ioctls CEC_ADAP_G_LOG_ADDRS and CEC_ADAP_S_LOG_ADDRS

```
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-log-addrs.rst, line 2)
Unknown directive type "cnamespace".
.. c:namespace:: CEC
```

Name

CEC ADAP G LOG ADDRS, CEC ADAP S LOG ADDRS - Get or set the logical addresses

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-log-addrs.rst, line 20)

Unknown directive type "c:macro".

.. c:macro:: CEC_ADAP_G_LOG_ADDRS
```

int ioctl(int fd, CEC ADAP G LOG ADDRS, struct cec log addrs *argp)

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-log-addrs.rst, line 24)

Unknown directive type "c:macro".

.. c:macro:: CEC ADAP S LOG ADDRS

int ioctl(int fd, CEC ADAP S LOG ADDRS, struct cec log addrs *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-log-addrs.rst, line 32); backlink

Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:`cec_log_addrs`.

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-log-addrs.rst, line 35); backlink

Unknown interpreted text role "c:type".

Description

To query the current CEC logical addresses, applications call ref: ioctl CEC_ADAP G LOG ADDRS

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-log-addrs.rst, line 40); 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-log-addrs.rst, line 40); backlink

Unknown interpreted text role "c:type".

To set new logical addresses, applications fill in struct :c:type:'cec_log_addrs' and call :ref.'ioctl CEC_ADAP_S_LOG_ADDRS
<CEC_ADAP_S_LOG_ADDRS>' with a pointer to this struct. The :ref.'ioctl CEC_ADAP_S_LOG_ADDRS

<CEC_ADAP_S_LOG_ADDRS>' is only available if CEC_CAP_LOG_ADDRS is set (the ENOTTY error code is returned otherwise).
The :ref.'ioctl CEC_ADAP_S_LOG_ADDRS <CEC_ADAP_S_LOG_ADDRS>' can only be called by a file descriptor in initiator mode (see :ref.'CEC_S_MODE'), if not the EBUSY error code will be returned.

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-log-addrs.rst, line 44); 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-log-addrs.rst, line 44); 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-log-addrs.rst, line 44); 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-log-addrs.rst, line 44); backlink

Unknown interpreted text role 'ref'.

To clear existing logical addresses set <code>num_log_addrs</code> to 0. All other fields will be ignored in that case. The adapter will go to the unconfigured state and the <code>cec_version</code>, <code>vendor_id</code> and <code>osd_name</code> fields are all reset to their default values (CEC version 2.0, no vendor ID and an empty OSD name).

If the physical address is valid (see ref ioctl CEC_ADAP_S_PHYS_ADDR
CEC_ADAP_S_PHYS_ADDR>`), then this ioctl will block until all requested logical addresses have been claimed. If the file descriptor is in non-blocking mode then it will not wait for the logical addresses to be claimed, instead it just returns 0.

Unknown interpreted text role 'ref'.

A ref: CEC_EVENT_STATE_CHANGE < CEC-EVENT-STATE-CHANGE>` event is sent when the logical addresses are claimed or cleared.

 $System \, Message: ERROR/3 \, (\mbox{D:\noboarding-resources}) sample-onboarding-resources \linux-master) [Documentation] [userspace-api] [media] [cec] cec-ioc-adap-g-log-addrs.rst, line 62); backlink \linux-master] [backlink] [cec] cec-ioc-adap-g-log-addrs.rst, line 62); backlink \linux-master] [cec] cec-ioc-adap-g-log-addrs.rst, line 62); backlink \linux-master]$

Unknown interpreted text role 'ref'.

 $System \, Message: ERROR/3 \, (\mbox{D:\noboarding-resources}) ample-onboarding-resources linux-master \mbox{Documentation} userspace-api\media\cec\[linux-master] [\mbox{Documentation}] [userspace-api] [\mbox{media}] [\mbox{cec-ioc-adap-g-log-addrs.rst}, \mbox{line } 65); \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-log-addrs.rst, line 68)

Unknown directive type "c:type".

