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SCHED_YIELD(2)

Linux Programmer's Manual

SCHED_YIELD(2)

NAME [top](#)

`sched_yield` - yield the processor

SYNOPSIS [top](#)

```
#include <sched.h>

int sched_yield(void);
```

DESCRIPTION [top](#)

`sched_yield()` causes the calling thread to relinquish the CPU. The thread is moved to the end of the queue for its static priority and a new thread gets to run.

RETURN VALUE [top](#)

On success, **`sched_yield()`** returns 0. On error, -1 is returned, and *errno* is set appropriately.

ERRORS [top](#)

In the Linux implementation, **`sched_yield()`** always succeeds.

CONFORMING TO [top](#)

POSIX.1-2001, POSIX.1-2008.

NOTES [top](#)

If the calling thread is the only thread in the highest priority list at that time, it will continue to run after a call to **`sched_yield()`**.

POSIX systems on which **`sched_yield()`** is available define **`_POSIX_PRIORITY_SCHEDULING`** in *<unistd.h>*.

Strategic calls to **`sched_yield()`** can improve performance by giving other threads or processes a chance to run when (heavily) contended resources (e.g., mutexes) have been released by the caller. Avoid calling **`sched_yield()`** unnecessarily or inappropriately (e.g., when resources needed by other schedulable threads are still held by the caller), since doing so will result in unnecessary context switches, which will degrade system performance.

SEE ALSO [top](#)

[sched\(7\)](#)

COLOPHON [top](#)

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