| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/net/SocketException.html) | **Use** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/net//class-useSocketException.html)    [**NO FRAMES**](http://docs.google.com/SocketException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.net.SocketException**

| Packages that use [SocketException](http://docs.google.com/java/net/SocketException.html) | |
| --- | --- |
| [**java.net**](#3znysh7) | Provides the classes for implementing networking applications. |

| Uses of [SocketException](http://docs.google.com/java/net/SocketException.html) in [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |

| Subclasses of [SocketException](http://docs.google.com/java/net/SocketException.html) in [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |
| class | [**BindException**](http://docs.google.com/java/net/BindException.html)            Signals that an error occurred while attempting to bind a socket to a local address and port. |
| class | [**ConnectException**](http://docs.google.com/java/net/ConnectException.html)            Signals that an error occurred while attempting to connect a socket to a remote address and port. |
| class | [**NoRouteToHostException**](http://docs.google.com/java/net/NoRouteToHostException.html)            Signals that an error occurred while attempting to connect a socket to a remote address and port. |
| class | [**PortUnreachableException**](http://docs.google.com/java/net/PortUnreachableException.html)            Signals that an ICMP Port Unreachable message has been received on a connected datagram. |

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) that throw [SocketException](http://docs.google.com/java/net/SocketException.html) | |
| --- | --- |
| protected abstract  void | **DatagramSocketImpl.**[**bind**](http://docs.google.com/java/net/DatagramSocketImpl.html#bind(int,%20java.net.InetAddress))(int lport, [InetAddress](http://docs.google.com/java/net/InetAddress.html) laddr)            Binds a datagram socket to a local port and address. |
| void | **DatagramSocket.**[**bind**](http://docs.google.com/java/net/DatagramSocket.html#bind(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) addr)            Binds this DatagramSocket to a specific address & port. |
| protected  void | **DatagramSocketImpl.**[**connect**](http://docs.google.com/java/net/DatagramSocketImpl.html#connect(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port)            Connects a datagram socket to a remote destination. |
| void | **DatagramSocket.**[**connect**](http://docs.google.com/java/net/DatagramSocket.html#connect(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) addr)            Connects this socket to a remote socket address (IP address + port number). |
| protected abstract  void | **DatagramSocketImpl.**[**create**](http://docs.google.com/java/net/DatagramSocketImpl.html#create())()            Creates a datagram socket. |
| boolean | **DatagramSocket.**[**getBroadcast**](http://docs.google.com/java/net/DatagramSocket.html#getBroadcast())()            Tests if SO\_BROADCAST is enabled. |
| static [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) | **NetworkInterface.**[**getByInetAddress**](http://docs.google.com/java/net/NetworkInterface.html#getByInetAddress(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) addr)            Convenience method to search for a network interface that has the specified Internet Protocol (IP) address bound to it. |
| static [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) | **NetworkInterface.**[**getByName**](http://docs.google.com/java/net/NetworkInterface.html#getByName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Searches for the network interface with the specified name. |
| byte[] | **NetworkInterface.**[**getHardwareAddress**](http://docs.google.com/java/net/NetworkInterface.html#getHardwareAddress())()            Returns the hardware address (usually MAC) of the interface if it has one and if it can be accessed given the current privileges. |
