

NAME

ls - list contents of directory

SYNOPSIS

ls [**-ltasdr**] name ...

DESCRIPTION

For each directory argument, *ls* lists the contents of the directory; for each file argument, *ls* repeats its name and any other information requested. The output is sorted alphabetically by default. When no argument is given, the current directory is listed. When several arguments are given, the arguments are first sorted appropriately, but file arguments appear before directories and their contents. There are several options:

- l** list in long format, giving mode, number of links, owner, size in bytes, and time of last modification for each file. (See below.)
- t** sort by time modified (latest first) instead of by name, as is normal
- a** list all entries; usually those beginning with '.' are suppressed
- s** give size in blocks for each entry
- d** if argument is a directory, list only its name, not its contents (mostly used with **-l** to get status on directory)
- r** reverse the order of sort to get reverse alphabetic or oldest first as appropriate
- u** use time of last access instead of last modification for sorting (**-t**) or printing (**-l**)

The mode printed under the **-l** option contains 10 characters which are interpreted as follows: the first character is

- d** if the entry is a directory;
- b** if the entry is a block-type special file;
- c** if the entry is a character-type special file;
- if the entry is a plain file.

The next 9 characters are interpreted as three sets of three bits each. The first set refers to owner permissions; the next to permissions to others in the same user-group; and the last to all others. Within each set the three characters indicate permission respectively to read, to write, or to execute the file as a program. For a directory, 'execute' permission is interpreted to mean permission to search the directory for a specified file. The permissions are indicated as follows:

- r** if the file is readable
- w** if the file is writable
- x** if the file is executable
- if the indicated permission is not granted

Finally, the group-execute permission character is given as **s** if the file has set-group-ID mode; likewise the user-execute permission character is given as **s** if the file has set-user-ID mode.

FILES

/etc/passwd to get user ID's for **ls -l**.

BUGS