

# PERL GETSOCKOPT FUNCTION

[http://www.tutorialspoint.com/perl/perl\\_getsockopt.htm](http://www.tutorialspoint.com/perl/perl_getsockopt.htm)

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## Description

This function gets the socket options set on SOCKET at the socket implementation level LEVEL for the option OPTNAME. Some sample values for OPTNAME at a socket level are given in Table below –

OPTNAME	Result
SO_DEBUG	Get status of recording of debugging information
SO_REUSEADDR	Get status of local address reuse
SO_KEEPALIVE	Get status of keep connections alive
SO_DONTROUTE	Get status of routing bypass for outgoing messages
SO_LINGER	Get status of linger on close if data is present
SO_BROADCAST	Get status of permission to transmit broadcast messages
SO_OOBINLINE	Get status of out-of-band data in band
SO_SNDBUF	Get buffer size for output
SO_RCVBUF	Get buffer size for input
SO_TYPE	Get the type of the socket
SO_ERROR	Get and clear error on the socket
TCP_NODELAY	To disable the Nagle buffering algorithm.

What exactly is in the packed string depends in the LEVEL and OPTNAME, consult your system documentation for details.

## Syntax

Following is the simple syntax for this function –

```
getsockopt SOCKET, LEVEL, OPTNAME
```

## Return Value

This function returns undef on error otherwise option value in scalar context.

## Example

Following is the example code showing its basic usage, this will check if Nagle's algorithm is turned on on a socket. But, here you would have to open one socket to provide socket ID in this example –

```
#!/usr/bin/perl

use Socket qw(:all);

defined(my $tcp = getprotobyname("tcp"))
    or die "Could not determine the protocol number for tcp";
# my $tcp = IPPROTO_TCP; # Alternative

my $packed = getsockopt($socket, $tcp, TCP_NODELAY)
    or die "Could not query TCP_NODELAY socket option: $!";
my $nodelay = unpack("I", $packed);

print "Nagle's algorithm is turned ", $nodelay ? "off\n" : "on\n";
```

When above code is executed, it produces the following result –