# System.Net.IPHostEntry Class

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

[C#]
public class IPHostEntry
```

**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.IPHostEntry` 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.IPHostEntry` instance.

[C#]

```
using System;
using System.Net;

public class IPHostEntryTest {
 public static void Main() {

  IPHostEntry hostInfo = Dns.GetHostByName("www.contoso.com");

  string[] aliases = hostInfo.Aliases;
```

```
  IPAddress[] addresses = hostInfo.AddressList;

 Console.WriteLine("The host name is: {0}", hostInfo.HostName);

 for(int x = 0; x < aliases.Length; x++)
 Console.WriteLine("Alias {0} == {1}", aliases[x], addresses[x]);
 }
}
```

The output is

```
The host name is: contoso.com


Alias www.contoso.com == 207.46.230.186
```

# IPHostEntry() Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor()

[C#]
public IPHostEntry()
```

## Summary

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

# 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.]