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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'setbuf.3p' command

\$ man setbuf.3p

SETBUF(3P) POSIX Programmer's Manual SETBUF(3P)

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

setbuf ? assign buffering to a stream

SYNOPSIS

```
#include <stdio.h>

void setbuf(FILE *restrict stream, char *restrict buf);
```

DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

Except that it returns no value, the function call:

```
setbuf(stream, buf)
```

shall be equivalent to:

```
setvbuf(stream, buf, _IOFBF, BUFSIZ)
```

if buf is not a null pointer, or to:

```
setvbuf(stream, buf, _IONBF, BUFSIZ)
```

if buf is a null pointer.

RETURN VALUE

The `setbuf()` function shall not return a value.

ERRORS

Although the `setvbuf()` interface may set `errno` in defined ways, the value of `errno` after a call to `setbuf()` is unspecified.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

A common source of error is allocating buffer space as an "automatic" variable in a code block, and then failing to close the stream in the same block.

With `setbuf()`, allocating a buffer of `BUFSIZ` bytes does not necessarily imply that all of `BUFSIZ` bytes are used for the buffer area.

Since `errno` is not required to be unchanged on success, in order to correctly detect and possibly recover from errors, applications should use `setvbuf()` instead of `setbuf()`.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

Section 2.5, Standard I/O Streams, `fopen()`, `setvbuf()`

The Base Definitions volume of POSIX.1-2017, `<stdio.h>`

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