## NAME

PCRE - Perl-compatible regular expressions

## SYNOPSIS

#include <pcre.h>

## DESCRIPTION

This function compiles a regular expression into an internal form. It is the same as **pcre[16|32]\_compile2**(), except for the absence of the *errorcodeptr* argument. Its arguments are:

pattern	A zero-terminated string containing the
	regular expression to be compiled
options	Zero or more option bits
errptr	Where to put an error message
erroffset	Offset in pattern where error was found
tableptr	Pointer to character tables, or NULL to
	use the built-in default

The option bits are:

PCRE\_ANCHOREDForce pattern anchoringPCRE\_AUTO\_CALLOUTCompile automatic calloutsPCRE\_BSR\_ANYCRLF\R matches only CR, LF, or CRLFPCRE\_BSR\_UNICODE\R matches all Unicode line endingsPCRE\_CASELESSDo caseless matchingPCRE\_DOLLAR\_ENDONLY\$ not to match newline at endPCRE\_DOTALL. matches anything including NLPCRE\_DUPNAMESAllow duplicate names for subpatterns

PCRE\_EXTENDED Ignore white space and # comments

PCRE\_EXTRA PCRE extra features

(not much use currently)

PCRE\_FIRSTLINE Force matching to be before newline

PCRE\_JAVASCRIPT\_COMPAT JavaScript compatibility

PCRE\_MULTILINE ^ and \$ match newlines within data

PCRE\_NEVER\_UTF Lock out UTF, e.g. via (\*UTF)

- PCRE\_NEWLINE\_ANY Recognize any Unicode newline sequence
- PCRE\_NEWLINE\_ANYCRLF Recognize CR, LF, and CRLF as newline

sequences

PCRE\_NEWLINE\_CR Set CR as the newline sequence

PCRE\_NEWLINE\_CRLF Set CRLF as the newline sequence

PCRE\_NEWLINE\_LF Set LF as the newline sequence

PCRE\_NO\_AUTO\_CAPTURE Disable numbered capturing parentheses (named ones available)

PCRE\_NO\_AUTO\_POSSESS Disable auto-possessification

PCRE\_NO\_START\_OPTIMIZE Disable match-time start optimizations

PCRE\_NO\_UTF16\_CHECK Do not check the pattern for UTF-16 validity (only relevant if

PCRE UTF16 is set)

PCRE\_NO\_UTF32\_CHECK Do not check the pattern for UTF-32 validity (only relevant if

PCRE\_UTF32 is set)

PCRE\_NO\_UTF8\_CHECK Do not check the pattern for UTF-8 validity (only relevant if

PCRE\_UTF8 is set)

PCRE\_UCP Use Unicode properties for d, w, etc.

PCRE\_UNGREEDY Invert greediness of quantifiers

PCRE\_UTF16 Run in pcre16\_compile() UTF-16 mode

PCRE\_UTF32 Run in pcre32\_compile() UTF-32 mode

PCRE\_UTF8 Run in pcre\_compile() UTF-8 mode

PCRE must be built with UTF support in order to use PCRE\_UTF8/16/32 and PCRE\_NO\_UTF8/16/32\_CHECK, and with UCP support if PCRE\_UCP is used.

The yield of the function is a pointer to a private data structure that contains the compiled pattern, or NULL if an error was detected. Note that compiling regular expressions with one version of PCRE for use with a different version is not guaranteed to work and may cause crashes.

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.