ioctl FE_SET_PROPERTY, FE_GET_PROPERTY

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\(linux-master)(Documentation)(userspace-api)(media)(dvb)fe-get-property.rst`, **line 2**)
>
> Unknown directive type "c:namespace".
>
> ```
>     .. c:namespace:: DTV.fe
> ```

Name

FE_SET_PROPERTY - FE_GET_PROPERTY - FE_SET_PROPERTY sets one or more frontend properties. - FE_GET_PROPERTY returns one or more frontend properties.

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)fe-get-property.rst`, **line 18**)
>
> Unknown directive type "c:macro".
>
> ```
>     .. c:macro:: FE_GET_PROPERTY
> ```

```
int ioctl(int fd, FE_GET_PROPERTY, struct dtv_properties *argp)
```

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\(linux-master)(Documentation)(userspace-api)(media)(dvb)fe-get-property.rst`, **line 22**)
>
> Unknown directive type "c:macro".
>
> ```
>     .. c:macro:: FE_SET_PROPERTY
> ```

```
int ioctl(int fd, FE_SET_PROPERTY, struct dtv_properties *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)fe-get-property.rst`, **line 30**); *backlink*
> >
> > Unknown interpreted text role "c:func".

`argp`

> Pointer to struct :c:type:`dtv_properties`.
>
> > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\(linux-master)(Documentation)(userspace-api)(media)(dvb)fe-get-property.rst`, **line 33**); *backlink*
> >
> > Unknown interpreted text role "c:type".

Description

All Digital TV frontend devices support the `FE_SET_PROPERTY` and `FE_GET_PROPERTY` ioctls. The supported properties and statistics depends on the delivery system and on the device:

- `FE_SET_PROPERTY:`
  - This ioctl is used to set one or more frontend properties.
  - This is the basic command to request the frontend to tune into some frequency and to start decoding the digital TV signal.
  - This call requires read/write access to the device.

> **Note**
>
> At return, the values aren't updated to reflect the actual parameters used. If the actual parameters are needed, an explicit call to `FE_GET_PROPERTY` is needed.

- `FE_GET_PROPERTY:`
  - This ioctl is used to get properties and statistics from the frontend.
  - No properties are changed, and statistics aren't reset.
  - This call only requires read-only access to the device.

Return Value

On success 0 is returned.

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

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)fe-get-property.rst`, line 74);** *backlink*
>
> Unknown interpreted text role "ref".