NAME

PCRE2 - Perl-compatible regular expressions (revised API)

SYNOPSIS

#include <pcre2.h>

int pcre2_pattern_info(const pcre2_code *code, uint32_t what,
 void *where);

DESCRIPTION

This function returns information about a compiled pattern. Its arguments are:

code Pointer to a compiled regular expression pattern

what What information is requiredwhere Where to put the information

The recognized values for the what argument, and the information they request are as follows:

PCRE2_INFO_ALLOPTIONS Final options after compiling

PCRE2_INFO_ARGOPTIONS Options passed topcr e2_compile()

PCRE2_INFO_BACKREFMAX Number of highest backreference

PCRE2_INFO_BSR What \R matches:

PCRE2_BSR_UNICODE: Unicode line endings

PCRE2_BSR_ANYCRLF: CR, LF, or CRLF only

PCRE2_INFO_CAPTURECOUNT Number of capturing subpatterns

PCRE2_INFO_DEPTHLIMIT Backtracking depth limit if set,

otherwise PCRE2_ERROR_UNSET

PCRE2_INFO_EXTRAOPTIONS Extra options that were passed in the compile context

PCRE2_INFO_FIRSTBITMAP Bitmap of first code units, or NULL

PCRE2_INFO_FIRSTCODETYPE Type of start-of-match information

0 nothing set

1 first code unit is set

2 start of string or after newline

PCRE2_INFO_FIRSTCODEUNIT First code unit when type is 1

PCRE2_INFO_FRAMESIZE Size of backtracking frame

PCRE2_INFO_HASBACKSLASHC Return 1 if pattern contains \C

PCRE2_INFO_HASCRORLF Return 1 if explicit CR or LF matches exist in the pattern

PCRE2_INFO_HEAPLIMIT Heap memory limit if set,

otherwise PCRE2_ERROR_UNSET

PCRE2_INFO_JCHANGED Return 1 if (?J) or (?-J) was used

PCRE2 INFO JITSIZE Size of JIT compiled code, or 0

PCRE2_INFO_LASTCODETYPE Type of must-be-present information

0 nothing set

1 code unit is set

PCRE2_INFO_LASTCODEUNIT Last code unit when type is 1

PCRE2_INFO_MATCHEMPTY 1 if the pattern can match an

empty string, 0 otherwise

PCRE2_INFO_MATCHLIMIT Match limit if set,

otherwise PCRE2_ERROR_UNSET

PCRE2_INFO_MAXLOOKBEHIND Length (in characters) of the longest lookbehind assertion

PCRE2_INFO_MINLENGTH Lower bound length of matching strings

```
PCRE2_INFO_NAMECOUNT
                          Number of named subpatterns
PCRE2_INFO_NAMEENTRYSIZE Size of name table entries
PCRE2_INFO_NAMETABLE
                          Pointer to name table
                          Code for the newline sequence:
PCRE2_CONFIG_NEWLINE
             PCRE2 NEWLINE CR
             PCRE2 NEWLINE LF
             PCRE2_NEWLINE_CRLF
             PCRE2_NEWLINE_ANY
             PCRE2 NEWLINE ANYCRLF
             PCRE2_NEWLINE_NUL
PCRE2_INFO_RECURSIONLIMIT Obsolete synonym for PCRE2_INFO_DEPTHLIMIT
PCRE2_INFO_SIZE
                     Size of compiled pattern
```

If *where* is NULL, the function returns the amount of memory needed for the requested information, in bytes. Otherwise, the *where* argument must point to an unsigned 32-bit integer (uint32_t variable), except for the following *what* values, when it must point to a variable of the type shown:

```
PCRE2_INFO_FIRSTBITMAP const uint8_t *
PCRE2_INFO_JITSIZE size_t
PCRE2_INFO_NAMETABLE PCRE2_SPTR
PCRE2_INFO_SIZE size_t
```

The yield of the function is zero on success or:

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PCRE2_ERROR_NULL the argument code is NULL

PCRE2_ERROR_BADMAGIC the "magic number" was not found

PCRE2_ERROR_BADOPTION the value of what is invalid

PCRE2_ERROR_BADMODE the pattern was compiled in the wrong mode

PCRE2_ERROR_UNSET the requested information is not set
```

There is a complete description of the PCRE2 native API in the **pcre2api** page and a description of the POSIX API in the **pcre2posix** page.