| [InetAddress](http://docs.google.com/java/net/InetAddress.html) | **MulticastSocket.**[**getInterface**](http://docs.google.com/java/net/MulticastSocket.html#getInterface())()            Retrieve the address of the network interface used for multicast packets. |
| boolean | **Socket.**[**getKeepAlive**](http://docs.google.com/java/net/Socket.html#getKeepAlive())()            Tests if SO\_KEEPALIVE is enabled. |
| boolean | **MulticastSocket.**[**getLoopbackMode**](http://docs.google.com/java/net/MulticastSocket.html#getLoopbackMode())()            Get the setting for local loopback of multicast datagrams. |
| int | **NetworkInterface.**[**getMTU**](http://docs.google.com/java/net/NetworkInterface.html#getMTU())()            Returns the Maximum Transmission Unit (MTU) of this interface. |
| [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) | **MulticastSocket.**[**getNetworkInterface**](http://docs.google.com/java/net/MulticastSocket.html#getNetworkInterface())()            Get the multicast network interface set. |
| static [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html)> | **NetworkInterface.**[**getNetworkInterfaces**](http://docs.google.com/java/net/NetworkInterface.html#getNetworkInterfaces())()            Returns all the interfaces on this machine. |
| boolean | **Socket.**[**getOOBInline**](http://docs.google.com/java/net/Socket.html#getOOBInline())()            Tests if OOBINLINE is enabled. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SocketOptions.**[**getOption**](http://docs.google.com/java/net/SocketOptions.html#getOption(int))(int optID)            Fetch the value of an option. |
| int | **Socket.**[**getReceiveBufferSize**](http://docs.google.com/java/net/Socket.html#getReceiveBufferSize())()            Gets the value of the SO\_RCVBUF option for this Socket, that is the buffer size used by the platform for input on this Socket. |
| int | **ServerSocket.**[**getReceiveBufferSize**](http://docs.google.com/java/net/ServerSocket.html#getReceiveBufferSize())()            Gets the value of the SO\_RCVBUF option for this ServerSocket, that is the proposed buffer size that will be used for Sockets accepted from this ServerSocket. |
| int | **DatagramSocket.**[**getReceiveBufferSize**](http://docs.google.com/java/net/DatagramSocket.html#getReceiveBufferSize())()            Get value of the SO\_RCVBUF option for this DatagramSocket, that is the buffer size used by the platform for input on this DatagramSocket. |
| boolean | **Socket.**[**getReuseAddress**](http://docs.google.com/java/net/Socket.html#getReuseAddress())()            Tests if SO\_REUSEADDR is enabled. |
| boolean | **ServerSocket.**[**getReuseAddress**](http://docs.google.com/java/net/ServerSocket.html#getReuseAddress())()            Tests if SO\_REUSEADDR is enabled. |
| boolean | **DatagramSocket.**[**getReuseAddress**](http://docs.google.com/java/net/DatagramSocket.html#getReuseAddress())()            Tests if SO\_REUSEADDR is enabled. |
| int | **Socket.**[**getSendBufferSize**](http://docs.google.com/java/net/Socket.html#getSendBufferSize())()            Get value of the SO\_SNDBUF option for this Socket, that is the buffer size used by the platform for output on this Socket. |
| int | **DatagramSocket.**[**getSendBufferSize**](http://docs.google.com/java/net/DatagramSocket.html#getSendBufferSize())()            Get value of the SO\_SNDBUF option for this DatagramSocket, that is the buffer size used by the platform for output on this DatagramSocket. |
| int | **Socket.**[**getSoLinger**](http://docs.google.com/java/net/Socket.html#getSoLinger())()            Returns setting for SO\_LINGER. |
| int | **Socket.**[**getSoTimeout**](http://docs.google.com/java/net/Socket.html#getSoTimeout())()            Returns setting for SO\_TIMEOUT. |
| int | **DatagramSocket.**[**getSoTimeout**](http://docs.google.com/java/net/DatagramSocket.html#getSoTimeout())()            Retrieve setting for SO\_TIMEOUT. |
| boolean | **Socket.**[**getTcpNoDelay**](http://docs.google.com/java/net/Socket.html#getTcpNoDelay())()            Tests if TCP\_NODELAY is enabled. |
| int | **Socket.**[**getTrafficClass**](http://docs.google.com/java/net/Socket.html#getTrafficClass())()            Gets traffic class or type-of-service in the IP header for packets sent from this Socket |
