System.Net.Sockets.SocketOptionName Enum

```
[ILAsm]
.class public sealed serializable SocketOptionName extends System.Enum

[C#]
public enum SocketOptionName
```

Assembly Info:

- *Name:* System
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - o CLSCompliantAttribute(true)

Summary

Specifies option names for use in the `System.Net.Sockets.Socket.SetSocketOption` and `System.Net.Sockets.Socket.GetSocketOption` methods of the `System.Net.Sockets.Socket` class.

Inherits From: System.Enum

Library: Networking

Description

Socket options determine the behavior of an instance of the `System.Net.Sockets.Socket` class. Some socket options apply only to specific protocols while others apply to all types. Members of the `System.Net.Sockets.SocketOptionLevel` enumeration specify which protocol applies to a specific socket option.

SocketOptionName.AcceptConnection Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
AcceptConnection = 2


[C#]
AcceptConnection = 2
```

Summary

System.Net.Sockets.Socket.Listen has been called on the socket.

The value associated with this option is a System.Boolean data type.

The System.Net.Sockets.SocketOptionLevel.Socket value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.AddMembership Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
AddMembership = 12


[C#]
AddMembership = 12
```

Summary

Add an IP group membership.

The value associated with this option is an instance of the
System.Net.Sockets.MulticastOption class.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.AddSourceMembership Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
AddSourceMembership = 15


[C#]
AddSourceMembership = 15
```

Summary

Join a source group.

The value associated with this option is an instance of the `System.Net.IPAddress` class.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.BlockSource Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
BlockSource = 17


[C#]
BlockSource = 17
```

Summary

Block data from a source.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.Broadcast Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Broadcast = 32


[C#]
Broadcast = 32
```

Summary

Permit sending broadcast messages on the socket.

The value associated with this option is a System.Boolean data type.

The System.Net.Sockets.SocketOptionLevel.Socket value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.BsdUrgent Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
BsdUrgent = 2


[C#]
BsdUrgent = 2
```

Summary

Use urgent data as defined by IETF RFC 1222. This option can be set only once, and once set, cannot be turned off.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Tcp` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.ChecksumCoverage Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ChecksumCoverage = 20


[C#]
ChecksumCoverage = 20
```

Summary

Set or get UDP checksum coverage.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Udp` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.Debug Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Debug = 1


[C#]
Debug = 1
```

Summary

Record debugging information when available.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.DontFragment Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
DontFragment = 14


[C#]
DontFragment = 14
```

Summary

Do not fragment IP datagrams.

The value associated with this option is a System.Boolean data type.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.DontLinger Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
DontLinger = -129


[C#]
DontLinger = -129
```

Summary

Close socket gracefully without lingering.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.DontRoute Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
DontRoute = 16


[C#]
DontRoute = 16
```

Summary

Do not route; send directly to interface addresses.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.DropMembership Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
DropMembership = 13


[C#]
DropMembership = 13
```

Summary

Drop an IP group membership.

The value associated with this option is an instance of the
System.Net.Sockets.MulticastOption class.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.DropSourceMembership Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
DropSourceMembership = 16


[C#]
DropSourceMembership = 16
```

Summary

Drop a source group.

The value associated with this option is an instance of the System.Net.IPAddress class.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.Error Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Error = 4103


[C#]
Error = 4103
```

Summary

Get the error status code, then clear the code.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.ExclusiveAddressUse Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ExclusiveAddressUse = -5


[C#]
ExclusiveAddressUse = -5
```

Summary

Enable a socket to be bound for exclusive access.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.Expedited Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Expedited = 2


[C#]
Expedited = 2
```

Summary

Use expedited data as defined by IETF RFC 1222. This option can be set only once, and once set, cannot be turned off.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Tcp` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.HeaderIncluded Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
HeaderIncluded = 2


[C#]
HeaderIncluded = 2
```

Summary

Application is providing the IP header for outgoing datagrams.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.IPOptions Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
IPOptions = 1


[C#]
IPOptions = 1
```

Summary

Specifies IP options to be inserted into outgoing datagrams.

The value associated with this option is a `System.Byte` array.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.IpTimeToLive Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
IpTimeToLive = 4


[C#]
IpTimeToLive = 4
```

Summary

Set the IP header time-to-live field.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.KeepAlive Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
KeepAlive = 8


[C#]
KeepAlive = 8
```

Summary

Send keep-alives.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.Linger Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Linger = 128


[C#]
Linger = 128
```

Summary

Linger on close if unsent data is present.

The value associated with this option is an instance of the
`System.Net.Sockets.LingerOption` class.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.MaxConnections Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
MaxConnections = 2147483647


[C#]
MaxConnections = 2147483647
```

Summary

Maximum queue length that can be specified by System.Net.Sockets.Socket.Listen.

