ioctl VIDIOC_ENCODER_CMD, VIDIOC TRY ENCODER CMD

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-encoder-cmd.rst, line 2)

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.. c:namespace:: V4L

Name

VIDIOC ENCODER CMD - VIDIOC TRY ENCODER CMD - Execute an encoder command

Synopsis

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.. c:macro:: VIDIOC ENCODER CMD

int ioctl(int fd, VIDIOC ENCODER CMD, struct v412 encoder cmd *argp)

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.. c:macro:: VIDIOC_TRY_ENCODER_CMD

int ioctl(int fd, VIDIOC TRY ENCODER CMD, struct v412 encoder cmd *argp)

Arguments

fd

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

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argp

Pointer to struct :c:type:\u00e4v412 encoder cmd\u00e4.

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Description

These ioctls control an audio/video (usually MPEG-) encoder. VIDIOC ENCODER CMD sends a command to the encoder,

VIDIOC TRY ENCODER CMD can be used to try a command without actually executing it.

To send a command applications must initialize all fields of a struct :c:type:`v4l2_encoder_cmd` and call VIDIOC_ENCODER_CMD or VIDIOC TRY ENCODER CMD with a pointer to this structure.

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The cmd field must contain the command code. Some commands use the flags field for additional information.

After a STOP command, :c:func:`read()` calls will read the remaining data buffered by the driver. When the buffer is empty, :c:func:`read()` will return zero and the next :c:func:`read()` call will restart the encoder.

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A :c:fimc:'read()' or :ref:'VIDIOC_STREAMON < VIDIOC_STREAMON > 'call sends an implicit START command to the encoder if it has not been started yet. Applies to both queues of mem2mem encoders.

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A :c:func:`close()` or :ref.`VIDIOC_STREAMOFF <VIDIOC_STREAMON>` call of a streaming file descriptor sends an implicit immediate STOP to the encoder, and all buffered data is discarded. Applies to both queues of mem2mem encoders.

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These ioctls are optional, not all drivers may support them. They were introduced in Linux 2.6.21. They are, however, mandatory for stateful mem2mem encoders (as further documented in ref. encoder).

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.. c:type:: v4l2 encoder cmd
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is initiated with the ``V4L2 ENC CMD STOP`` command, it must be driven to completion before this command can be invoked. Any attempt to invoke the command while the drain sequence is in progress will trigger an ``EBUSY`` error code. See :ref: `encoder` for more details. * - ``V4L2_ENC_CMD_STOP` - Stop the encoder. When the ``V4L2 ENC CMD STOP AT GOP END`` flag is set, encoding will continue until the end of the current *Group Of Pictures*, otherwise encoding will stop immediately. When the encoder is already stopped, this command does nothing. For a device implementing the :ref:`encoder`, the command will initiate the drain sequence as documented in :ref:`encoder`. No flags or other arguments are accepted in this case. Any attempt to invoke the command again before the sequence completes will trigger an ``EBUSY`` error code. * - ``V4L2 ENC CMD_PAUSE`` - 2 - Pause the encoder. When the encoder has not been started yet, the driver will return an ``EPERM`` error code. When the encoder is already paused, this command does nothing. No flags are defined for this command. * - ``V4L2_ENC_CMD_RESUME`` - 3 - Resume encoding after a PAUSE command. When the encoder has not been started yet, the driver will return an ``EPERM`` error code. When

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the encoder is already running, this command does nothing. No

flags are defined for this command.

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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EBUSY

A drain sequence of a device implementing the ref": encoder is still in progress. It is not allowed to issue another encoder command until it completes.

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EINVAL

The cmd field is invalid.

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EPERM

The application sent a PAUSE or RESUME command when the encoder was not running.