ioctl VIDIOC G SLICED VBI 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-g-sliced-vbi-cap.rst, line 2)

Unknown directive type "c:namespace".

.. c:namespace:: V4L

Name

VIDIOC G SLICED VBI CAP - Query sliced VBI capabilities

Synopsis

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Unknown directive type "c:macro".

.. c:macro:: VIDIOC G SLICED VBI CAP

int ioctl(int fd, VIDIOC G SLICED VBI CAP, struct v412 sliced vbi 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 sliced vbi cap'.

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Unknown interpreted text role "c:type".

Description

To find out which data services are supported by a sliced VBI capture or output device, applications initialize the type field of a struct :c.type:'v4l2_sliced_vbi_cap', clear the reserved array and call the :ref:'VIDIOC_G_SLICED_VBI_CAP <VIDIOC_G_SLICED_VBI_CAP>' ioctl. The driver fills in the remaining fields or returns an EINVAL error code if the sliced VBI API is unsupported or type is invalid.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role 'ref'.

Note

The type field was added, and the ioctl changed from read-only to write-read, in Linux 2.6.19.

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Unknown directive type "c:type".

```
.. c:type:: v412 sliced vbi cap
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p\{1.4cm\}|p\{4.4cm\}|p\{4.5cm\}|p\{3.6cm\}|
```

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-g-sliced-vbi-cap.rst, line 50)

Unknown directive type "flat-table".

```
.. flat-table:: struct v412 sliced vbi cap
   :header-rows: 0
    :stub-columns: 0
                   3 3 2 2 2
   :widths:
         u16
     - ``service_set`
      - :cspan: `2 A set of all data services supported by the driver.
       Equal to the union of all elements of the ``service lines`` array.
         _u16
     - __uro
- ``service_lines``\ [2][24]
      - :cspan: `2` Each element of this array contains a set of data
        services the hardware can look for or insert into a particular
       scan line. Data services are defined in :ref:`vbi-services`.
       Array indices map to ITU-R line numbers\ [#f1] as follows:
     - Element
      - 525 line systems
     - 625 line systems
     - ``service_lines``\ [0][1]
     - 1
     - 1
     - ``service_lines``\ [0][23]
     - 23
     - 23
     - ``service_lines``\ [1][1]
     - 264
     - ``service lines``\ [1][23]
     - 286
      - 336
```

```
- :cspan: `2` The number of VBI lines the hardware can capture or
    output per frame, or the number of services it can identify on a
    given line may be limited. For example on PAL line 16 the hardware
    may be able to look for a VPS or Teletext signal, but not both at
    the same time. Applications can learn about these limits using the
    :ref:`VIDIOC S FMT <VIDIOC G FMT>` ioctl as described in
    :ref:`sliced`.
  - :cspan:`2` Drivers must set ``service_lines`` [0][0] and
     `service_lines``\ [1][0] to zero.
* - __u3z
- ``type
  - Type of the data stream, see :c:type:`v412_buf_type`. Should be
      V4L2 BUF TYPE SLICED VBI CAPTURE`` or
    ``V4L2 BUF_TYPE_SLICED_VBI_OUTPUT``.
 - u32
- ``reserved``\ [3]
  - :cspan:`2` This array is reserved for future extensions.
    Applications and drivers must set it to zero.
```

[1] See also ref. vbi-525 and ref. vbi-625.

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Unknown interpreted text role 'ref'.

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Unknown interpreted text role 'ref'.

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Unknown directive type "tabularcolumns".

.. tabularcolumns:: $|p{3.9cm}|p{1.0cm}|p{2.0cm}|p{3.0cm}|p{7.0cm}|$

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Unknown directive type "flat-table".

```
.. flat-table:: Sliced VBI services
   :header-rows: 1
   :stub-columns: 0
   :widths:
                  2 1 1 2 2
   * - Symbol
     - Value
     - Reference
      - Lines, usually
     - Payload
    * - ``V4L2_SLICED_TELETEXT_B`` (Teletext System B)
     - 0x0001
      - :ref:`ets300706`,
        :ref: `itu653`
      - PAL/SECAM line 7-22, 320-335 (second field 7-22)
      - Last 42 of the 45 byte Teletext packet, that is without clock
```

```
run-in and framing code, lsb first transmitted.
* - ``V4L2_SLICED_VPS`
 -0x0400
 - :ref:`ets300231`
 - PAL line 16
 - Byte number 3 to 15 according to Figure 9 of ETS 300 231, 1sb
   first transmitted.
* - ``V4L2_SLICED_CAPTION_525``
 - 0x1000
  - :ref:`cea608`
  - NTSC line 21, 284 (second field 21)
 - Two bytes in transmission order, including parity bit, lsb first
   transmitted.
* - ``V4L2_SLICED_WSS_625``
 - 0x4000
 - :ref: `en300294`,
    :ref:`itu1119`
 - PAL/SECAM line 23
  - See :ref:`v4l2-sliced-vbi-cap-wss-625-payload` below.
* - ``V4L2 SLICED VBI 525``
 - 0x1000
- :cspan:`2` Set of services applicable to 525 line systems.
* - ``V4L2_SLICED_VBI_625``
  - :cspan:`2` Set of services applicable to 625 line systems.
```

V4L2_SLICED_VBI_CAP WSS_625 payload

The payload for V4L2_SLICED_WSS_625 is:

Byte	0		1	
Bit	msb	lsb	msb	lsb
	7 6 5 4	3 2 1 0	x x 13 12	11 10 9 8

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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Unknown interpreted text role "ref".

EINVAL

The value in the type field is wrong.