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
                 -1 for start of string
                   or after newline, or
                 -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.