Beta 4

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FRAMES NO FRAMES

SUMMARY: INNER | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Class java.net.InetAddress

public final class **InetAddress** extends <u>Object</u> implements <u>Serializable</u>

This class represents an Internet Protocol (IP) address.

Applications should use the methods getLocalHost, getByName, or getAllByName to create a new InetAddress instance.

Since:

JDK1.0

See Also:

getAllByName(java.lang.String), getByName(java.lang.String), getLocalHost(), Serialized Form

Method Summary					
boolean	equals(Object obj) Compares this object against the specified object.				
byte[]	getAddress() Returns the raw IP address of this InetAddress object.				
static <u>InetAddress[]</u>	getAllByName(String host) Determines all the IP addresses of a host, given the host's name.				
static <u>InetAddress</u>	getByName(String host) Determines the IP address of a host, given the host's name.				
String	getHostAddress() Returns the IP address string "%d.				
String	getHostName() Returns the hostname for this address.				
static <u>InetAddress</u>	getLocalHost() Returns the local host.				
int	hashCode() Returns a hashcode for this IP address.				
boolean	isMulticastAddress() Utility routine to check if the InetAddress is a IP multicast address.				
String	toString() Converts this IP address to a String.				

Methods	inherited	from	class	java.lang	.Object
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clone, finalize, getClass, notify, notifyAll, wait, wait, wait

Method Detail

isMulticastAddress

```
public boolean isMulticastAddress()
```

Utility routine to check if the InetAddress is a IP multicast address. IP multicast address is a Class D address i.e first four bits of the address are 1110.

Since:

JDK1.1

getHostName

```
public <u>String getHostName()</u>
```

Returns the hostname for this address. If the host is equal to null, then this address refers to any of the local machine's available network addresses.

Returns:

the host name for this IP address.

getAddress

```
public byte[] getAddress()
```

Returns the raw IP address of this InetAddress object. The result is in network byte order: the highest order byte of the address is in getAddress()[0].

Returns:

the raw IP address of this object.

getHostAddress

```
public String getHostAddress()
```

Returns the IP address string "%d.%d.%d.%d".

Returns:

the raw IP address in a string format.

Since:

JDK1.0.2

hashCode

```
public int hashCode()
```

Returns a hashcode for this IP address.

Returns:

a hash code value for this IP address.

Overrides:

hashCode in class Object

equals

```
public boolean equals(Object obj)
```

Compares this object against the specified object. The result is true if and only if the argument is not null and it represents the same IP address as this object.

Two instances of InetAddress represent the same IP address if the length of the byte arrays returned by getAddress is the same for both, and each of the array components is the same for the byte arrays.

Parameters:

obj - the object to compare against.

Returns:

true if the objects are the same; false otherwise.

Overrides:

equals in class Object

See Also:

getAddress()

toString

```
public <u>String</u> toString()
```

Converts this IP address to a String.

Returns:

a string representation of this IP address.

Overrides:

toString in class Object

getByName

Determines the IP address of a host, given the host's name. The host name can either be a machine name, such as "java.sun.com", or a string representing its IP address, such as "206.26.48.100".

Parameters:

host - the specified host, or null for the local host.

Returns:

an IP address for the given host name.

Throws:

<u>UnknownHostException</u> - if no IP address for the host could be found.

getAllByName

Determines all the IP addresses of a host, given the host's name. The host name can either be a machine name, such as "java.sun.com", or a string representing its IP address, such as "206.26.48.100".

Parameters:

host - the name of the host.

Returns:

an array of all the IP addresses for a given host name.

Throws:

<u>UnknownHostException</u> - if no IP address for the host could be found.

getLocalHost

public static <u>InetAddress</u> getLocalHost()

throws <u>UnknownHostException</u>

Returns the local host.

Returns:

the IP address of the local host.

Throws:

<u>UnknownHostException</u> - if no IP address for the host could be found.

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