

# The Linux Kernel API

## List Management Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 9)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/list.h
   :internal:
```

## Basic C Library Functions

When writing drivers, you cannot in general use routines which are from the C Library. Some of the functions have been found generally useful and they are listed below. The behaviour of these functions may vary slightly from those defined by ANSI, and these deviations are noted in the text.

## String Conversions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 24)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/vsprintf.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 27)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/kstrttox.h
   :functions: kstrtoul kstrtoul
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 30)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/kstrttox.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 33)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/string_helpers.c
   :export:
```

## String Manipulation

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 39)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/string.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\ (linux-master) (Documentation) (core-api) kernel-api.rst, line 42)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/string.h
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\ (linux-master) (Documentation) (core-api) kernel-api.rst, line 45)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: mm/util.c
:functions: kstrdup kstrdup_const kstrndup kmemdup kmemdup_nul memdup_user
vmemdup_user strndup_user memdup_user_nul
```

## Basic Kernel Library Functions

The Linux kernel provides more basic utility functions.

### Bit Operations

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\ (linux-master) (Documentation) (core-api) kernel-api.rst, line 57)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/asm-generic/bitops/instrumented-atomic.h
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\ (linux-master) (Documentation) (core-api) kernel-api.rst, line 60)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/asm-generic/bitops/instrumented-non-atomic.h
:internal:
```

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

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/asm-generic/bitops/instrumented-lock.h
:internal:
```

### Bitmap Operations

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\ (linux-master) (Documentation) (core-api) kernel-api.rst, line 69)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/bitmap.c
:doc: bitmap introduction
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 72)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/bitmap.h
:doc: declare bitmap
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 75)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/bitmap.h
:doc: bitmap overview
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 78)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/bitmap.h
:doc: bitmap bitops
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 81)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/bitmap.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 84)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/bitmap.c
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 87)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/bitmap.h
:internal:
```

## Command-line Parsing

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 93)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/cmdline.c
:export:
```

## Sorting

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

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/sort.c
:export:
```

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

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/list_sort.c
:export:
```

## Text Searching

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 108)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/textsearch.c
:doc: ts_intro
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 111)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/textsearch.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 114)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/textsearch.h
:functions: textsearch_find textsearch_next \
            textsearch_get_pattern textsearch_get_pattern_len
```

## CRC and Math Functions in Linux

### CRC Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 124)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc4.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 127)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc7.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 130)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc8.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 133)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc16.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 136)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc32.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 138)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc-ccitt.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 141)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/crc-itu-t.c
   :export:
```

## Base 2 log and power Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 147)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/log2.h
   :internal:
```

## Integer power Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 153)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/math/int_pow.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 156)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/math/int_sqrt.c
   :export:
```

## Division Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 162)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/asm-generic/div64.h
   :functions: do_div
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 165)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/math64.h
   :internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 168)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/math/div64.c
   :functions: div_s64_rem div64_u64_rem div64_u64 div64_s64
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 171)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/math/gcd.c
   :export:
```

## UUID/GUID

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 177)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: lib/uuid.c
:export:
```

## Kernel IPC facilities

### IPC utilities

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 186)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: ipc/util.c
:internal:
```

## FIFO Buffer

### kfifo interface

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 195)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/kfifo.h
:internal:
```

## relay interface support

Relay interface support is designed to provide an efficient mechanism for tools and facilities to relay large amounts of data from kernel space to user space.

### relay interface

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 208)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/relay.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 211)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/relay.c
:internal:
```

## Module Support

### Module Loading

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 220)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/kmod.c
:export:
```

## Inter Module support

Refer to the file kernel/module.c for more information.

## Hardware Interfaces

### DMA Channels

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 234)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/dma.c
:export:
```

### Resources Management

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 240)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/resource.c
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 243)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/resource.c
:export:
```

### MTRR Handling

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 249)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: arch/x86/kernel/cpu/mtrr/mtrr.c
:export:
```

## Security Framework

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 255)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: security/security.c
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-**



**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 258)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: security/inode.c
   :export:
```

## Audit Interfaces

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 264)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/audit.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 267)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/auditsc.c
   :internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 270)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/auditfilter.c
   :internal:
```

## Accounting Framework

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 276)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/acct.c
   :internal:
```

## Block Devices

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 282)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/bio.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 283)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-core.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 286)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-core.c
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 289)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-map.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 292)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-sysfs.c
:internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 295)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-settings.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 298)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-flush.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 301)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-lib.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 304)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/blk-integrity.c
:export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 307)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/trace/blktrace.c
   :internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 310)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/genhd.c
   :internal:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 313)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/genhd.c
   :export:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 316)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: block/bdev.c
   :export:
```

## Char devices

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 322)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: fs/char_dev.c
   :export:
```

## Clock Framework

The clock framework defines programming interfaces to support software management of the system clock tree. This framework is widely used with System-On-Chip (SOC) platforms to support power management and various devices which may need custom clock rates. Note that these "clocks" don't relate to timekeeping or real time clocks (RTCs), each of which have separate frameworks. These `:c:type: struct clk <clk>` instances may be used to manage for example a 96 MHz signal that is used to shift bits into and out of peripherals or busses, or otherwise trigger synchronous state machine transitions in system hardware.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 328); [backlink](#)**

Unknown interpreted text role "c:type".

Power management is supported by explicit software clock gating: unused clocks are disabled, so the system doesn't waste power changing the state of transistors that aren't in active use. On some systems this may be backed by hardware clock gating, where

clocks are gated without being disabled in software. Sections of chips that are powered but not clocked may be able to retain their last state. This low power state is often called a *retention mode*. This mode still incurs leakage currents, especially with finer circuit geometries, but for CMOS circuits power is mostly used by clocked state changes.

Power-aware drivers only enable their clocks when the device they manage is in active use. Also, system sleep states often differ according to which clock domains are active: while a "standby" state may allow wakeup from several active domains, a "mem" (suspend-to-RAM) state may require a more wholesale shutdown of clocks derived from higher speed PLLs and oscillators, limiting the number of possible wakeup event sources. A driver's suspend method may need to be aware of system-specific clock constraints on the target sleep state.

Some platforms support programmable clock generators. These can be used by external chips of various kinds, such as other CPUs, multimedia codecs, and devices with strict requirements for interface clocking.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 361)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/clk.h
   :internal:
```

## Synchronization Primitives

### Read-Copy Update (RCU)

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 370)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/rcupdate.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 372)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/rcu/tree.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 374)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/rcu/tree_exp.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 376)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/rcu/update.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 378)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/srcu.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 380)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/rcu/srcutree.c
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 382)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/rculist_bl.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 384)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/rculist.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 386)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/rculist_nulls.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 388)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/rcu_sync.h
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\linux-master) (Documentation) (core-api) kernel-api.rst, line 390)**

Unknown directive type "kernel-doc".

```
.. kernel-doc:: kernel/rcu/sync.c
```