V4L2 write()

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\(linux-master)(Documentation)(userspace-api)(media)(v4l)func-write.rst, line 2)

Unknown directive type "c:namespace".

```
.. c:namespace:: V4L
```

Name

v4l2-write - Write to a V4L2 device

Synopsis

```
#include <unistd.h>
```

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Unknown directive type "c:function".

```
.. c:function:: ssize_t write( int fd, void *buf, size_t count )
```

Arguments

`fd`

File descriptor returned by :c:func:`open()`.

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Unknown interpreted text role "c:func".

`buf`

Buffer with data to be written

`count`

Number of bytes at the buffer

Description

:c:func:`write()` writes up to `count` bytes to the device referenced by the file descriptor `fd` from the buffer starting at `buf`. When the hardware outputs are not active yet, this function enables them. When `count` is zero, :c:func:`write()` returns 0 without any other effect.

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When the application does not provide more data in time, the previous video frame, raw VBI image, sliced VPS or WSS data is displayed again. Sliced Teletext or Closed Caption data is not repeated, the driver inserts a blank line instead.

Return Value

On success, the number of bytes written are returned. Zero indicates nothing was written. On error, -1 is returned, and the `errno` variable is set appropriately. In this case the next write will start at the beginning of a new frame. Possible error codes are:

EAGAIN

Non-blocking I/O has been selected using the :ref:`O_NONBLOCK <func-open>` flag and no buffer space was available to write the data immediately.

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Unknown interpreted text role "ref".

EBADF

`fd` is not a valid file descriptor or is not open for writing.

EBUSY

The driver does not support multiple write streams and the device is already in use.

EFAULT

`buf` references an inaccessible memory area.

EINTR

The call was interrupted by a signal before any data was written.

EIO

I/O error. This indicates some hardware problem.

EINVAL

The :c:func:`write()` function is not supported by this driver, not on this device, or generally not on this type of device.

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