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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sys_resource.h.0p' command

$ man sys_resource.h.0p

sys_resource.h(0P) POSIX Programmer's Manual sys_resource.h(0P)

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

sys/resource.h ? definitions for XSI resource operations

SYNOPSIS

#include <sys/resource.h>

DESCRIPTION

The <sys/resource.h> header shall define the following symbolic con? stants as possible values of the which argument of getpriority() and setpriority():

PRIO_PROCESS Identifies the who argument as a process ID.

PRIO_PGRP Identifies the who argument as a process group ID.

PRIO_USER Identifies the who argument as a user ID.

The <sys/resource.h> header shall define the following type through typedef:

rlim_t Unsigned integer type used for limit values.

The <sys/resource.h> header shall define the following symbolic con? stants, which shall have values suitable for use in #if preprocessing directives:

RLIM_INFINITY A value of rlim_t indicating no limit.

RLIM_SAVED_MAX A value of type rlim_t indicating an unrepresentable saved hard limit.

RLIM_SAVED_CUR A value of type rlim_t indicating an unrepresentable saved soft limit.

On implementations where all resource limits are representable in an object of type rlim_t, RLIM_SAVED_MAX and RLIM_SAVED_CUR need not be distinct from RLIM_INFINITY.

The <sys/resource.h> header shall define the following symbolic con? stants as possible values of the who parameter of getrusage():

RUSAGE_SELF Returns information about the current process.

RUSAGE_CHILDREN Returns information about children of the current process.

The <sys/resource.h> header shall define the rlimit structure, which shall include at least the following members:

rlim_t rlim_cur The current (soft) limit.

rlim_t rlim_max The hard limit.

The <sys/resource.h> header shall define the rusage structure, which shall include at least the following members:

struct timeval ru_utime User time used.

struct timeval ru_stime System time used.

The <sys/resource.h> header shall define the timeval structure as de? scribed in <sys/time.h>.

The <sys/resource.h> header shall define the following symbolic con? stants as possible values for the resource argument of getrlimit() and setrlimit():

RLIMIT_CORE Limit on size of core file.

RLIMIT_CPU Limit on CPU time per process.

RLIMIT_DATA Limit on data segment size.

RLIMIT_FSIZE Limit on file size.

RLIMIT_NOFILE Limit on number of open files.

RLIMIT_STACK Limit on stack size.

RLIMIT_AS Limit on address space size.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
int  getpriority(int, id_t);
int  getrlimit(int, struct rlimit *);
int  getrusage(int, struct rusage *);
int  setpriority(int, id_t, int);
int  setrlimit(int, const struct rlimit *);
```

The <sys/resource.h> header shall define the id_t type through typedef, as described in <sys/types.h>.

Inclusion of the <sys/resource.h> header may also make visible all sym? bols from <sys/time.h>.

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<sys_time.h>, <sys_types.h>

The System Interfaces volume of POSIX.1?2017, getpriority(), getr? limit(), getrusage()

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