The value associated with this option is a System.Int32 data type.

SocketOptionName.MulticastInterface Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
MulticastInterface = 9

[C#]
MulticastInterface = 9
```

Summary

Set the interface for outgoing multicast packets.

The value associated with this option is a `System.Byte` array.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.MulticastLoopback Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
MulticastLoopback = 11


[C#]
MulticastLoopback = 11
```

Summary

IP multicast loopback.

The value associated with this option is a System.Boolean data type.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.MulticastTimeToLive Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
MulticastTimeToLive = 10


[C#]
MulticastTimeToLive = 10
```

Summary

IP multicast time to live.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.NoChecksum Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
NoChecksum = 1


[C#]
NoChecksum = 1
```

Summary

Send UDP datagrams with checksum set to zero.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Udp` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.NoDelay Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
NoDelay = 1


[C#]
NoDelay = 1
```

Summary

Disable the Nagle algorithm for send coalescing.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Tcp` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.OutOfBandInline Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
OutOfBandInline = 256


[C#]
OutOfBandInline = 256
```

Summary

Receive out-of-band data in the normal data stream.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.PacketInformation Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
PacketInformation = 19


[C#]
PacketInformation = 19
```

Summary

Return information about received packets.

SocketOptionName.ReceiveBuffer Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ReceiveBuffer = 4098


[C#]
ReceiveBuffer = 4098
```

Summary

Specifies the total per-socket buffer space reserved for receives. This is unrelated to the maximum message size or the size of a TCP window.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.ReceiveLowWater Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ReceiveLowWater = 4100


[C#]
ReceiveLowWater = 4100
```

Summary

Receive low water mark.

The value associated with this option is a `System.Int32` data type.

SocketOptionName.ReceiveTimeout Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ReceiveTimeout = 4102


[C#]
ReceiveTimeout = 4102
```

Summary

Specifies the maximum time, in milliseconds, the
`System.Net.Sockets.Socket.Receive` and `System.Net.Sockets.Socket.ReceiveFrom`
methods will block when attempting to receive data. If data is not received within this
time, a `System.Net.Sockets.SocketException` exception is thrown.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.ReuseAddress Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
ReuseAddress = 4


[C#]
ReuseAddress = 4
```

Summary

Allow the socket to be bound to an address that is already in use.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the
`System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.SendBuffer Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
SendBuffer = 4097


[C#]
SendBuffer = 4097
```

Summary

Specifies the total per-socket buffer space reserved for sends. This is unrelated to the maximum message size or the size of a TCP window.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.SendLowWater Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
SendLowWater = 4099


[C#]
SendLowWater = 4099
```

Summary

Send low water mark.

The value associated with this option is a `System.Int32` data type.

SocketOptionName.SendTimeout Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
SendTimeout = 4101


[C#]
SendTimeout = 4101
```

Summary

Specifies the maximum time, in milliseconds, the `System.Net.Sockets.Socket.Send` and `System.Net.Sockets.Socket.SendTo` methods will block when attempting to send data. If data is not sent within this time, a `System.Net.Sockets.SocketException` exception is thrown.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` member of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.Type Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
Type = 4104

[C#]
Type = 4104
```

Summary

Get the socket type, one of the members of the `System.Net.Sockets.SocketType` enumeration.

The value associated with this option is a `System.Int32` data type.

The `System.Net.Sockets.SocketOptionLevel.Socket` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.

SocketOptionName.TypeOfService Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
TypeOfService = 3


[C#]
TypeOfService = 3
```

Summary

Change the IP header type of service field.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.UnblockSource Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
UnblockSource = 18


[C#]
UnblockSource = 18
```

Summary

Unblock a previously blocked source.

The value associated with this option is a System.Boolean data type.

The System.Net.Sockets.SocketOptionLevel.IP value of the
System.Net.Sockets.SocketOptionLevel enumeration applies to this option.

SocketOptionName.UseLoopback Field

```
[ILAsm]
.field public static literal valuetype System.Net.Sockets.SocketOptionName
UseLoopback = 64


[C#]
UseLoopback = 64
```

Summary

Bypass hardware when possible.

The value associated with this option is a `System.Boolean` data type.

The `System.Net.Sockets.SocketOptionLevel.IP` value of the `System.Net.Sockets.SocketOptionLevel` enumeration applies to this option.