NAME

PCRE - Perl-compatible regular expressions

SYNOPSIS

```
#include <pcre.h>
pcre *pcre_compile(const char *pattern, int options,
    const char **errptr, int *erroffset,
    const unsigned char *tableptr);

pcre16 *pcre16_compile(PCRE_SPTR16 pattern, int options,
    const char **errptr, int *erroffset,
    const unsigned char *tableptr);

pcre32 *pcre32_compile(PCRE_SPTR32 pattern, int options,
    const char **errptr, int *erroffset,
    const unsigned char *tableptr);
```

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 foundtableptr Pointer to character tables, or NULL to

use the built-in default

The option bits are:

PCRE_ANCHORED Force pattern anchoring

PCRE_AUTO_CALLOUT Compile automatic callouts

PCRE_BSR_ANYCRLF \R matches only CR, LF, or CRLF

PCRE_BSR_UNICODE \R matches all Unicode line endings

PCRE_CASELESS Do caseless matching

PCRE_DOLLAR_ENDONLY \$ not to match newline at end

PCRE_DOTALL . matches anything including NL

PCRE_DUPNAMES Allow 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 paren-

theses (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)

 $PCRE_UCP \qquad \qquad Use \ Unicode \ properties \ for \ \backslash d, \ \backslash w, \ etc.$

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.