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IEEE P1003.2b Draft 2 − December 1991

4.39 `ls` — List directory contents

⇒ **4.39.1 `ls` Synopsis.** *Modify the Synopsis to be:*

`ls [−CFLRacdilqrtu1][`*file* . . . `]`

⇒ **4.39.3 `ls` Options.** *Replace the description of the* `−F` *option with the following:*

`−F` Write a slash (`/`) immediately after each pathname that is a directory, an asterisk (∗) after each that is executable, a vertical bar (`|`) after each that is a FIFO , and an at-sign (@) after each that is a symbolic link.

⇒ **4.39.3 `ls` Options.** *Add the following option in the proper sorted order:*

`−L` When a symbolic link is encountered, write the name of the file or directory the link refers to, rather than the name of the link itself.

⇒ **4.39.6.1 `ls` Standard Output.** *Replace the six-line description of* `−l` *(beginning with* ‘‘If the −l option is specified, . . . ’’*)with:*

If the `−l` option is specified without `−L`, the following information shall be written:

`"%s %u %s %s %u %s %s\n"`, *<file mode>* , *<number of links>* , *<owner name>* , *<group name>* , *<number of bytes in the file>*, *<date and time>* , *<pathname>*

If the file is a symbolic link, this information shall be about the link itself and the *<pathname>* field shall be of the form:

`"%s -> %s"`, *<name of link>* , *<contents of link>*

If both `−l` and `−L` are specified, the following information shall be written:

`"%s %u %s %s %u %s %s\n"`, *<file mode>* , *<number of links>* , *<owner name>* , *<group name>* , *<number of bytes in the file>*, *<date and time>* , *<pathname of link>*

where all fields except *<pathname of link>* shall be for the file resolved from the symbolic link.

In both of the preceding `−l` forms, if *<owner name>* or *<group name>* cannot be determined, they shall be replaced with their associated numeric values using the format `"%u"`.

⇒ **4.39.6.1 `ls` Standard Output.** *Add the following to the list of <entry type> characters:*

`l` (ell) Symbolic link

4.43 `mv` — Move files

⇒ **4.43.2 `mv` Description.** *Replace the first two paragraphs of the Description with:*

In the first synopsis form, the `mv` utility shall move the file named by the *source_file* operand to the *destination* specified by the *target_file*. This first synopsis form is assumed when the final operand does not name an existing directory and is not a symbolic link referring to an existing directory.

In the second synopsis form, `mv` shall move each file named by a *source_file* operand to a *destination* file in the existing directory named by the *target_dir* operand, or referenced if *target_dir* is a symbolic link. The *destination* path for each *source_file* shall be the concatenation of the target directory, a single slash character, and the last pathname component of the *source_file*. This second form is assumed when the final operand names an existing directory.

⇒ **4.43.2 `mv` Description.** *Replace the first sentence of item (5) with:*

The file hierarchy rooted in *source_file* shall be duplicated as a file hierarchy rooted in the destination path. If *source_file* or any of the files below it in the hierarchy are symbolic links, the links themselves shall be moved, rather than any files they refer to.

Editor's Note: The following rationale will be added to E.4.43, but is kept here with `mv` for this draft:

`mv` Rationale. *(This subclause is not a part of P1003.2b)*

When `mv` is dealing with a single file system and *source_file* is a symbolic link, the link itself is moved as a consequence of the dependence on the POSIX.1 {8} *rename*() functionality, per the Description. Across file systems, this has to be made explicit.