```
.. c:type:: cec_log_addrs
```

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-log-addrs.rst, line 70)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{1.0cm}|p{8.0cm}|p{8.0cm}|
```

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-log-addrs.rst, line 72)

Unknown directive type "cssclass".

```
.. cssclass:: longtable
```

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-log-addrs.rst, line 74)

```
.. flat-table:: struct cec log addrs
    :header-rows: 0
    :stub-columns: 0
    :widths:
                1 1 16
          u8
      - ``log addr[CEC_MAX_LOG_ADDRS]``
      - The actual logical addresses that were claimed. This is set by the
        driver. If no logical address could be claimed, then it is set to
         `CEC LOG ADDR INVALID``. If this adapter is Unregistered, then
        ``log_addr[0]`` is set to 0xf and all others to
        ``CEC_LOG_ADDR_INVALID`
    * - __u16
- ``log_addr_mask``
      - The \ensuremath{\text{bitmask}} of all logical addresses this adapter has claimed. If
        this adapter is Unregistered then ``log addr mask`` sets bit 15
        and clears all other bits. If this adapter is not configured at all, then ``log_addr_mask`` is set to 0. Set by the driver.
      - _u8
- ``cec version``
      - The CEC version that this adapter shall use. See
        :ref:`cec-versions`. Used to implement the
        ``CEC MSG CEC VERSION`` and ``CEC MSG REPORT FEATURES`` messages.
        Note that :ref: `CEC_OP_CEC_VERSION_1_3A <CEC-OP-CEC-VERSION-1-3A>` is not allowed by the CI
        framework.
    * - __u8
- ``num_log_addrs``
```

```
- Number of logical addresses to set up. Must be â%¤
    ``available_log_addrs`` as returned by :ref:`CEC_ADAP_G_CAPS`. All arrays in
    this structure are only filled up to index
    ``available log addrs``-1. The remaining array elements will be
    ignored. Note that the CEC 2.0 standard allows for a maximum of 2
    logical addresses, although some hardware has support for more.
    ``CEC MAX LOG ADDRS`` is 4. The driver will return the actual
    {\tt number} of logical addresses it could claim, which may be less than
    what was requested. If this field is set to 0, then the CEC
    adapter shall clear all claimed logical addresses and all other
    fields will be ignored.
  - __u32
- ``vendor id``
  - The vendor ID is a 24-bit number that identifies the specific
    vendor or entity. Based on this ID vendor specific commands may be
    defined. If you do not want a vendor ID then set it to
     `CEC_VENDOR_ID_NONE`
     u32
  - __usz
- ``flags`
  - Flags. See :ref:`cec-log-addrs-flags` for a list of available flags.
  - ``osd name[15]``
  - The \overline{\text{On-Screen}} Display name as is returned by the
     `CEC_MSG_SET_OSD_NAME`` message.
  - uo
- ``primary_device_type[CEC_MAX_LOG_ADDRS]``
  - Primary device type for each logical address. See
   :ref:`cec-prim-dev-types` for possible types.
  - _u8
- ``log_addr_type[CEC_MAX_LOG_ADDRS]``
  - Logical address types. See :ref: `cec-log-addr-types` for
    possible types. The driver will update this with the actual
    logical address type that it claimed (e.g. it may have to fallback
    to :ref:`CEC LOG ADDR TYPE UNREGISTERED <CEC-LOG-ADDR-TYPE-UNREGISTERED>`).
* - __u8
   - ``all_device_types[CEC_MAX_LOG_ADDRS]``
  - CEC 2.0 specific: the bit mask of all device types. See
    :ref:`cec-all-dev-types-flags`. It is used in the CEC 2.0
    ``CEC MSG REPORT FEATURES`` message. For CEC 1.4 you can either leave
    this field to 0, or fill it in according to the CEC 2.0 guidelines to
    give the CEC framework more information about the device type, even
    though the framework won't use it directly in the CEC message.
  - u8
- ``features[CEC_MAX_LOG_ADDRS][12]``
  - Features for each logical address. It is used in the CEC 2.0
     `CEC_MSG_REPORT_FEATURES`` message. The 12 bytes include both the
    RC Profile and the Device Features. For CEC 1.4 you can either leave
    this field to all 0, or fill it in according to the CEC 2.0 guidelines to
    give the CEC framework more information about the device type, even
    though the framework won't use it directly in the CEC message.
```

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-log-addrs.rst, line 153)

Unknown directive type "tabularcolumns".

