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

$ man error_one_per_line.3

ERROR(3) Linux Programmer's Manual ERROR(3)

NAME

error, error_at_line, error_message_count, error_one_per_line, er?

ror_print_progname - glibc error reporting functions

SYNOPSIS

#include <error.h>

void error(int status, int errnum, const char *format, ...);

void error_at_line(int status, int errnum, const char *filename,

unsigned int linenum, const char *format, ...);

extern unsigned int error_message_count;

extern int error_one_per_line;

extern void (*error_print_progname) (void);

DESCRIPTION

error() is a general error-reporting function. It flushes stdout, and

then outputs to stderr the program name, a colon and a space, the mes?

sage specified by the printf(3)-style format string format, and, if er?

rnum is nonzero, a second colon and a space followed by the string

given by strerror(errnum). Any arguments required for format should

follow format in the argument list. The output is terminated by a new?

line character.

The program name printed by error() is the value of the global variable

program_invocation_name(3). program_invocation_name initially has the

same value as main()'s argv[0]. The value of this variable can be mod?

ified to change the output of error().

If status has a nonzero value, then error() calls exit(3) to terminate the program using the given value as the exit status.

The error_at_line() function is exactly the same as error(), except for the addition of the arguments filename and linenum. The output pro? duced is as for error(), except that after the program name are writ? ten: a colon, the value of filename, a colon, and the value of linenum.

The preprocessor values __LINE__ and __FILE__ may be useful when call? ing error_at_line(), but other values can also be used. For example, these arguments could refer to a location in an input file.

If the global variable error_one_per_line is set nonzero, a sequence of error_at_line() calls with the same value of filename and linenum will result in only one message (the first) being output.

The global variable error_message_count counts the number of messages that have been output by error() and error_at_line().

If the global variable error_print_progname is assigned the address of a function (i.e., is not NULL), then that function is called instead of prefixing the message with the program name and colon. The function should print a suitable string to stderr.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

Interface	Attribute	Value
error()	Thread safety	MT-Safe locale
error_at_line()	Thread safety	MT-Unsafe race: error_at_line/er? ? ? ? ? ror_one_per_line locale ?

The internal error_one_per_line variable is accessed (without any form of synchronization, but since it's an int used once, it should be safe enough) and, if error_one_per_line is set nonzero, the internal static

variables (not exposed to users) used to hold the last printed filename and line number are accessed and modified without synchronization; the update is not atomic and it occurs before disabling cancellation, so it can be interrupted only after one of the two variables is modified. After that, error_at_line() is very much like error().

CONFORMING TO

These functions and variables are GNU extensions, and should not be used in programs intended to be portable.

SEE ALSO

err(3), errno(3), exit(3), perror(3), program_invocation_name(3), str?error(3)

COLOPHON

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