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Rocky Enterprise Linux 9.2 Manual Pages on command 'OPENSSL_fork_prepare.3oss1'

\$ man OPENSSL_fork_prepare.3oss1

OPENSSL_FORK_PREPARE(3oss1) OpenSSL OPENSSL_FORK_PREPARE(3oss1)

NAME

OPENSSL_fork_prepare, OPENSSL_fork_parent, OPENSSL_fork_child - OpenSSL
fork handlers

SYNOPSIS

```
#include <openssl/crypto.h>
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL_API_COMPAT with a suitable version value, see openssl_user_macros(7):

```
void OPENSSL_fork_prepare(void);
```

```
void OPENSSL_fork_parent(void);
```

```
void OPENSSL_fork_child(void);
```

DESCRIPTION

These methods are currently unused, and as such, no replacement methods are required or planned.

OpenSSL has state that should be reset when a process forks. For example, the entropy pool used to generate random numbers (and therefore encryption keys) should not be shared across multiple

programs. The `OPENSSL_fork_prepare()`, `OPENSSL_fork_parent()`, and `OPENSSL_fork_child()` functions are used to reset this internal state.

Platforms without `fork(2)` will probably not need to use these functions. Platforms with `fork(2)` but without `pthread_atfork(3)` will probably need to call them manually, as described in the following paragraph. Platforms such as Linux that have both functions will normally not need to call these functions as the OpenSSL library will do so automatically.

`OPENSSL_init_crypto(3)` will register these functions with the appropriate handler, when the `OPENSSL_INIT_ATFORK` flag is used. For other applications, these functions can be called directly. They should be used according to the calling sequence described by the `pthread_atfork(3)` documentation, which is summarized here.

`OPENSSL_fork_prepare()` should be called before a `fork()` is done. After the `fork()` returns, the parent process should call `OPENSSL_fork_parent()` and the child process should call `OPENSSL_fork_child()`.

RETURN VALUES

`OPENSSL_fork_prepare()`, `OPENSSL_fork_parent()` and `OPENSSL_fork_child()` do not return values.

SEE ALSO

`OPENSSL_init_crypto(3)`

HISTORY

These functions were added in OpenSSL 1.1.1.

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