

ioctl DMX_EXPBUF

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\linux-master [Documentation] [userspace-api] [media] [dvb]dmx-expbuf.rst, line 2)

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\linux-master [Documentation] [userspace-api] [media] [dvb]dmx-expbuf.rst, line 20)

Unknown directive type "c:macro".

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

```
int ioctl(int fd, DMX_EXPBUF, struct dmx_exportbuffer *argp)
```

Arguments

fd

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\linux-master [Documentation] [userspace-api] [media] [dvb]dmx-expbuf.rst, line 28); [backlink](#)

Unknown interpreted text role "c:func".

argp

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\linux-master [Documentation] [userspace-api] [media] [dvb]dmx-expbuf.rst, line 31); [backlink](#)

Unknown interpreted text role "c:type".

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\linux-master [Documentation] [userspace-api] [media] [dvb]dmx-expbuf.rst, line 36); [backlink](#)

Unknown interpreted text role "ref".

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 40); [backlink](#)

Unknown interpreted text role "c:type".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 40); [backlink](#)

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 40); [backlink](#)

Unknown interpreted text role "c:type".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 40); [backlink](#)

Unknown interpreted text role "ref".

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 51); [backlink](#)

Unknown interpreted text role "ref".

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dmx-expbuf.rst, line 81); [backlink](#)

Unknown interpreted text role "ref".

EINVAL

A queue is not in MMAP mode or DMABUF exporting is not supported or `flags` or `index` fields are invalid.