

NAME

iconvctl - controlling and diagnostical facility for iconv(3)

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <iconv.h>
```

int

```
iconvctl(iconv_t cd, int request, void *argument);
```

DESCRIPTION

The **iconvctl()** function can retrieve or set specific conversion setting from the *cd* conversion descriptor. The *request* parameter specifies the operation to accomplish and *argument* is an operation-specific argument.

The possible operations are the following:

ICONV_TRIVIALP

In this case *argument* is an *int ** variable, which is set to 1 if the encoding is trivial one, i.e. the input and output encodings are the same. Otherwise, the variable will be 0.

ICONV_GET_TRANSLITERATE

Determines if transliteration is enabled. The answer is stored in *argument*, which is of *int **. It will be set to 1 if this feature is enabled or set to 0 otherwise.

ICONV_SET_TRANSLITERATE

Enables transliteration if *argument*, which is of *int ** set to 1 or disables it if *argument* is set to 0.

ICONV_GET_DISCARD_ILSEQ

Determines if illegal sequences are discarded or not. The answer is stored in *argument*, which is of *int **. It will be set to 1 if this feature is enabled or set to 0 otherwise.

ICONV_SET_DISCARD_ILSEQ

Sets whether illegal sequences are discarded or not. *argument*, which is of *int ** set to 1 or disables it if *argument* is set to 0.

ICONV_SET_HOOKS

Sets callback functions, which will be called back after successful conversions. The callback

functions are stored in a *struct iconv_hooks* variable, which is passed to **iconvctl** via *argument* by its address.

ICONV_GET_ILSEQ_INVALID

Determines if a character in the input buffer that is valid, but for which an identical character does not exist in the target codeset returns EILSEQ or not. The answer is stored in *argument*, which is of *int **. It will be set to 1 if this feature is enabled or set to 0 otherwise.

ICONV_SET_ILSEQ_INVALID

Sets whether a character in the input buffer that is valid, but for which an identical character does not exist in the target codeset returns EILSEQ or not. If *argument*, which is of *int ** is set to 1 it will be enabled, and if *argument* is set to 0 it will be disabled.

RETURN VALUES

Upon successful completion **iconvctl()**, returns 0. Otherwise, -1 is returned and *errno* is set to specify the kind of error.

ERRORS

The **iconvctl()** function may cause an error in the following cases:

[EINVAL]	Unknown or unimplemented operation.
[EBADF]	The conversion descriptor specified by <i>cd</i> is invalid.

SEE ALSO

iconv(1), *iconv(3)*

STANDARDS

The **iconvctl** facility is a non-standard extension, which appeared in the GNU implementation and was adopted in FreeBSD 9.0 for compatibility's sake.

AUTHORS

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BUGS

Transliteration is enabled in this implementation by default, so it is impossible by design to turn it off. Accordingly, trying to turn it off will always fail and -1 will be returned. Getting the transliteration state will always succeed and indicate that it is turned on, though.