

ioctl MEDIA_IOC_ENUM_LINKS

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\mediactl\linux-master) (Documentation) (userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 2)

Unknown directive type "c.namespace".

```
.. c:namespace:: MC
```

Name

MEDIA_IOC_ENUM_LINKS - Enumerate all pads and links for a given entity

Synopsis

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Unknown directive type "c.macro".

```
.. c:macro:: MEDIA_IOC_ENUM_LINKS
```

```
int ioctl(int fd, MEDIA_IOC_ENUM_LINKS, struct media_links_enum *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:media_links_enum`.

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Unknown interpreted text role "c:type".

Description

To enumerate pads and/or links for a given entity, applications set the entity field of a struct `c:type:media_links_enum` structure and initialize the struct `c:type:media_pad_desc` and struct `c:type:media_link_desc` structure arrays pointed by the pads and links fields. They then call the MEDIA_IOC_ENUM_LINKS ioctl with a pointer to this structure.

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master\Documentation\userspace-api\media\mediactl\linux-master) (Documentation)
(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 34); [backlink](#)

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 34); [backlink](#)

Unknown interpreted text role "c:type".

If the `pads` field is not NULL, the driver fills the `pads` array with information about the entity's pads. The array must have enough room to store all the entity's pads. The number of pads can be retrieved with `ref:MEDIA_IOC_ENUM_ENTITIES`.

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 42); [backlink](#)

Unknown interpreted text role "ref".

If the `links` field is not NULL, the driver fills the `links` array with information about the entity's outbound links. The array must have enough room to store all the entity's outbound links. The number of outbound links can be retrieved with `ref:MEDIA_IOC_ENUM_ENTITIES`.

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 47); [backlink](#)

Unknown interpreted text role "ref".

Only forward links that originate at one of the entity's source pads are returned during the enumeration process.

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 55)

Unknown directive type "c:type".

```
.. c:type:: media_links_enum
```

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 57)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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(userspace-api) (media) (mediactl)media-ioc-enum-links.rst, line 59)

Unknown directive type "flat-table".

```
.. flat-table:: struct media_links_enum
  :header-rows: 0
  :stub-columns: 0
  :widths:      1 1 2

  * - __u32
    - ``entity``
    - Entity id, set by the application.

  * - struct :c:type:`media_pad_desc`
    - ``*\ ``pads``
    - Pointer to a pads array allocated by the application. Ignored if
      NULL.

  * - struct :c:type:`media_link_desc`
```

- *\ ``links``
- Pointer to a links array allocated by the application. Ignored if NULL.
- * - __u32
- ``reserved[4]``
- Reserved for future extensions. Drivers and applications must set the array to zero.

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Unknown directive type "c.type".

```
.. c:type:: media_pad_desc
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct media_pad_desc
   :header-rows: 0
   :stub-columns: 0
   :widths:      1 1 2

   * - __u32
     - ``entity``
     - ID of the entity this pad belongs to.

   * - __u16
     - ``index``
     - Pad index, starts at 0.

   * - __u32
     - ``flags``
     - Pad flags, see :ref:`media-pad-flag` for more details.

   * - __u32
     - ``reserved[2]``
     - Reserved for future extensions. Drivers and applications must set
       the array to zero.
```

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Unknown directive type "c.type".

```
.. c:type:: media_link_desc
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct media_link_desc
    :header-rows: 0
    :stub-columns: 0
    :widths:      1 1 2

    * - struct :c:type:`media_pad_desc`
      - ``source``
      - Pad at the origin of this link.

    * - struct :c:type:`media_pad_desc`
      - ``sink``
      - Pad at the target of this link.

    * - u32
      - ``flags``
      - Link flags, see :ref:`media-link-flag` for more details.

    * - u32
      - ``reserved[2]``
      - Reserved for future extensions. Drivers and applications must set
        the array to zero.
```

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 struct `:c:type:`media_links_enum`` id references a non-existing entity.

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Unknown interpreted text role "c:type".