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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'mkfifo.1p' command***

**\$ man mkfifo.1p**

MKFIFO(1P)                    POSIX Programmer's Manual                    MKFIFO(1P)

### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

### NAME

mkfifo ? make FIFO special files

### SYNOPSIS

mkfifo [-m mode] file...

### DESCRIPTION

The mkfifo utility shall create the FIFO special files specified by the operands, in the order specified.

For each file operand, the mkfifo utility shall perform actions equivalent to the mkfifo() function defined in the System Interfaces volume of POSIX.1?2017, called with the following arguments:

1. The file operand is used as the path argument.
2. The value of the bitwise-inclusive OR of S\_IRUSR, S\_IWUSR, S\_IRGRP, S\_IWGRP, S\_IROTH, and S\_IWOTH is used as the mode argument. (If the -m option is specified, the value of the mkfifo() mode argument is unspecified, but the FIFO shall at no time have permissions less restrictive than the -m mode option-argument.)

### OPTIONS

The `mkfifo` utility shall conform to the Base Definitions volume of POSIX.1?2017, Section 12.2, Utility Syntax Guidelines.

The following option shall be supported:

`-m mode` Set the file permission bits of the newly-created FIFO to the specified `mode` value. The mode option-argument shall be the same as the mode operand defined for the `chmod` utility. In the `symbolic_mode` strings, the `op` characters '+' and '-' shall be interpreted relative to an assumed initial `mode` of `a=rw`.

## OPERANDS

The following operand shall be supported:

`file` A pathname of the FIFO special file to be created.

## STDIN

Not used.

## INPUT FILES

None.

## ENVIRONMENT VARIABLES

The following environment variables shall affect the execution of `mk?`

`fifo`:

`LANG` Provide a default value for the internationalization variables that are unset or null. (See the Base Definitions volume of POSIX.1?2017, Section 8.2, Internationalization Variables for the precedence of internationalization variables used to determine the values of locale categories.)

`LC_ALL` If set to a non-empty string value, override the values of all the other internationalization variables.

`LC_CTYPE` Determine the locale for the interpretation of sequences of bytes of text data as characters (for example, single-byte as opposed to multi-byte characters in arguments).

## LC\_MESSAGES

Determine the locale that should be used to affect the format and contents of diagnostic messages written to standard error.

NLSPATH Determine the location of message catalogs for the processing of LC\_MESSAGES.

## ASYNCHRONOUS EVENTS

Default.

## STDOUT

Not used.

## STDERR

The standard error shall be used only for diagnostic messages.

## OUTPUT FILES

None.

## EXTENDED DESCRIPTION

None.

## EXIT STATUS

The following exit values shall be returned:

- 0 All the specified FIFO special files were created successfully.
- >0 An error occurred.

## CONSEQUENCES OF ERRORS

Default.

The following sections are informative.

## APPLICATION USAGE

None.

## EXAMPLES

None.

## RATIONALE

This utility was added to permit shell applications to create FIFO special files.

The `-m` option was added to control the file mode, for consistency with the similar functionality provided by the `mkdir` utility.

Early proposals included a `-p` option similar to the `mkdir -p` option that created intermediate directories leading up to the FIFO specified by the final component. This was removed because it is not commonly needed and is not common practice with similar utilities.

The functionality of `mkfifo` is described substantially through a refer?

ence to the `mkfifo()` function in the System Interfaces volume of POSIX.1-2017. For example, by default, the mode of the FIFO file is affected by the file mode creation mask in accordance with the specified behavior of the `mkfifo()` function. In this way, there is less duplication of effort required for describing details of the file creation.

#### FUTURE DIRECTIONS

None.

#### SEE ALSO

`chmod`, `umask`

The Base Definitions volume of POSIX.1-2017, Chapter 8, Environment Variables, Section 12.2, Utility Syntax Guidelines

The System Interfaces volume of POSIX.1-2017, `mkfifo()`

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