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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'clock_getcpuclockid.3p' command

\$ man clock_getcpuclockid.3p

CLOCK_GETCPULOCKID(3P) POSIX Programmer's Manual CLOCK_GETCPULOCKID(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

clock_getcpuclockid ? access a process CPU-time clock (ADVANCED REAL? TIME)

SYNOPSIS

```
#include <time.h>

int clock_getcpuclockid(pid_t pid, clockid_t *clock_id);
```

DESCRIPTION

The clock_getcpuclockid() function shall return the clock ID of the CPU-time clock of the process specified by pid. If the process described by pid exists and the calling process has permission, the clock ID of this clock shall be returned in clock_id.

If pid is zero, the clock_getcpuclockid() function shall return the clock ID of the CPU-time clock of the process making the call, in clock_id.

The conditions under which one process has permission to obtain the CPU-time clock ID of other processes are implementation-defined.

RETURN VALUE

Upon successful completion, `clock_getcpuclockid()` shall return zero; otherwise, an error number shall be returned to indicate the error.

ERRORS

The `clock_getcpuclockid()` function shall fail if:

EPERM The requesting process does not have permission to access the CPU-time clock for the process.

The `clock_getcpuclockid()` function may fail if:

ESRCH No process can be found corresponding to the process specified by pid.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

The `clock_getcpuclockid()` function is part of the Process CPU-Time Clocks option and need not be provided on all implementations.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`clock_getres()`, `timer_create()`

The Base Definitions volume of POSIX.1-2017, `<time.h>`

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