ioctl CEC ADAP G CAPS

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec] cec-ioc-adap-g-caps.rst, line 2)
```

Unknown directive type "c:namespace".

.. c:namespace:: CEC

Name

CEC_ADAP_G_CAPS - Query device capabilities

Synopsis

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 18)
```

Unknown directive type "c:macro".

```
.. c:macro:: CEC_ADAP_G_CAPS
```

int ioctl(int fd, CEC ADAP G CAPS, struct cec caps *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\cec\[linux-master] [Documentation] [userspace-api] [media] [cec] cec-ioc-adap-g-caps.rst, line 26); backlink

Unknown interpreted text role "c:func".

argp

Description

All cec devices must support cec_ADAP_G_CAPS. To query device information, applications call the ioctl with a pointer to a struct cec_caps. The driver fills the structure and returns the information to the application. The ioctl never fails.

 $System \, Message: ERROR/3 \, (\mbox{D:\nonlinear-resources}) ample-onboarding-resources $$\lim\max_{master\nonlinear-api\mbox{linux-master}} [\mbox{Documentation}] \, [\mbox{user-space-api}] \, [\mbox{media}] \, [\mbox{cec-ioc-adap-g-caps.rst}, \, \mbox{line } 33); \, \mbox{backlink} \label{eq:backlink}$

Unknown interpreted text role 'ref'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 33); backlink

Unknown interpreted text role "c:type".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 38)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{1.2cm}|p{2.5cm}|p{13.6cm}|
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 40)

Unknown directive type "c:type".

```
.. c:type:: cec caps
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 42)

Unknown directive type "flat-table".

```
.. flat-table:: struct cec caps
   :header-rows: 0
   :stub-columns: 0
   :widths:
                   1 1 16
   * - char
      - ``driver[32]``
      - The name of the cec adapter driver.
    * - char
      - ``name[32]`
      - The name of this CEC adapter. The combination ``driver`` and
         `name`` must be unique.
         u32
     - __usz
- ``available_log_addrs``
      - The maximum number of logical addresses that can be configured.
      - _u32
- ``capabilities``
      - The capabilities of the CEC adapter, see
        :ref:`cec-capabilities`.
         u32
      - ``version``
      - CEC Framework API version, formatted with the ``KERNEL_VERSION()``
        macro.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec] cec-ioc-adap-g-caps.rst, line 66)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{2.5cm}|p{10.4cm}|
```

 $System\ Message: ERROR/3\ (\mbox{D:\noboarding-resources}\scample-onboarding-resources\linux-master)\ [Documentation]\ [userspace-api]\ [media]\ [cec]\ cec-ioc-adap-g-caps.rst, line\ 70)$

Unknown directive type "flat-table".

```
.. flat-table:: CEC Capabilities Flags
   :header-rows: 0
    :stub-columns: 0
    :widths:
                   3 1 8
    * .. _ `CEC-CAP-PHYS-ADDR`:
      - ``CEC CAP PHYS ADDR``
      - 0x0000001
      - Userspace has to configure the physical address by calling
        :ref:`ioctl CEC_ADAP_S_PHYS_ADDR <CEC_ADAP_S_PHYS_ADDR>`. If
        this capability isn't set, then setting the physical address is
        handled by the kernel whenever the EDID is set (for an \ensuremath{\mathsf{HDMI}}
       receiver) or read (for an HDMI transmitter).
    * .. _ `CEC-CAP-LOG-ADDRS`:
      - ``CEC CAP LOG ADDRS``
      -0x000000002
```

```
- Userspace has to configure the logical addresses by calling
    :ref:`ioctl CEC_ADAP_S_LOG_ADDRS <CEC_ADAP_S_LOG_ADDRS>`. If
    this capability isn't set, then the kernel will have configured
* .. _`CEC-CAP-TRANSMIT`:
 - ``CEC CAP TRANSMIT``
  - 0x0000004
  - Userspace can transmit CEC messages by calling
    :ref: `ioctl CEC TRANSMIT <CEC TRANSMIT>`. This implies that
   userspace can be a follower as well, since being able to transmit
   messages is a prerequisite of becoming a follower. If this
   capability isn't set, then the kernel will handle all CEC
   transmits and process all CEC messages it receives.
* .. _ `CEC-CAP-PASSTHROUGH`:
 - ``CEC_CAP_PASSTHROUGH``
  - 0x00000008
 - Userspace can use the passthrough mode by calling
   :ref:`ioctl CEC S MODE <CEC S MODE>`.
* .. _ `CEC-CAP-RC`:
 - ``CEC CAP RC``
 -0x0000010
  - This adapter supports the remote control protocol.
* .. _ `CEC-CAP-MONITOR-ALL`:
 - ``CEC CAP MONITOR ALL``
 -0x000000020
  - The CEC hardware can monitor all messages, not just directed and
   broadcast messages.
* .. _`CEC-CAP-NEEDS-HPD`:
  - ``CEC CAP NEEDS HPD``
  -0x00000040
  - The CEC hardware is only active if the HDMI Hotplug Detect pin is
   high. This makes it impossible to use CEC to wake up displays that
    set the HPD pin low when in standby mode, but keep the CEC bus
* .. _`CEC-CAP-MONITOR-PIN`:
  - ``CEC CAP MONITOR PIN``
 -0x00000080
  - The CEC hardware can monitor CEC pin changes from low to high voltage
   and vice versa. When in pin monitoring mode the application will receive ``CEC_EVENT_PIN_CEC_LOW`` and ``CEC_EVENT_PIN_CEC_HIGH`` events.
* .. _`CEC-CAP-CONNECTOR-INFO`:
  - ``CEC CAP CONNECTOR INFO`
 -0 \times 00000100
  - If this capability is set, then :ref:`CEC ADAP G CONNECTOR INFO` can
   be used.
```

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 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\cec\[linux-master] [Documentation] [userspace-api] [media] [cec]cec-ioc-adap-g-caps.rst, line 144); backlink

Unknown interpreted text role 'ref'.