ioctl VIDIOC_DV_TIMINGS_CAP, VIDIOC SUBDEV DV TIMINGS CAP

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]vidioc-dv-timings-cap.rst, line 2)
Unknown directive type "cnamespace".

.. c:namespace:: V4L

Name

VIDIOC_DV_TIMINGS_CAP - VIDIOC_SUBDEV_DV_TIMINGS_CAP - The capabilities of the Digital Video receiver/transmitter

Synopsis

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master] [Documentation] [userspace-api] [media] [v41] vidioc-dv-timings-cap.rst, line 18)

Unknown directive type "c:macro".

... c:macro:: VIDIOC_DV_TIMINGS_CAP
```

int ioctl(int fd, VIDIOC DV TIMINGS CAP, struct v412 dv timings cap *argp)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linuxmaster\Documentation\userspace-api\media\v41\[linux-master][Documentation][userspaceapi][media][v41]vidioc-dv-timings-cap.rst, line 22)
Unknown directive type "cmacro".

.. c:macro:: VIDIOC_SUBDEV_DV_TIMINGS_CAP

int ioctl(int fd, VIDIOC_SUBDEV_DV_TIMINGS_CAP, struct v412_dv_timings_cap *argp)

Arguments

fd

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

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Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:'v412_dv_timings_cap'.

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Unknown interpreted text role "c:type".

Description

To query the capabilities of the DV receiver/transmitter applications initialize the pad field to 0, zero the reserved array of struct catype: v412 dv timings cap` and call the VIDIOC DV TIMINGS CAP ioctl on a video node and the driver will fill in the structure.

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Note

Drivers may return different values after switching the video input or output.

When implemented by the driver DV capabilities of subdevices can be queried by calling the <code>VIDIOC_SUBDEV_DV_TIMINGS_CAP</code> ioctl directly on a subdevice node. The capabilities are specific to inputs (for DV receivers) or outputs (for DV transmitters), applications must specify the desired pad number in the struct :ctype: <code>v4l2_dv_timings_cap</code> pad field and zero the reserved array. Attempts to query capabilities on a pad that doesn't support them will return an <code>EINVAL</code> error code.

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{1.2cm}|p{3.2cm}|p{12.9cm}|
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master] [Documentation] [userspace-api] [media] [v41] vidioc-dv-timings-cap.rst, line 60)

Unknown directive type "c:type".

```
.. c:type:: v412_bt_timings_cap
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v412 bt timings cap
    :header-rows: 0
    :stub-columns: 0
                    1 1 2
    :widths:
      - _u32
- ``min width``
      - Minimum width of the active video in pixels.
      - __u32
- ``max width``
      - Maximum width of the active video in pixels.
    * - _u32
- ``min_height``
      - Minimum height of the active video in lines.
    * - __u32
- ``max_height``
      - Maximum height of the active video in lines.
          u64
     - ``min pixelclock``
      - Minimum pixelclock frequency in Hz.
    * - <u>u</u>64
```

```
- ``max_pixelclock``
- Maximum pixelclock frequency in Hz.

* - u32
- ``standards``
- The video standard(s) supported by the hardware. See
    :ref:`dv-bt-standards` for a list of standards.

* - u32
- ``capabilities``
- Several flags giving more information about the capabilities. See
    :ref:`dv-bt-cap-capabilities` for a description of the flags.

* - u32
- ``reserved``\ [16]
- Reserved for future extensions.
    Drivers must set the array to zero.
```

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Unknown directive type "tabularcolumns".

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.. tabularcolumns:: |p{4.4cm}|p{3.6cm}|p{9.3cm}|
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master][Documentation][userspace-api][media][v41]vidioc-dv-timings-cap.rst, line 101)

Unknown directive type "c:type".

```
.. c:type:: v4l2 dv timings cap
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master] [Documentation] [userspace-api] [media] [v41] vidioc-dv-timings-cap.rst, line 103)

Unknown directive type "flat-table".

```
.. flat-table:: struct v412 dv timings cap
   :header-rows: 0
    :stub-columns: 0
   :widths:
         u32
     - ``type``
      - Type of DV timings as listed in :ref:`dv-timing-types`.
   * - __u32
- ``pad`
      - Pad number as reported by the media controller API. This field is
       only used when operating on a subdevice node. When operating on a
       video node applications must set this field to zero.
   * - __u32
- ``reserved``\ [2]
      - Reserved for future extensions.
       Drivers and applications must set the array to zero.
   * - union {
      - (anonymous)
    * - struct :c:type:`v412_bt_timings_cap`
     - ``bt`
      - BT.656/1120 timings capabilities of the hardware.
         u32
     - ``raw_data``\ [32]
    * - }
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master] [Documentation] [userspace-api] [media] [v41] vidioc-dv-timings-cap.rst, line 131)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{7.2cm}|p{10.3cm}|
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\v41\[linux-master][Documentation][userspace-
api] [media] [v41] vidioc-dv-timings-cap.rst, line 135)
Unknown directive type "flat-table".
    .. flat-table:: DV BT Timing capabilities
        :header-rows: 0
        :stub-columns: 0
        * - Flag
          - Description
        * - ``V4L2 DV_BT_CAP_INTERLACED`
          - Interlaced formats are supported.
        * - ``V4L2 DV BT CAP PROGRESSIVE`
          - Progressive formats are supported.
        * - ``V4L2 DV BT CAP REDUCED BLANKING`
          - CVT/GTF specific: the timings can make use of reduced blanking
        (CVT) or the 'Secondary GTF' curve (GTF).
* - ``V4L2_DV_BT_CAP_CUSTOM``
          - Can support non-standard timings, i.e. timings not belonging to the standards set in the ``standards`` field.
```

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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