ioctl VIDIOC QUERYBUF

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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-querybuf.rst, line 2)
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.. c:namespace:: V4L

Name

VIDIOC QUERYBUF - Query the status of a buffer

Synopsis

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.. c:macro:: VIDIOC_QUERYBUF
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int ioctl(int fd, VIDIOC QUERYBUF, struct v412 buffer *argp)

Arguments

fd

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

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argp

Pointer to struct :c:type:\v412_buffer\.

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Description

This ioctl is part of the ref. streaming I/O method. It can be used to query the status of a buffer at any time after buffers have been allocated with the ref. VIDIOC_REQBUFS"> ioctl.

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Applications set the type field of a struct :c:type:'v4l2_buffer' to the same buffer type as was previously used with struct :c:type:'v4l2_format' type and struct :c:type:'v4l2_requestbuffers' type, and the index field. Valid index numbers range from zero to the number of buffers allocated with :ref:'VIDIOC_REQBUFS' (struct :c:type:'v4l2_requestbuffers' count) minus one. The reserved and reserved2 fields must be set to 0. When using the :ref: multi-planar API <planar-apis>', the m.planes field must contain a userspace pointer to an array of struct :c:type:'v4l2_plane' and the length field has to be set to the number of elements in that array. After calling :ref:'VIDIOC_QUERYBUF' with a pointer to this structure drivers return an error code or fill the rest of the structure.

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In the flags field the V4L2_BUF_FLAG_MAPPED, V4L2_BUF_FLAG_PREPARED, V4L2_BUF_FLAG_QUEUED and V4L2_BUF_FLAG_DONE flags will be valid. The memory field will be set to the current I/O method. For the single-planar API, the m.offset contains the offset of the buffer from the start of the device memory, the length field its size. For the multi-planar API, fields m.mem_offset and length in the m.planes array elements will be used instead and the length field of struct ctype: v4I2_buffer' is set to the number of filled-in array elements. The driver may or may not set the remaining fields and flags, they are meaningless in this context.

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The struct :c:type: v412 buffer' structure is specified in :ref.'buffer'.

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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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EINVAL

The buffer type is not supported, or the index is out of bounds.