.. tabularcolumns:: $|p{7.8cm}|p{1.0cm}|p{8.5cm}|$

```
* .. _`CEC_LOG_ADDRS_FL_ALLOW_RC_PASSTHRU`:

- ``CEC_LOG_ADDRS_FL_ALLOW_RC_PASSTHRU``
- 2

- By default the ``CEC_MSG_USER_CONTROL_PRESSED`` and ``CEC_MSG_USER_CONTROL_RELEASED``
    messages are only passed on to the follower(s), if any. If this flag is set,
    then these messages are also passed on to the remote control input subsystem
    and will appear as keystrokes. This features needs to be enabled explicitly.
    If CEC is used to enter e.g. passwords, then you may not want to enable this
    to avoid trivial snooping of the keystrokes.

* .. _`CEC_LOG_ADDRS_FL_CDC_ONLY`:

- ``CEC_LOG_ADDRS_FL_CDC_ONLY``
- 4

- If this flag is set, then the device is CDC-Only. CDC-Only CEC devices
    are CEC devices that can only handle CDC messages.

All other messages are ignored.
```

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-log-addrs.rst, line 189)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{7.8cm}|p{1.0cm}|p{8.5cm}|
```

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-log-addrs.rst, line 193)

Unknown directive type "flat-table".

```
.. flat-table:: CEC Versions
   :header-rows: 0
   :stub-columns: 0
   :widths:
                  3 1 4
   * .. `CEC-OP-CEC-VERSION-1-3A`:
     - ``CEC_OP_CEC_VERSION_1_3A``
     - 4
     - CEC version according to the HDMI 1.3a standard.
    * .. _`CEC-OP-CEC-VERSION-1-4B`:
     - ``CEC_OP_CEC_VERSION_1_4B``
     - 5
     - CEC version according to the HDMI 1.4b standard.
     .. _`CEC-OP-CEC-VERSION-2-0`:
     - ``CEC_OP_CEC_VERSION_2_0``
     - CEC version according to the HDMI 2.0 standard.
```

 $System\ Message:\ ERROR/3\ (\mbox{D:\noboarding-resources}\ \mbox{linux-master}\ \mbox{Documentation}\ \mbox{userspace-api}\ \mbox{media\cec\[linux-master]}\ \mbox{[Documentation]}\ \mbox{[userspace-api]}\ \mbox{[media]\[cec]\cec-ioc-adap-g-log-addrs.rst, line\ 214)}$

Unknown directive type "tabularcolumns".

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

```
- ``CEC_OP_PRIM_DEVTYPE_TV``
 - Use for a TV.
* .. _`CEC-OP-PRIM-DEVTYPE-RECORD`:
 - ``CEC_OP_PRIM_DEVTYPE_RECORD``
 - Use for a recording device.
* .. _ `CEC-OP-PRIM-DEVTYPE-TUNER`:
 - ``CEC_OP_PRIM_DEVTYPE_TUNER``
 - Use for a device with a tuner.
* .. _ `CEC-OP-PRIM-DEVTYPE-PLAYBACK`:
 - ``CEC_OP_PRIM_DEVTYPE_PLAYBACK``
 - Use for a playback device.
* .. _ `CEC-OP-PRIM-DEVTYPE-AUDIOSYSTEM`:
 - ``CEC OP_PRIM_DEVTYPE_AUDIOSYSTEM``
 - 5
 - Use for an audio system (e.g. an audio/video receiver).
* .. _ `CEC-OP-PRIM-DEVTYPE-SWITCH`:
 - ``CEC OP_PRIM_DEVTYPE_SWITCH``
 - 6
 - Use for a CEC switch.
* .. `CEC-OP-PRIM-DEVTYPE-VIDEOPROC`:
 - ``CEC_OP_PRIM_DEVTYPE_VIDEOPROC``
 - 7
 - Use for a video processor device.
```

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-log-addrs.rst, line 259)

Unknown directive type "tabularcolumns".

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

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-log-addrs.rst, line 263)

