

JAVA.LANG.SYSTEM.GETPROPERTIES METHOD

http://www.tutorialspoint.com/java/lang/system_getproperties.htm

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Description

The **java.lang.System.getProperties** method determines the current system properties. The current set of system properties for use by the `getPropertyString` method is returned as a `Properties` object.

If there is no current set of system properties, a set of system properties is first created and initialized. This set of system properties includes values for the following keys:

Key	Description of Associated Value
java.version	Java Runtime Environment version
java.vendor	Java Runtime Environment vendor
java.vendor.url	Java vendor URL
java.home	Java installation directory
java.vm.specification.version	Java Virtual Machine specification version
java.vm.specification.vendor	Java Virtual Machine specification vendor
java.vm.specification.name	Java Virtual Machine specification name
java.vm.version	Java Virtual Machine implementation version
java.vm.vendor	Java Virtual Machine implementation vendor
java.vm.name	Java Virtual Machine implementation name
java.specification.version	Java Runtime Environment specification version
java.specification.vendor	Java Runtime Environment specification vendor
java.specification.name	Java Runtime Environment specification name
java.class.version	Java class format version number
java.class.path	Java class path
java.library.path	List of paths to search when loading libraries
java.io.tmpdir	Default temp file path
java.compiler	Name of JIT compiler to use
java.ext.dirs	Path of extension directory or directories
os.name	Operating system name
os.arch	Operating system architecture
os.version	Operating system version
file.separator	File separator <code>" / "</code> on <i>UNIX</i>
path.separator	Path separator <code>":"</code> on <i>UNIX</i>
line.separator	Line separator <code>" \n "</code> on <i>UNIX</i>
user.name	User's account name

user.home	User's home directory
user.dir	User's current working directory

Declaration

Following is the declaration for **java.lang.System.getProperties** method

```
public static Properties getProperties()
```

Parameters

- NA

Return Value

This method returns the system properties.

Exception

- **SecurityException** -- if a security manager exists and its checkPermission method doesn't allow access to the process environment.

Example

The following example shows the usage of java.lang.System.getProperties method.

```
package com.tutorialspoint;

import java.lang.*;

public class SystemDemo {

    public static void main(String[] args) {

        // this will list the current system properties
        Properties p = System.getProperties();
        p.list(System.out);
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
-- listing properties --
java.runtime.name=Java(TM) SE Runtime Environment
sun.boot.library.path=C:\Program Files\Java\jdk1.6.0_06\jre...
java.vm.version=10.0-b22
java.vm.vendor=Sun Microsystems Inc.
java.vendor.url=http://java.sun.com/
path.separator=;
java.vm.name=Java HotSpot(TM) Client VM
file.encoding.pkg=sun.io
user.country=US
sun.java.launcher=SUN_STANDARD
sun.os.patch.level=Service Pack 2
java.vm.specification.name=Java Virtual Machine Specification
user.dir=C:\Program Files\Java\jdk1.6.0_06\bin
java.runtime.version=1.6.0_06-b02
java.awt.graphicsenv=sun.awt.Win32GraphicsEnvironment
java.endorsed.dirs=C:\Program Files\Java\jdk1.6.0_06\jre...
os.arch=x86
java.io.tmpdir=C:\DOCUME~1\AMIT~1\LOCALS~1\Temp\
line.separator=
```

```
java.vm.specification.vendor=Sun Microsystems Inc.
user.variant=
os.name=Windows XP
sun.jnu.encoding=Cp1252
java.library.path=C:\Program Files\Java\jdk1.6.0_06\bin...
java.specification.name=Java Platform API Specification
java.class.version=50.0
sun.management.compiler=HotSpot Client Compiler
os.version=5.1
user.home=C:\Documents and Settings\amit.AMIT-4...
user.timezone=
java.awt.printerjob=sun.awt.windows.WPrinterJob
file.encoding=Cp1252
java.specification.version=1.6
user.name=amit
java.class.path=.
java.vm.specification.version=1.0
sun.arch.data.model=32
java.home=C:\Program Files\Java\jdk1.6.0_06\jre
java.specification.vendor=Sun Microsystems Inc.
user.language=en
awt.toolkit=sun.awt.windows.WToolkit
java.vm.info=mixed mode, sharing
java.version=1.6.0_06
java.ext.dirs=C:\Program Files\Java\jdk1.6.0_06\jre...
sun.boot.class.path=C:\Program Files\Java\jdk1.6.0_06\jre...
java.vendor=Sun Microsystems Inc.
file.separator=\
java.vendor.url.bug=http://java.sun.com/cgi-bin/bugreport...
sun.cpu.endian=little
sun.io.unicode.encoding=UnicodeLittle
sun.desktop=windows
sun.cpu.isalist=
```

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