NAME

SSL_accept - wait for a TLS/SSL client to initiate a TLS/SSL handshake

SYNOPSIS

#include <openssl/ssl.h>

int SSL_accept(SSL *ssl);

DESCRIPTION

SSL_accept() waits for a TLS/SSL client to initiate the TLS/SSL handshake. The communication channel must already have been set and assigned to the **ssl** by setting an underlying **BIO**.

NOTES

The behaviour of **SSL_accept()** depends on the underlying BIO.

If the underlying BIO is **blocking**, **SSL_accept**() will only return once the handshake has been finished or an error occurred.

If the underlying BIO is **nonblocking**, **SSL_accept**() will also return when the underlying BIO could not satisfy the needs of **SSL_accept**() to continue the handshake, indicating the problem by the return value -1. In this case a call to **SSL_get_error**() with the return value of **SSL_accept**() will yield **SSL_ERROR_WANT_READ** or **SSL_ERROR_WANT_WRITE**. The calling process then must repeat the call after taking appropriate action to satisfy the needs of **SSL_accept**(). The action depends on the underlying BIO. When using a nonblocking socket, nothing is to be done, but **select**() can be used to check for the required condition. When using a buffering BIO, like a BIO pair, data must be written into or retrieved out of the BIO before being able to continue.

RETURN VALUES

The following return values can occur:

- 0 The TLS/SSL handshake was not successful but was shut down controlled and by the specifications of the TLS/SSL protocol. Call **SSL_get_error**() with the return value **ret** to find out the reason.
- 1 The TLS/SSL handshake was successfully completed, a TLS/SSL connection has been established.
- <0 The TLS/SSL handshake was not successful because a fatal error occurred either at the protocol level or a connection failure occurred. The shutdown was not clean. It can also occur if action is needed to continue the operation for nonblocking BIOs. Call SSL_get_error() with the return</p>

value **ret** to find out the reason.

SEE ALSO

SSL_get_error(3), SSL_connect(3), SSL_shutdown(3), ssl(7), bio(7), SSL_set_connect_state(3), SSL_do_handshake(3), SSL_CTX_new(3)

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