

**NAME**

`SSL_rstate_string`, `SSL_rstate_string_long` - get textual description of state of an SSL object during read operation

**SYNOPSIS**

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

const char *SSL_rstate_string(SSL *ssl);
const char *SSL_rstate_string_long(SSL *ssl);
```

**DESCRIPTION**

`SSL_rstate_string()` returns a 2 letter string indicating the current read state of the SSL object `ssl`.

`SSL_rstate_string_long()` returns a string indicating the current read state of the SSL object `ssl`.

**NOTES**

When performing a read operation, the SSL/TLS engine must parse the record, consisting of header and body. When working in a blocking environment, `SSL_rstate_string[_long]()` should always return “RD”/“read done”.

This function should only seldom be needed in applications.

**RETURN VALUES**

`SSL_rstate_string()` and `SSL_rstate_string_long()` can return the following values:

“RH”/“read header”

The header of the record is being evaluated.

“RB”/“read body”

The body of the record is being evaluated.

“RD”/“read done”

The record has been completely processed.

“unknown”/“unknown”

The read state is unknown. This should never happen.

**SEE ALSO**

`ssl(3)`

**COPYRIGHT**

Copyright 2001-2016 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the OpenSSL license (the “License”). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.