

# System.Net.IPEndPoint Class

```
[ILAsm]
.class public IPEndPoint extends System.Object

[C#]
public class IPEndPoint
```

## 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:*
  - CLSCompliantAttribute(true)

## Summary

Provides a container class for Internet host address information.

## Inherits From: System.Object

**Library:** Networking

**Thread Safety:** All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

## Description

The `System.Net.IPEndPoint` class associates a Domain Name System (DNS) host name with an array of aliases and an array of matching IP addresses.

## Example

The following example queries the DNS database for information on the host "www.contoso.com" and displays the information in the returned `System.Net.IPEndPoint` instance.

[C#]

```
using System;
using System.Net;

public class IPEndPointTest {
    public static void Main() {
```

```
1  IPHostEntry hostInfo = Dns.GetHostByName("www.contoso.com");
2
3  string[] aliases = hostInfo.Aliases;
4  IPAddress[] addresses = hostInfo.AddressList;
5
6  Console.WriteLine("The host name is: {0}", hostInfo.HostName);
7
8  for(int x = 0; x < aliases.Length; x++)
9  Console.WriteLine("Alias {0} == {1}", aliases[x], addresses[x]);
10 }
11 }
```

12  
13 The output is

```
14
15 The host name is: contoso.com
16
17
18 Alias www.contoso.com == 207.46.230.186
19
```

20

# 1 IPHostEntry() Constructor

```
2 [ILAsm]  
3 public rtspecialname specialname instance void .ctor()  
  
4 [C#]  
5 public IPHostEntry()
```

## 6 Summary

7 Constructs a new instance of the System.Net.IPHostEntry class.

8

# IPHostEntry.AddressList Property

```
[ILAsm]
.property class System.Net.IPAddress[] AddressList { public hidebysig
specialname instance class System.Net.IPAddress[] get_AddressList() public
hidebysig specialname instance void set_AddressList(class
System.Net.IPAddress[] value) }

[C#]
public IPAddress[] AddressList { get; set; }
```

## Summary

Gets or sets a list of IP addresses associated with a host.

## Property Value

A `System.Net.IPAddress` array containing IP addresses that resolve to the host names contained in the `System.Net.IPHostEntry.Aliases` property.

# IPHostEntry.Aliases Property

```
[ILAsm]  
.property string[] Aliases { public hidebysig specialname instance  
string[] get_Aliases() public hidebysig specialname instance void  
set_Aliases(string[] value) }
```

```
[C#]  
public string[] Aliases { get; set; }
```

## Summary

Gets or sets a list of aliases associated with a host.

## Property Value

A System.String array containing DNS names that resolve to the IP addresses in the System.Net.IPHostEntry.AddressList property.

# IPHostEntry.HostName Property

```
[ILAsm]
.property string HostName { public hidebysig specialname instance string
get_HostName() public hidebysig specialname instance void
set_HostName(string value) }

[C#]
public string HostName { get; set; }
```

## Summary

Gets or sets the DNS name of the host.

## Property Value

A `System.String` containing the DNS host name that corresponds to the address and alias information contained in the current instance.

## Description

[*Note:* The `System.Net.IPHostEntry.HostName` property contains the primary host name for a server. If the DNS entry for the host defines additional aliases, they are available via the `System.Net.IPHostEntry.Aliases` property.]