

**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:

<i>code</i>	Compiled regular expression
<i>extra</i>	Result of <b>pcre[16 32]_study()</b> or NULL
<i>what</i>	What information is required
<i>where</i>	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_HASCORLRF	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.