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# Relative and Absolute Pathnames

Absolute pathname

-A path specified from the root of the file system to the file
•A *Relative* pathname
-A pathname specified from the cwd
•Note: '.' (dot) and '..' (dotdot) refer to current and parent directory
Example: cwd = /home/kevine
../.etc/passwd
/etc/passwd
./kevine/../././etc/passwd

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## Nice properties of UNIX naming

Simple, regular format

-Names referring to different servers, objects, etc., have the same syntax.

 Regular tools can be used where specialised tools would be otherwise be needed.

#### Location independent

-Objects can be distributed or migrated, and continue with the same names.

Where is /home/kevine/.profile?

You only need to know the name!

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# Access Rights

### •Owners

Has all rights previously listed
May grant rights to others using the following classes of users
Specific user
User groups
All for public files

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### **Simultaneous Access**

•Most OSes provide mechanisms for users to manage concurrent access to files

-Example: flock(), lockf(), system calls

Typically

-User may lock entire file when it is to be updated -User may lock the individual records (i.e. ranges) during the update

•Mutual exclusion and deadlock are issues for shared access