ioctl VIDIOC_ENUM_DV_TIMINGS, VIDIOC SUBDEV ENUM DV TIMINGS

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.. c:namespace:: V4L

Name

VIDIOC ENUM DV TIMINGS - VIDIOC SUBDEV ENUM DV TIMINGS - Enumerate supported Digital Video timings

Synopsis

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.. c:macro:: VIDIOC ENUM DV TIMINGS

int ioctl(int fd, VIDIOC ENUM DV TIMINGS, struct v412 enum dv timings *argp)

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-enum-dv-timings.rst, line 22)

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.. c:macro:: VIDIOC_SUBDEV_ENUM_DV_TIMINGS

int ioctl(int fd, VIDIOC SUBDEV ENUM DV TIMINGS, struct v412 enum dv timings *argp)

Arguments

fd

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

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argp

Pointer to struct :c:type:'v412 enum dv_timings'.

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Description

While some DV receivers or transmitters support a wide range of timings, others support only a limited number of timings. With this ioctl applications can enumerate a list of known supported timings. Call ref" VIDIOC_DV_TIMINGS_CAP to check if it also supports other standards or even custom timings that are not in this list.

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To query the available timings, applications initialize the <code>index</code> field, set the <code>pad</code> field to 0, zero the reserved array of struct <code>c.type:'v4l2_enum_dv_timings'</code> and call the <code>VIDIOC_ENUM_DV_TIMINGS</code> ioctl on a video node with a pointer to this structure. Drivers fill the rest of the structure or return an <code>EINVAL</code> error code when the index is out of bounds. To enumerate all supported DV timings, applications shall begin at index zero, incrementing by one until the driver returns <code>EINVAL</code>.

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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-enum-dv-timings.rst, line 45); backlink

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Note

Drivers may enumerate a different set of DV timings after switching the video input or output.

When implemented by the driver DV timings of subdevices can be queried by calling the <code>VIDIOC_SUBDEV_ENUM_DV_TIMINGS</code> ioctl directly on a subdevice node. The DV timings are specific to inputs (for DV receivers) or outputs (for DV transmitters), applications must specify the desired pad number in the struct :c:type:\v4!2_enum_dv_timings\`pad field. Attempts to enumerate timings on a pad that doesn't support them will return an <code>EINVAL</code> error code.

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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-enum-dv-timings.rst, line 59); backlink
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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-enum-dv-timings.rst, line 68)

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.. c:type:: v412_enum_dv_timings
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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-enum-dv-timings.rst, line 70)

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.. flat-table:: struct v412_enum_dv_timings

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- ``pad``
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- 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.
- * struct :c:type:`v4l2_dv_timings`
 - ``timings`
 - The timings.

Return Value

On success 0 is returned, on error -1 and the error variable is set appropriately. The generic error codes are described at the ref. Generic Error Codes <gen-errors>' chapter.

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EINVAL

The struct :c:type: v412 enum dv timings' index is out of bounds or the pad number is invalid.

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

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ENODATA

Digital video presets are not supported for this input or output.