

**NAME**

**pthread\_cond\_init** - create a condition variable

**LIBRARY**

POSIX Threads Library (libpthread, -lpthread)

**SYNOPSIS**

```
#include <pthread.h>
```

*int*

```
pthread_cond_init(pthread_cond_t *restrict cond, const pthread_condattr_t *restrict attr);
```

**DESCRIPTION**

The **pthread\_cond\_init()** function creates a new condition variable, with attributes specified with *attr*. If *attr* is NULL the default attributes are used.

**RETURN VALUES**

If successful, the **pthread\_cond\_init()** function will return zero and put the new condition variable id into *cond*, otherwise an error number will be returned to indicate the error.

**ERRORS**

The **pthread\_cond\_init()** function will fail if:

- |          |  |
|----------|--|
| [EINVAL] | The value specified by <i>attr</i> is invalid.                                   |
| [ENOMEM] | The process cannot allocate enough memory to create another condition variable.  |
| [EAGAIN] | The system temporarily lacks the resources to create another condition variable. |

**SEE ALSO**

pthread\_cond\_broadcast(3), pthread\_cond\_destroy(3), pthread\_cond\_signal(3),  
pthread\_cond\_timedwait(3), pthread\_cond\_wait(3), pthread\_condattr(3)

**STANDARDS**

The **pthread\_cond\_init()** function conforms to ISO/IEC 9945-1:1996 ("POSIX.1").