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

$ man _longjmp.3p

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

_longjmp, _setjmp ? non-local goto

SYNOPSIS

#include <setjmp.h>

void _longjmp(jmp_buf env, int val);

int _setjmp(jmp_buf env);

DESCRIPTION

The _longjmp() and _setjmp() functions shall be equivalent to longjmp() and setjmp(), respectively, with the additional restriction that _longjmp() and _setjmp() shall not manipulate the signal mask.

If _longjmp() is called even though env was never initialized by a call to _setjmp(), or when the last such call was in a function that has since returned, the results are undefined.

RETURN VALUE

Refer to longjmp() and setjmp().

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

If _longjmp() is executed and the environment in which _setjmp() was executed no longer exists, errors can occur. The conditions under which the environment of the _setjmp() no longer exists include exiting the function that contains the _setjmp() call, and exiting an inner block with temporary storage. This condition might not be detectable, in which case the _longjmp() occurs and, if the environment no longer ex? ists, the contents of the temporary storage of an inner block are un? predictable. This condition might also cause unexpected process termi? nation. If the function has returned, the results are undefined.

Passing longjmp() a pointer to a buffer not created by setjmp(), pass? ing _longjmp() a pointer to a buffer not created by _setjmp(), passing siglongjmp() a pointer to a buffer not created by sigsetjmp(), or pass? ing any of these three functions a buffer that has been modified by the user can cause all the problems listed above, and more.

The _longjmp() and _setjmp() functions are included to support programs written to historical system interfaces. New applications should use siglongjmp() and sigsetjmp() respectively.

RATIONALE

None.

FUTURE DIRECTIONS

The _longjmp() and _setjmp() functions may be removed in a future ver? sion.

SEE ALSO

longjmp(), setjmp(), siglongjmp(), sigsetjmp()

The Base Definitions volume of POSIX.1?2017, <setjmp.h>

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