

**NAME**

PCRE2 - Perl-compatible regular expressions (revised API)

**SYNOPSIS**

```
#include <pcr2.h>
```

```
int pcr2_jit_compile(pcr2_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 **pcr2\_match()** interpretive matching function. Full details are given in the **pcr2jit** documentation.

The first argument is a pointer that was returned by a successful call to **pcr2\_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There is also an obsolete option called PCRE2\_JIT\_INVALID\_UTF, which has been superseded by the **pcr2\_compile()** option PCRE2\_MATCH\_INVALID\_UTF.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 **pcr2api** page and a description of the POSIX API in the **pcr2posix** page.