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.