| int | **DatagramSocket.**[**getTrafficClass**](http://docs.google.com/java/net/DatagramSocket.html#getTrafficClass())()            Gets traffic class or type-of-service in the IP datagram header for packets sent from this DatagramSocket. |
| boolean | **NetworkInterface.**[**isLoopback**](http://docs.google.com/java/net/NetworkInterface.html#isLoopback())()            Returns whether a network interface is a loopback interface. |
| boolean | **NetworkInterface.**[**isPointToPoint**](http://docs.google.com/java/net/NetworkInterface.html#isPointToPoint())()            Returns whether a network interface is a point to point interface. |
| boolean | **NetworkInterface.**[**isUp**](http://docs.google.com/java/net/NetworkInterface.html#isUp())()            Returns whether a network interface is up and running. |
| void | **DatagramSocket.**[**setBroadcast**](http://docs.google.com/java/net/DatagramSocket.html#setBroadcast(boolean))(boolean on)            Enable/disable SO\_BROADCAST. |
| void | **MulticastSocket.**[**setInterface**](http://docs.google.com/java/net/MulticastSocket.html#setInterface(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) inf)            Set the multicast network interface used by methods whose behavior would be affected by the value of the network interface. |
| void | **Socket.**[**setKeepAlive**](http://docs.google.com/java/net/Socket.html#setKeepAlive(boolean))(boolean on)            Enable/disable SO\_KEEPALIVE. |
| void | **MulticastSocket.**[**setLoopbackMode**](http://docs.google.com/java/net/MulticastSocket.html#setLoopbackMode(boolean))(boolean disable)            Disable/Enable local loopback of multicast datagrams The option is used by the platform's networking code as a hint for setting whether multicast data will be looped back to the local socket. |
| void | **MulticastSocket.**[**setNetworkInterface**](http://docs.google.com/java/net/MulticastSocket.html#setNetworkInterface(java.net.NetworkInterface))([NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netIf)            Specify the network interface for outgoing multicast datagrams sent on this socket. |
| void | **Socket.**[**setOOBInline**](http://docs.google.com/java/net/Socket.html#setOOBInline(boolean))(boolean on)            Enable/disable OOBINLINE (receipt of TCP urgent data) By default, this option is disabled and TCP urgent data received on a socket is silently discarded. |
| void | **SocketOptions.**[**setOption**](http://docs.google.com/java/net/SocketOptions.html#setOption(int,%20java.lang.Object))(int optID, [Object](http://docs.google.com/java/lang/Object.html) value)            Enable/disable the option specified by *optID*. |
| void | **Socket.**[**setReceiveBufferSize**](http://docs.google.com/java/net/Socket.html#setReceiveBufferSize(int))(int size)            Sets the SO\_RCVBUF option to the specified value for this Socket. |
| void | **ServerSocket.**[**setReceiveBufferSize**](http://docs.google.com/java/net/ServerSocket.html#setReceiveBufferSize(int))(int size)            Sets a default proposed value for the SO\_RCVBUF option for sockets accepted from this ServerSocket. |
| void | **DatagramSocket.**[**setReceiveBufferSize**](http://docs.google.com/java/net/DatagramSocket.html#setReceiveBufferSize(int))(int size)            Sets the SO\_RCVBUF option to the specified value for this DatagramSocket. |
| void | **Socket.**[**setReuseAddress**](http://docs.google.com/java/net/Socket.html#setReuseAddress(boolean))(boolean on)            Enable/disable the SO\_REUSEADDR socket option. |
| void | **ServerSocket.**[**setReuseAddress**](http://docs.google.com/java/net/ServerSocket.html#setReuseAddress(boolean))(boolean on)            Enable/disable the SO\_REUSEADDR socket option. |
| void | **DatagramSocket.**[**setReuseAddress**](http://docs.google.com/java/net/DatagramSocket.html#setReuseAddress(boolean))(boolean on)            Enable/disable the SO\_REUSEADDR socket option. |
| void | **Socket.**[**setSendBufferSize**](http://docs.google.com/java/net/Socket.html#setSendBufferSize(int))(int size)            Sets the SO\_SNDBUF option to the specified value for this Socket. |
