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:*
    - o 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
```

1 IPHostEntry() Constructor

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

[C#]
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.]