

# PERL GETPROTOENT FUNCTION

[http://www.tutorialspoint.com/perl/perl\\_getprotoent.htm](http://www.tutorialspoint.com/perl/perl_getprotoent.htm)

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## Description

This function returns the next entry from the list of valid protocols: *\$name*, *\$aliases*, *\$protocol<sub>n</sub>umber*

## Syntax

Following is the simple syntax for this function –

```
getprotoent
```

## Return Value

This function returns undef on error otherwise protocol number in scalar context and empty list on error protocol record *name*, *aliases*, *protocolnumber* in list context.

## Example

Following is the example code showing its basic usage –

```
#!/usr/bin/perl

while(($name, $aliases, $protocol_number) = getprotoent()){
    print "Name = $name\n";
    print "Aliases = $aliases\n";
    print "Protocol Number = $protocol_number\n";
}
```

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

```
Name = ip
Aliases = IP
Protocol Number = 0
Name = hopopt
Aliases = HOPOPT
Protocol Number = 0
Name = icmp
Aliases = ICMP
Protocol Number = 1
Name = igmp
Aliases = IGMP
Protocol Number = 2
Name = ggp
Aliases = GGP
Protocol Number = 3
Name = ipencap
Aliases = IP-ENCAP
Protocol Number = 4
.
.
.
Name = udplite
Aliases = UDPLite
Protocol Number = 136
Name = mpls-in-ip
Aliases = MPLS-in-IP
Protocol Number = 137
Name = manet
Aliases = manet
Protocol Number = 138
Name = hip
```

Aliases = HIP  
Protocol Number = 139  
Name = shim6  
Aliases = Shim6  
Protocol Number = 140

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