| void | **DatagramSocket.**[**setSendBufferSize**](http://docs.google.com/java/net/DatagramSocket.html#setSendBufferSize(int))(int size)            Sets the SO\_SNDBUF option to the specified value for this DatagramSocket. |
| void | **Socket.**[**setSoLinger**](http://docs.google.com/java/net/Socket.html#setSoLinger(boolean,%20int))(boolean on, int linger)            Enable/disable SO\_LINGER with the specified linger time in seconds. |
| void | **Socket.**[**setSoTimeout**](http://docs.google.com/java/net/Socket.html#setSoTimeout(int))(int timeout)            Enable/disable SO\_TIMEOUT with the specified timeout, in milliseconds. |
| void | **ServerSocket.**[**setSoTimeout**](http://docs.google.com/java/net/ServerSocket.html#setSoTimeout(int))(int timeout)            Enable/disable SO\_TIMEOUT with the specified timeout, in milliseconds. |
| void | **DatagramSocket.**[**setSoTimeout**](http://docs.google.com/java/net/DatagramSocket.html#setSoTimeout(int))(int timeout)            Enable/disable SO\_TIMEOUT with the specified timeout, in milliseconds. |
| void | **Socket.**[**setTcpNoDelay**](http://docs.google.com/java/net/Socket.html#setTcpNoDelay(boolean))(boolean on)            Enable/disable TCP\_NODELAY (disable/enable Nagle's algorithm). |
| void | **Socket.**[**setTrafficClass**](http://docs.google.com/java/net/Socket.html#setTrafficClass(int))(int tc)            Sets traffic class or type-of-service octet in the IP header for packets sent from this Socket. |
| void | **DatagramSocket.**[**setTrafficClass**](http://docs.google.com/java/net/DatagramSocket.html#setTrafficClass(int))(int tc)            Sets traffic class or type-of-service octet in the IP datagram header for datagrams sent from this DatagramSocket. |
| boolean | **NetworkInterface.**[**supportsMulticast**](http://docs.google.com/java/net/NetworkInterface.html#supportsMulticast())()            Returns whether a network interface supports multicasting or not. |

| Constructors in [java.net](http://docs.google.com/java/net/package-summary.html) that throw [SocketException](http://docs.google.com/java/net/SocketException.html) | |
| --- | --- |
| [**DatagramPacket**](http://docs.google.com/java/net/DatagramPacket.html#DatagramPacket(byte%5B%5D,%20int,%20int,%20java.net.SocketAddress))(byte[] buf, int offset, int length, [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) address)            Constructs a datagram packet for sending packets of length length with offset ioffsetto the specified port number on the specified host. |
| [**DatagramPacket**](http://docs.google.com/java/net/DatagramPacket.html#DatagramPacket(byte%5B%5D,%20int,%20java.net.SocketAddress))(byte[] buf, int length, [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) address)            Constructs a datagram packet for sending packets of length length to the specified port number on the specified host. |
| [**DatagramSocket**](http://docs.google.com/java/net/DatagramSocket.html#DatagramSocket())()            Constructs a datagram socket and binds it to any available port on the local host machine. |
| [**DatagramSocket**](http://docs.google.com/java/net/DatagramSocket.html#DatagramSocket(int))(int port)            Constructs a datagram socket and binds it to the specified port on the local host machine. |
| [**DatagramSocket**](http://docs.google.com/java/net/DatagramSocket.html#DatagramSocket(int,%20java.net.InetAddress))(int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) laddr)            Creates a datagram socket, bound to the specified local address. |
| [**DatagramSocket**](http://docs.google.com/java/net/DatagramSocket.html#DatagramSocket(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) bindaddr)            Creates a datagram socket, bound to the specified local socket address. |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.net.SocketImpl))([SocketImpl](http://docs.google.com/java/net/SocketImpl.html) impl)            Creates an unconnected Socket with a user-specified SocketImpl. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/net/SocketException.html) | **Use** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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