## NAME

PCRE - Perl-compatible regular expressions

## SYNOPSIS

**#include <pcre.h>**

**int pcre_fullinfo(const pcre **code*, const pcre_extra **extra*,**
**int** *what*, **void **where**);

**int pcre16_fullinfo(const pcre16 **code*, const pcre16_extra **extra*,**
**int** *what*, **void **where**);

**int pcre32_fullinfo(const pcre32 **code*, const pcre32_extra **extra*,**
**int** *what*, **void **where**);

## DESCRIPTION

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

| | |
|---|---|
| *code* | Compiled regular expression |
| *extra* | Result of **pcre[16\|32]_study()** or NULL |
| *what* | What information is required |
| *where* | Where to put the information |

The following information is available:

| | |
|---|---|
| PCRE_INFO_BACKREFMAX | Number of highest back reference |
| PCRE_INFO_CAPTURECOUNT | Number of capturing subpatterns |
| PCRE_INFO_DEFAULT_TABLES | Pointer to default tables |
| PCRE_INFO_FIRSTBYTE | Fixed first data unit for a match, or<br>-1 for start of string<br>or after newline, or<br>-2 otherwise |
| PCRE_INFO_FIRSTTABLE | Table of first data units (after studying) |
| PCRE_INFO_HASCRORLF | Return 1 if explicit CR or LF matches exist |
| PCRE_INFO_JCHANGED | Return 1 if (?J) or (?-J) was used |
| PCRE_INFO_JIT | Return 1 after successful JIT compilation |
| PCRE_INFO_JITSIZE | Size of JIT compiled code |
| PCRE_INFO_LASTLITERAL | Literal last data unit required |
| PCRE_INFO_MINLENGTH | Lower bound length of matching strings |
| PCRE_INFO_MATCHEMPTY | Return 1 if the pattern can match an empty string, |

0 otherwise

PCRE_INFO_MATCHLIMIT Match limit if set, otherwise PCRE_RROR_UNSET

PCRE_INFO_MAXLOOKBEHIND Length (in characters) of the longest lookbehind assertion

PCRE_INFO_NAMECOUNT Number of named subpatterns

PCRE_INFO_NAMEENTRYSIZE Size of name table entry

PCRE_INFO_NAMETABLE Pointer to name table

PCRE_INFO_OKPARTIAL Return 1 if partial matching can be tried
(always returns 1 after release 8.00)

PCRE_INFO_OPTIONS Option bits used for compilation

PCRE_INFO_SIZE Size of compiled pattern

PCRE_INFO_STUDYSIZE Size of study data

PCRE_INFO_FIRSTCHARACTER Fixed first data unit for a match

PCRE_INFO_FIRSTCHARACTERFLAGS Returns
1 if there is a first data character set, which can
then be retrieved using PCRE_INFO_FIRSTCHARACTER,
2 if the first character is at the start of the data
string or after a newline, and
0 otherwise

PCRE_INFO_RECURSIONLIMIT Recursion limit if set, otherwise PCRE_ERROR_UNSET

PCRE_INFO_REQUIREDCHAR Literal last data unit required

PCRE_INFO_REQUIREDCHARFLAGS Returns 1 if the last data character is set (which can then be retrieved using PCRE_INFO_REQUIREDCHAR); 0 otherwise

The *where* argument must point to an integer variable, except for the following *what* values:

PCRE_INFO_DEFAULT_TABLES const uint8_t *

PCRE_INFO_FIRSTCHARACTER uint32_t

PCRE_INFO_FIRSTTABLE const uint8_t *

PCRE_INFO_JITSIZE size_t

PCRE_INFO_MATCHLIMIT uint32_t

PCRE_INFO_NAMETABLE PCRE_SPTR16 (16-bit library)

PCRE_INFO_NAMETABLE PCRE_SPTR32 (32-bit library)

PCRE_INFO_NAMETABLE const unsigned char * (8-bit library)

PCRE_INFO_OPTIONS unsigned long int

PCRE_INFO_SIZE size_t

PCRE_INFO_STUDYSIZE size_t

PCRE_INFO_RECURSIONLIMIT uint32_t

PCRE_INFO_REQUIREDCHAR uint32_t

The yield of the function is zero on success or:

| | |
|---|---|
| PCRE_ERROR_NULL | the argument *code* was NULL |
| | the argument *where* was NULL |
| PCRE_ERROR_BADMAGIC | the "magic number" was not found |
| PCRE_ERROR_BADOPTION | the value of *what* was invalid |
| PCRE_ERROR_UNSET | the option was not set |

There is a complete description of the PCRE native API in the **pcreapi** page and a description of the POSIX API in the **pcreposix** page.