ioctl VIDIOC ENUMOUTPUT

```
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-enumoutput.rst, line 2)

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.. c:namespace:: V4L

Name

VIDIOC ENUMOUTPUT - Enumerate video outputs

Synopsis

```
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```

```
.. c:macro:: VIDIOC_ENUMOUTPUT
```

int ioctl(int fd, VIDIOC ENUMOUTPUT, struct v412 output *argp)

Arguments

fd

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

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argp

Pointer to struct :c:type:\v412_output\.

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Description

To query the attributes of a video outputs applications initialize the <code>index</code> field of struct <code>:c:type:'v4l2_output'</code> and call the <code>ref:VIDIOC_ENUMOUTPUT'</code> 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 outputs applications shall begin at index zero, incrementing by one until the driver returns <code>EINVAL</code>.

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api) (media) (v41) vidioc-enumoutput.rst, line 34); backlink

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```
.. c:type:: v4l2 output
```

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Unknown directive type "flat-table".

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:header-rows: 0
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.. flat-table:: struct v412 output

1 1 2

```
* - __u32
- ``index``
  - Identifies the output, set by the application.
* - _u8
- ``name`
           `\ [32]
 - Name of the video output, a NUL-terminated ASCII string, for
   example: "Vout". This information is intended for the user,
   preferably the connector label on the device itself.
     _u32
 - ``type``
 - Type of the output, see :ref:`output-type`.
     u32
 - ``audioset``
 - Drivers can enumerate up to 32 video and audio outputs. This field
   shows which audio outputs were selectable as the current output if
    this was the currently selected video output. It is a bit mask.
   The LSB corresponds to audio output 0, the MSB to output 31. Any
   number of bits can be set, or none.
   When the driver does not enumerate audio outputs no bits must be
    set. Applications shall not interpret this as lack of audio
    support. Drivers may automatically select audio outputs without
    enumerating them.
   For details on audio outputs and how to select the current output
   see :ref:`audio`.
 - _u32
- ``modulator``
  - Output devices can have zero or more RF modulators. When the
     `type`` is ``V4L2 OUTPUT TYPE MODULATOR`` this is an RF connector
    and this field identifies the modulator. It corresponds to struct
    :c:type:`v412 modulator` field ``index``. For
    details on modulators see :ref:`tuner`.
* - :ref:`v412_std_id <v412-std-id>
     ``std`
  - Every video output supports one or more different video standards.
   This field is a set of all supported standards. For details on
   video standards and how to switch see :ref:`standard`.
* - _u32
- ``capabilities``
 - This field provides capabilities for the output. See
   :ref:`output-capabilities` for flags.
 - _u32
- ``reserved``\ [3]
```

- Reserved for future extensions. Drivers must set the array to zero.

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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-enumoutput.rst, line 103)

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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-enumoutput.rst, line 125)

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```
.. flat-table:: Output capabilities
   :header-rows: 0
   :stub-columns: 0
   :widths:
                  3 1 4
   * - ``V4L2 OUT_CAP_DV_TIMINGS``
      -0x00000002
      - This output supports setting video timings by using
        "VIDIOC S DV TIMINGS".
   * - ``V4L2 OUT_CAP_STD`
      - 0x0000004
      - This output supports setting the TV standard by using
         `VIDIOC S STD``
    * - ``V4L2 OUT CAP NATIVE SIZE``
     - 0x00000008
      - This output supports setting the native size using the
         `V4L2_SEL_TGT_NATIVE_SIZE`` selection target, see
        :ref:`v412-selections-common`.
```

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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EINVAL

The struct :c:type:`v4l2_output` index is out of bounds.

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