Digital TV frontend 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]frontend_f_open.rst, line 2)
Unknown directive type "cnamespace".
.. c:namespace:: DTV.fe
```

Name

fe-open - Open a frontend device

Synopsis

```
#include <fcntl.h>
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-
api][media][dvb]frontend_f_open.rst, line 22)
Unknown directive type "c:function".

.. c:function:: int open( const char *device_name, int flags )
```

Arguments

device name

Device to be opened.

flags

Open flags. Access can either be o RDWR or o RDONLY.

Multiple opens are allowed with O_RDONLY. In this mode, only query and read ioctls are allowed.

Only one open is allowed in O RDWR. In this mode, all loctls are allowed.

When the <code>O_NONBLOCK</code> flag is given, the system calls may return <code>EAGAIN</code> error code when no data is available or when the device driver is temporarily busy.

Other flags have no effect.

Description

This system call opens a named frontend device (/dev/dvb/adapter?/frontend?) for subsequent use. Usually the first thing to do after a successful open is to find out the frontend type with ref. FE_GET_INFO'.

```
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Unknown interpreted text role 'ref'.

The device can be opened in read-only mode, which only allows monitoring of device status and statistics, or read/write mode, which allows any kind of use (e.g. performing tuning operations.)

In a system with multiple front-ends, it is usually the case that multiple devices cannot be open in read/write mode simultaneously. As long as a front-end device is opened in read/write mode, other open() calls in read/write mode will either fail or block, depending on whether non-blocking or blocking mode was specified. A front-end device opened in blocking mode can later be put into non-blocking mode (and vice versa) using the F_SETFL command of the fentl system call. This is a standard system call, documented in the Linux manual page for fentl. When an open() call has succeeded, the device will be ready for use in the specified mode. This implies that the corresponding hardware is powered up, and that other front-ends may have been powered down to make that possible.

Return Value

On success :c:func:'open()' returns the new file descriptor. On error, -1 is returned, and the errno variable is set appropriately.

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Unknown interpreted text role "c:func".

Possible error codes are:

On success 0 is returned, and :c:type:'ca_slot_info' is filled.

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Unknown interpreted text role "c:type".

On error -1 is returned, and the errno variable is set appropriately.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] frontend_f_open.rst, line 83)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{2.5cm}|p{15.0cm}|
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] frontend_f_open.rst, line 85)

Unknown directive type "flat-table".

```
.. flat-table::
    :header-rows: 0
    :stub-columns: 0
    :widths: 1 16

- - ``EPERM``
    - The caller has no permission to access the device.

- - ``EBUSY``
    - The the device driver is already in use.

- - ``EMFILE``
    - The process already has the maximum number of files open.

- - ``ENFILE``
    - The limit on the total number of files open on the system has been reached.
```

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] frontend_f_open.rst, line 103); backlink

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