### **NAME**

sched\_get\_priority\_max, sched\_get\_priority\_min - get static priority range

### **SYNOPSIS**

#include <sched.h>

int sched\_get\_priority\_max(int policy);

int sched\_get\_priority\_min(int policy);

# **DESCRIPTION**

**sched\_get\_priority\_max**() returns the maximum priority value that can be used with the scheduling algorithm identified by *policy*. **sched\_get\_priority\_min**() returns the minimum priority value that can be used with the scheduling algorithm identified by *policy*. Supported *policy* values are **SCHED\_FIFO**, **SCHED\_RR**, **SCHED\_OTHER**, and **SCHED\_BATCH**. Further details about these policies can be found in **sched\_setscheduler**(2).

Processes with numerically higher priority values are scheduled before processes with numerically lower priority values. Thus, the value returned by **sched\_get\_priority\_max**() will be greater than the value returned by **sched\_get\_priority\_min**().

Linux allows the static priority value range 1 to 99 for **SCHED\_FIFO** and **SCHED\_RR** and the priority 0 for **SCHED\_OTHER** and **SCHED\_BATCH**. Scheduling priority ranges for the various policies are not alterable.

The range of scheduling priorities may vary on other POSIX systems, thus it is a good idea for portable applications to use a virtual priority range and map it to the interval given by **sched\_get\_priority\_max**() and **sched\_get\_priority\_min**(). POSIX.1-2001 requires a spread of at least 32 between the maximum and the minimum values for **SCHED\_FIFO** and **SCHED\_RR**.

POSIX systems on which **sched\_get\_priority\_max**() and **sched\_get\_priority\_min**() are available define **\_POSIX\_PRIORITY\_SCHEDULING** in *<unistd.h>*.

### **RETURN VALUE**

On success, **sched\_get\_priority\_max**() and **sched\_get\_priority\_min**() return the maximum/minimum priority value for the named scheduling policy. On error, -1 is returned, and *errno* is set appropriately.

### **ERRORS**

**EINVAL** 

The argument *policy* does not identify a defined scheduling policy.

### **CONFORMING TO**

POSIX.1-2001.

## **SEE ALSO**

 $sched\_getaffinity(2), \quad sched\_getparam(2), \quad sched\_getscheduler(2), \quad sched\_setaffinity(2), \quad sched\_setscheduler(2), \\ \\ sched\_setscheduler(2), \quad sched\_setscheduler(2), \\ \\ sched\_setscheduler(2), \quad sched\_setscheduler(2), \\ \\ sched\_setscheduler(2), \\ sched\_setscheduler($ 

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### **COLOPHON**

This page is part of release 3.22 of the Linux *man-pages* project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.