# ioctl VIDIOC\_G\_JPEGCOMP, VIDIOC\_S\_JPEGCOMP

```
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-jpegcomp.rst, line 2)
Unknown directive type "c:namespace".
```

#### Name

VIDIOC\_G\_JPEGCOMP - VIDIOC\_S\_JPEGCOMP

.. c:namespace:: V4L

#### **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-g-jpegcomp.rst, line 18)

Unknown directive type "c:macro".

.. c:macro:: VIDIOC_G_JPEGCOMP
```

int ioctl(int fd, VIDIOC\_G\_JPEGCOMP, v412\_jpegcompression \*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-g-jpegcomp.rst, line 22)

Unknown directive type "c:macro".

.. c:macro:: VIDIOC_S_JPEGCOMP
```

int ioctl(int fd, VIDIOC S JPEGCOMP, const v412 jpegcompression \*argp)

### **Arguments**

fd

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

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-jpegcomp.rst, line 30); backlink
Unknown interpreted text role "c:finc".

arqp

Pointer to struct :c:type:\v412\_jpegcompression\.

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-jpegcomp.rst, line 33); backlink Unknown interpreted text role "c:type".

## **Description**

These ioctls are **deprecated**. New drivers and applications should use **:ref:'JPEG class controls <jpeg-controls>'** for image quality and JPEG markers control.

 $System\ Message: ERROR/3\ (\texttt{D:\noboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master]\ [Documentation]\ [userspace-api]\ [media]\ [v41]\vidioc-g-jpegcomp.rst, line\ 38); \\ backlink$ 

Unknown interpreted text role "ref".

[to do]

Ronald Bultje elaborates:

APP is some application-specific information. The application can set it itself, and it'll be stored in the JPEG-encoded fields (eg; interlacing information for in an AVI or so). COM is the same, but it's comments, like 'encoded by me' or so.

jpeg\_markers describes whether the huffman tables, quantization tables and the restart interval information (all JPEG-specific stuff) should be stored in the JPEG-encoded fields. These define how the JPEG field is encoded. If you omit them, applications assume you've used standard encoding. You usually do want to add them.

```
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-jpegcomp.rst, line 57)

Unknown directive type "tabularcolumns".

.. tabularcolumns:: |p{1.2cm}|p{3.0cm}|p{13.1cm}|
```

```
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-jpegcomp.rst, line 59)
Unknown directive type "c:type".
.. c:type:: v412_jpegcompression
```

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-jpegcomp.rst, line 61)
Unknown directive type "flat-table".

```
.. flat-table:: struct v412 jpegcompression
   :header-rows: 0
   :stub-columns: 0
   :widths:
                   1 1 2
    * - int
     - ``quality``
      - Deprecated. If
       :ref:`V4L2 CID JPEG COMPRESSION QUALITY <jpeg-quality-control>`
       control is exposed by a driver applications should use it instead
       and ignore this field.
    * - int
      - ``APPn``
    * - int
     - ``APP len``
    * - char
     - ``APP data``\ [60]
    * - int
     - ``COM len``
    * - char
      - ``COM data``\ [60]
   * - _u32
- ``jpeg_markers``
      - See :ref:`jpeg-markers`. Deprecated. If
       :ref:`V4L2 CID JPEG ACTIVE_MARKER <jpeg-active-marker-control>`
       control is exposed by a driver applications should use it instead
       and ignore this field.
```

```
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-jpegcomp.rst, line 94)

Unknown directive type "tabularcolumns".

.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
```

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master\Documentation\userspace-api\media\v41\[linux-master][Documentation][userspace-
api] [media] [v41] vidioc-g-jpegcomp.rst, line 98)
Unknown directive type "flat-table".
                 .. flat-table:: JPEG Markers Flags
                                   :header-rows: 0
                                   :stub-columns: 0
                                   :widths:
                                                                                                      3 1 4
                                   * - ``V4L2_JPEG_MARKER_DHT``
                                            - (1<<3)
                                            - Define Huffman Tables
                                   * - ``V4L2_JPEG_MARKER_DQT``
                                           - (1<<4)
                                            - Define Quantization Tables
                                   * - ``V4L2_JPEG_MARKER_DRI`
                                          - (1<<5)
                                            - Define Restart Interval
                                    * - ``V4L2_JPEG_MARKER_COM`
                                          - (1<<6)
                                            - Comment segment
                                   * - ``V4L2_JPEG_MARKER_APP``
                                             - (1<<7)
                                            - App segment, driver will always use APPO
```

#### **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.

 $System\ Message: ERROR/3\ (\mbox{D:\noboarding-resources}\scample-onboarding-resources\linux-master)\ Documentation\ [userspace-api]\ [media]\ [v41]\ vidioc-g-jpegcomp.rst, line\ 122); \ backlink$ 

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