```
.. flat-table:: CEC Logical Address Types
   :header-rows: 0
    :stub-columns: 0
   :widths:
                  3 1 16
    * .. _ `CEC-LOG-ADDR-TYPE-TV`:
     - ``CEC_LOG_ADDR_TYPE_TV``
     - 0
     - Use for a TV.
    * .. _`CEC-LOG-ADDR-TYPE-RECORD`:
     - ``CEC_LOG_ADDR_TYPE_RECORD``
     - 1
     - Use for a recording device.
    * .. _`CEC-LOG-ADDR-TYPE-TUNER`:
     - ``CEC_LOG_ADDR_TYPE_TUNER``
     - Use for a tuner device.
    * .. _ `CEC-LOG-ADDR-TYPE-PLAYBACK`:
     - ``CEC_LOG_ADDR_TYPE_PLAYBACK``
     - 3
     - Use for a playback device.
    * .. _ `CEC-LOG-ADDR-TYPE-AUDIOSYSTEM`:
     - ``CEC_LOG_ADDR_TYPE_AUDIOSYSTEM``
     - 4
     - Use for an audio system device.
    * .. _ `CEC-LOG-ADDR-TYPE-SPECIFIC`:
```

```
- ``CEC_LOG_ADDR_TYPE_SPECIFIC``
- 5
- Use for a second TV or for a video processor device.
* .. _`CEC_LOG_ADDR_TYPE_UNREGISTERED`:
- ``CEC_LOG_ADDR_TYPE_UNREGISTERED``
- 6
- Use this if you just want to remain unregistered. Used for pure CEC switches or CDC-only devices (CDC: Capability Discovery and Control).
```

```
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-log-addrs.rst, line 307)
```

Unknown directive type "tabularcolumns".

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

 $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-log-addrs.rst,\ line\ 311)$

Unknown directive type "flat-table".

```
.. flat-table:: CEC All Device Types Flags
   :header-rows: 0
   :stub-columns: 0
   :widths:
                  3 1 4
   * .. _ `CEC-OP-ALL-DEVTYPE-TV`:
     - ``CEC_OP_ALL_DEVTYPE_TV``
     - 0x80
     - This supports the TV type.
    .._`CEC-OP-ALL-DEVTYPE-RECORD`:
     - ``CEC OP ALL DEVTYPE RECORD``
     - 0x40
     - This supports the Recording type.
   * .. _ `CEC-OP-ALL-DEVTYPE-TUNER`:
     - ``CEC OP ALL DEVTYPE TUNER``
     - 0x20
     - This supports the Tuner type.
   * .. `CEC-OP-ALL-DEVTYPE-PLAYBACK`:
     - ``CEC_OP_ALL_DEVTYPE_PLAYBACK``
     - 0x10
     - This supports the Playback type.
    * .. _ `CEC-OP-ALL-DEVTYPE-AUDIOSYSTEM`:
     - ``CEC OP ALL_DEVTYPE_AUDIOSYSTEM``
     -0x08
     - This supports the Audio System type.
   * .. _ `CEC-OP-ALL-DEVTYPE-SWITCH`:
     - ``CEC_OP_ALL_DEVTYPE_SWITCH``
     -0x04
     - This supports the CEC Switch or Video Processing type.
```

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-log-addrs.rst, line 351); backlink

Unknown interpreted text role 'ref'.

The reft ioctl CEC_ADAP_S_LOG_ADDRS < CEC_ADAP_S_LOG_ADDRS > can return the following error codes:

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-log-addrs.rst, line 355); backlink

Unknown interpreted text role 'ref'.

ENOTTY

The CEC CAP LOG ADDRS capability wasn't set, so this ioctl is not supported.

EBUSY

The CEC adapter is currently configuring itself, or it is already configured and <code>num_log_addrs</code> is non-zero, or another filehandle is in exclusive follower or initiator mode, or the filehandle is in mode <code>CEC_MODE_NO_INITIATOR</code>.

EINVAL

The contents of struct :c:type:'cec_log_addrs' is invalid.

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-log-addrs.rst, line 367); hacklink

Unknown interpreted text role "c:type".