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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'spawn.h.0p' command***

**\$ man spawn.h.0p**

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

spawn.h ? spawn (ADVANCED REALTIME)

### SYNOPSIS

```
#include <spawn.h>
```

### DESCRIPTION

The <spawn.h> header shall define the `posix_spawnattr_t` and `posix_spawn_file_actions_t` types used in performing spawn operations.

The <spawn.h> header shall define the `mode_t` and `pid_t` types as described in <sys/types.h>.

The <spawn.h> header shall define the `sigset_t` type as described in <signal.h>.

The tag `sched_param` shall be declared as naming an incomplete structure type, the contents of which are described in the <sched.h> header.

The <spawn.h> header shall define the following symbolic constants for use as the flags that may be set in a `posix_spawnattr_t` object using the `posix_spawnattr_setflags()` function:

POSIX\_SPAWN\_RESETIDS

POSIX\_SPAWN\_SETPGROUP

POSIX\_SPAWN\_SETSCHEDPARAM

POSIX\_SPAWN\_SETSCHEDULER

POSIX\_SPAWN\_SETSIGDEF

POSIX\_SPAWN\_SETSIGMASK

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

```
int posix_spawn(pid_t *restrict, const char *restrict,
               const posix_spawn_file_actions_t *,
               const posix_spawnattr_t *restrict, char *const [restrict],
               char *const [restrict]);

int posix_spawn_file_actions_addclose(posix_spawn_file_actions_t *,
                                     int);

int posix_spawn_file_actions_adddup2(posix_spawn_file_actions_t *,
                                     int, int);

int posix_spawn_file_actions_addopen(posix_spawn_file_actions_t *restrict,
                                     int, const char *restrict, int, mode_t);

int posix_spawn_file_actions_destroy(posix_spawn_file_actions_t *);

int posix_spawn_file_actions_init(posix_spawn_file_actions_t *);

int posix_spawnattr_destroy(posix_spawnattr_t *);

int posix_spawnattr_getflags(const posix_spawnattr_t *restrict,
                             short *restrict);

int posix_spawnattr_getpgroup(const posix_spawnattr_t *restrict,
                              pid_t *restrict);

int posix_spawnattr_getschedparam(const posix_spawnattr_t *restrict,
                                  struct sched_param *restrict);

int posix_spawnattr_getschedpolicy(const posix_spawnattr_t *restrict,
                                   int *restrict);

int posix_spawnattr_getsigdefault(const posix_spawnattr_t *restrict,
                                  sigset_t *restrict);

int posix_spawnattr_getsigmask(const posix_spawnattr_t *restrict,
                               sigset_t *restrict);

int posix_spawnattr_init(posix_spawnattr_t *);
```

```

int  posix_spawnattr_setflags(posix_spawnattr_t *, short);
int  posix_spawnattr_setpgroup(posix_spawnattr_t *, pid_t);
int  posix_spawnattr_setschedparam(posix_spawnattr_t *restrict,
    const struct sched_param *restrict);
int  posix_spawnattr_setschedpolicy(posix_spawnattr_t *, int);
int  posix_spawnattr_setsigdefault(posix_spawnattr_t *restrict,
    const sigset_t *restrict);
int  posix_spawnattr_setsigmask(posix_spawnattr_t *restrict,
    const sigset_t *restrict);
int  posix_spawnnp(pid_t *restrict, const char *restrict,
    const posix_spawn_file_actions_t *,
    const posix_spawnattr_t *restrict,
    char *const [restrict], char *const [restrict]);

```

Inclusion of the <spawn.h> header may make visible symbols defined in the <sched.h> and <signal.h> headers.

The following sections are informative.

#### APPLICATION USAGE

None.

#### RATIONALE

None.

#### FUTURE DIRECTIONS

None.

#### SEE ALSO

<sched.h>, <semaphore.h>, <signal.h>, <sys\_types.h>

The System Interfaces volume of POSIX.1-2017, `posix_spawn()`, `posix_spawn_file_actions_addclose()`, `posix_spawn_file_actions_adddup2()`, `posix_spawn_file_actions_destroy()`, `posix_spawnattr_destroy()`, `posix_spawnattr_getflags()`, `posix_spawnattr_getpgroup()`, `posix_spawnattr_getschedparam()`, `posix_spawnattr_getschedpolicy()`, `posix_spawnattr_getsigdefault()`, `posix_spawnattr_getsigmask()`

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