

ioctl VIDIOC_PREPARE_BUF

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

Unknown directive type "c.namespace".

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

Name

VIDIOC_PREPARE_BUF - Prepare a buffer for I/O

Synopsis

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Unknown directive type "c.macro".

```
.. c:macro:: VIDIOC_PREPARE_BUF
```

```
int ioctl(int fd, VIDIOC_PREPARE_BUF, struct v4l2_buffer *argp)
```

Arguments

fd

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

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argp

Pointer to struct `:c:type:`v4l2_buffer``.

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Description

Applications can optionally call the `:ref:`VIDIOC_PREPARE_BUF`` ioctl to pass ownership of the buffer to the driver before actually enqueueing it, using the `:ref:`VIDIOC_QBUF <VIDIOC_QBUF>` ioctl, and to prepare it for future I/O. Such preparations may include cache invalidation or cleaning. Performing them in advance saves time during the actual I/O.

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The struct `:ctype:`v4l2_buffer`` structure is specified in `ref:`buffer``.

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Return Value

On success 0 is returned, on error -1 and the `errno` variable is set appropriately. The generic error codes are described at the `ref:`Generic Error Codes <gen-errors>`` chapter.

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EBUSY

File I/O is in progress.

EINVAL

The buffer `type` is not supported, or the `index` is out of bounds, or no buffers have been allocated yet, or the `userptr` or `length` are invalid.