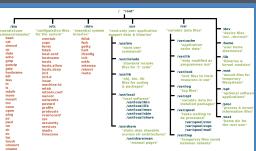












Each version of Unix has a specific structure of the upper part of the file system. The differences between

The main directories of a UNIX file system

structures are not too significant. Newer versions define additional hard links to ensure compatibility with older file systems.



The main ... UNIX directories (cont.) /home contains the home directories for the users

/lib (libraries) contains system libraries, and some critical files such as kernel modules or device drivers /proc (procfs) virtual filesystem showing information about processes as files

/sbin system binary files, being generally accessible to the system administrator /tmp storage for temporary files which are periodically removed from the filesystem

The main ... UNIX directories. /var

/war/log/ - contains system log files
/war/log/spoche2/ - contains access logs and web server errors
/war/log/spoch/ - (spool directory) contains print jobs, mail spools and other queued tasks /var/mail/ - where all the incoming mails are stored
/var/tmp - contains temporary files which should be preserved between system reboots.

- contains files that may change often

The main ... UNIX directories. /etc

- contains system configuration files; some of the most important are

/etc/passed - the user database, with flests giving information about each user
/etc/group - similar to necessars, but describes groups inteated of users
/etc/fuce - similar to necessars, but describes groups inteated of users
/etc/fuce - configuration file for 'mount'; the the fleeysterns mourted automatically at startup
/etc/fuctub- is obsolutive system configuration/initialization script
/etc/futpd/ - directory containing Apache configuration files

» grep "sanda" /etc/passwd

sanda:x:2514:575:Sanda Avram:/home/cs/cadre/sanda:/bin/bash

» grep 575 /etc/group

The main ... UNIX directories. /usr

contains executables, libraries, and shared resources that are not system critical
 /ws/bin - all binary programs distributed with the operating system not residing in /bin /bbin
 /wsr/mdusde - stores the development headers used throughout the system
 /wsr/bib - stores the required libraries and data files for programs
 /wsr/bab-ram-he manages of vinious commands
 /wsr/bab-ram-be manages of vinious commands
 /wsr/bab-ra/doc - documentation for programs installed by users
 /wsr/wz - the uncompiled source code of some programs

The End

