ioctl DMX EXPBUF

```
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master\Documentation\userspace-api\media\dvb\(linux-master) (Documentation) (userspace-
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Unknown directive type "c:namespace".
.. c:namespace:: DTV.dmx
```

Name

DMX EXPBUF - Export a buffer as a DMABUF file descriptor.

```
Warning
```

this API is still experimental

Synopsis

```
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.. c:macro:: DMX_EXPBUF
```

int ioctl(int fd, DMX EXPBUF, struct dmx exportbuffer *argp)

Arguments

fd

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

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argp

Pointer to struct :c:type:'dmx_exportbuffer'.

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Description

This ioctl is an extension to the memory mapping I/O method. It can be used to export a buffer as a DMABUF file at any time after buffers have been allocated with the ref":DMX_REQBUFS ioctl.

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To export a buffer, applications fill struct :c:type:'dmx_exportbuffer'. Applications must set the index field. Valid index numbers range from zero to the number of buffers allocated with ref.'DMX_REQBUFS' (struct :c:type:'dmx_requestbuffers' count) minus one. Additional flags may be posted in the flags field. Refer to a manual for open() for details. Currently only O_CLOEXEC, O_RDONLY, O_WRONLY, and O_RDWR are supported. All other fields must be set to zero. In the case of multi-planar API, every plane is exported separately using multiple :ref.'DMX_EXPBUF' calls.

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After calling ref DMX_EXPBUF the fd field will be set by a driver, on success. This is a DMABUF file descriptor. The application may pass it to other DMABUF-aware devices. It is recommended to close a DMABUF file when it is no longer used to allow the associated memory to be reclaimed.

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Examples

```
int buffer_export(int v4lfd, enum dmx_buf_type bt, int index, int *dmafd)
{
    struct dmx_exportbuffer expbuf;

    memset(&expbuf, 0, sizeof(expbuf));
    expbuf.type = bt;
    expbuf.index = index;
    if (ioctl(v4lfd, DMX_EXPBUF, &expbuf) == -1) {
        perror("DMX_EXPBUF");
        return -1;
    }

    *dmafd = expbuf.fd;

    return 0;
}
```

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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EINVAL

A queue is not in MMAP mode or DMABUF exporting is not supported or ${\tt flags}$ or ${\tt index}$ fields are invalid.