The ALSA Driver API

Management of Cards and Devices

Card Management

```
.. kernel-doc:: sound/core/init.c
```

Device Components

```
.. kernel-doc:: sound/core/device.c
```

Module requests and Device File Entries

```
.. kernel-doc:: sound/core/sound.c
```

Memory Management Helpers

```
.. kernel-doc:: sound/core/memory.c
```

```
.. kernel-doc:: sound/core/memalloc.c
```

PCM API

PCM Core

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm.c
```

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_lib.c
```

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_native.c
```

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/pcm.h
```

PCM Format Helpers

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_misc.c
```

PCM Memory Management

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_memory.c
```

PCM DMA Engine API

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/pcm_dmaengine.c
```

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/dmaengine_pcm.h
```

Control/Mixer API

General Control Interface

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 54)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/control.c
```

AC97 Codec API

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 58)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/pci/ac97/ac97_codec.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 59)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/pci/ac97/ac97_pcm.c
```

Virtual Master Control API

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 63)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/vmaster.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 64)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/control.h
```

MIDI API

Raw MIDI API

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 71)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/rawmidi.c
```

MPU401-UART API

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 75)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: sound/drivers/mpu401/mpu401_uart.c
> ```

Proc Info API

Proc Info Interface

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 82)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: sound/core/info.c
> ```

Compress Offload

Compress Offload API

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 89)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: sound/core/compress_offload.c
> ```

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 90)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: include/uapi/sound/compress_offload.h
> ```

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 91)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: include/uapi/sound/compress_params.h
> ```

> **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst, **line 92)**
>
> Unknown directive type "kernel-doc".
>
> ```
>     .. kernel-doc:: include/sound/compress_driver.h
> ```

ASoC

ASoC Core API

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 99)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/soc.h
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 100)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-core.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 101)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-devres.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 102)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-component.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 103)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-pcm.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 104)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-ops.c
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 105)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-compress.c
```

ASoC DAPM API

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst**, line 109)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-dapm.c
```

ASoC DMA Engine API

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 113**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-generic-dmaengine-pcm.c
```

Miscellaneous Functions

Hardware-Dependent Devices API

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 120**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/hwdep.c
```

Jack Abstraction Layer API

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 124**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/jack.h
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 125**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/jack.c
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 126**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/soc/soc-jack.c
```

ISA DMA Helpers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 130**)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/core/isadma.c
```

Other Helper Macros

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 134)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/sound/core.h
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\sound\kernel-api\[linux-master][Documentation][sound][kernel-api]alsa-driver-api.rst`, **line 135)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: sound/sound_core.c
```