

NAME

PCRE2 - Perl-compatible regular expressions (revised API)

SYNOPSIS

```
#include <pcre2.h>
```

```
int pcre2_jit_compile(pcre2_code *code, uint32_t options);
```

DESCRIPTION

This function requests JIT compilation, which, if the just-in-time compiler is available, further processes a compiled pattern into machine code that executes much faster than the **pcre2_match()** interpretive matching function. Full details are given in the **pcre2jit** documentation.

The first argument is a pointer that was returned by a successful call to **pcre2_compile()**, and the second must contain one or more of the following bits:

PCRE2_JIT_COMPLETE compile code for full matching
PCRE2_JIT_PARTIAL_SOFT compile code for soft partial matching
PCRE2_JIT_PARTIAL_HARD compile code for hard partial matching

There is also an obsolete option called PCRE2_JIT_INVALID_UTF, which has been superseded by the **pcre2_compile()** option PCRE2_MATCH_INVALID_UTF. The old option is deprecated and may be removed in the future.

The yield of the function is 0 for success, or a negative error code otherwise. In particular, PCRE2_ERROR_JIT_BADOPTION is returned if JIT is not supported or if an unknown bit is set in *options*. The function can also return PCRE2_ERROR_NOMEMORY if JIT is unable to allocate executable memory for the compiler, even if it was because of a system security restriction.

There is a complete description of the PCRE2 native API in the **pcre2api** page and a description of the POSIX API in the **pcre2posix** page.