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Rocky Enterprise Linux 9.2 Manual Pages on command 'lp.4'

\$ man lp.4

LP(4) Linux Programmer's Manual LP(4)

NAME

lp - line printer devices

SYNOPSIS

```
#include <linux/lp.h>
```

CONFIGURATION

lp[0?2] are character devices for the parallel line printers; they have major number 6 and minor number 0?2. The minor numbers correspond to the printer port base addresses 0x03bc, 0x0378, and 0x0278. Usually they have mode 220 and are owned by user root and group lp. You can use printer ports either with polling or with interrupts. Interrupts are recommended when high traffic is expected, for example, for laser printers. For typical dot matrix printers, polling will usually be enough. The default is polling.

DESCRIPTION

The following ioctl(2) calls are supported:

```
int ioctl(int fd, LPTIME, int arg)
```

Sets the amount of time that the driver sleeps before rechecking

the printer when the printer's buffer appears to be filled to arg. If you have a fast printer, decrease this number; if you have a slow printer, then increase it. This is in hundredths of a second, the default 2 being 0.02 seconds. It influences only the polling driver.

`int ioctl(int fd, LPCHAR, int arg)`

Sets the maximum number of busy-wait iterations which the polling driver does while waiting for the printer to get ready for receiving a character to arg. If printing is too slow, increase this number; if the system gets too slow, decrease this number. The default is 1000. It influences only the polling driver.

`int ioctl(int fd, LPABORT, int arg)`

If arg is 0, the printer driver will retry on errors, otherwise it will abort. The default is 0.

`int ioctl(int fd, LPABORTOPEN, int arg)`

If arg is 0, `open(2)` will be aborted on error, otherwise error will be ignored. The default is to ignore it.

`int ioctl(int fd, LPCAREFUL, int arg)`

If arg is 0, then the out-of-paper, offline, and error signals are required to be false on all writes, otherwise they are ignored. The default is to ignore them.

`int ioctl(int fd, LPWAIT, int arg)`

Sets the number of busy waiting iterations to wait before strobing the printer to accept a just-written character, and the number of iterations to wait before turning the strobe off again, to arg. The specification says this time should be 0.5 milliseconds, but experience has shown the delay caused by the code is already enough. For that reason, the default value is 0. This is used for both the polling and the interrupt driver.

`int ioctl(int fd, LPSETIRQ, int arg)`

This `ioctl(2)` requires superuser privileges. It takes an integer containing the new IRQ as argument. As a side effect, the

printer will be reset. When arg is 0, the polling driver will be used, which is also default.

```
int ioctl(int fd, LPGETIRQ, int *arg)
```

Stores the currently used IRQ in arg.

```
int ioctl(int fd, LPGETSTATUS, int *arg)
```

Stores the value of the status port in arg. The bits have the following meaning:

LP_PBUSY inverted busy input, active high

LP_PACK unchanged acknowledge input, active low

LP_POUTPA unchanged out-of-paper input, active high

LP_PSELECD unchanged selected input, active high

LP_PERRORP unchanged error input, active low

Refer to your printer manual for the meaning of the signals.

Note that undocumented bits may also be set, depending on your printer.

```
int ioctl(int fd, LPRESET)
```

Resets the printer. No argument is used.

FILES

/dev/lp*

SEE ALSO

chmod(1), chown(1), mknod(1), lpcntl(8), tunelp(8)

COLOPHON

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