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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'pthread\_condattr\_destroy.3p' command**

**\$ man pthread\_condattr\_destroy.3p**

PTHREAD\_CONDATTR\_DESTROY(3P)  
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### 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

pthread\_condattr\_destroy, pthread\_condattr\_init ? destroy and initial?  
ize the condition variable attributes object

### SYNOPSIS

```
#include <pthread.h>

int pthread_condattr_destroy(pthread_condattr_t *attr);

int pthread_condattr_init(pthread_condattr_t *attr);
```

### DESCRIPTION

The pthread\_condattr\_destroy() function shall destroy a condition variable attributes object; the object becomes, in effect, uninitialized. An implementation may cause pthread\_condattr\_destroy() to set the object referenced by attr to an invalid value. A destroyed attr attributes object can be reinitialized using pthread\_condattr\_init(); the results of otherwise referencing the object after it has been destroyed are undefined.

The pthread\_condattr\_init() function shall initialize a condition variable attributes object attr with the default value for all of the attr

tributes defined by the implementation.

Results are undefined if `pthread_condattr_init()` is called specifying an already initialized attr attributes object.

After a condition variable attributes object has been used to initialize one or more condition variables, any function affecting the attributes object (including destruction) shall not affect any previously initialized condition variables.

This volume of POSIX.1-2017 requires two attributes, the clock attribute and the process-shared attribute.

Additional attributes, their default values, and the names of the associated functions to get and set those attribute values are implementation-defined.

The behavior is undefined if the value specified by the attr argument to `pthread_condattr_destroy()` does not refer to an initialized condition variable attributes object.

## RETURN VALUE

If successful, the `pthread_condattr_destroy()` and `pthread_condattr_init()` functions shall return zero; otherwise, an error number shall be returned to indicate the error.

## ERRORS

The `pthread_condattr_init()` function shall fail if:

**ENOMEM** Insufficient memory exists to initialize the condition variable attributes object.

These functions shall not return an error code of `[EINTR]`.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

None.

## RATIONALE

A process-shared attribute has been defined for condition variables for the same reason it has been defined for mutexes.

If an implementation detects that the value specified by the attr argu?

ment to `pthread_condattr_destroy()` does not refer to an initialized condition variable attributes object, it is recommended that the function should fail and report an [EINVAL] error.

See also `pthread_attr_destroy()` and `pthread_mutex_destroy()`.

#### FUTURE DIRECTIONS

None.

#### SEE ALSO

`pthread_attr_destroy()`, `pthread_cond_destroy()`, `pthread_condattr_getpshared()`, `pthread_create()`, `pthread_mutex_destroy()`

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

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