

JAVA.LANG.SYSTEM CLASS

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

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Introduction

The **java.lang.System** class contains several useful class fields and methods. It cannot be instantiated. Facilities provided by System:

- standard output
- error output streams
- standard input and access to externally defined properties and environment variables.
- A utility method for quickly copying a portion of an array.
- a means of loading files and libraries

Class declaration

Following is the declaration for **java.lang.System** class:

```
public final class System
    extends Object
```

Field

Following are the fields for **java.lang.System** class:

- **static PrintStream err** -- This is the "standard" error output stream.
- **static InputStream in** -- This is the "standard" input stream.
- **static PrintStream out** -- This is the "standard" output stream.

Class methods

S.N.	Method & Description
1	<u>static void arraycopyObjectsrc, intsrcPos, Objectdest, intdestPos, intlength</u> This method copies an array from the specified source array, beginning at the specified position, to the specified position of the destination array.
2	<u>static String clearPropertyStringkey</u> This method removes the system property indicated by the specified key.
3	<u>static Console console</u> This method returns the unique Console object associated with the current Java virtual machine, if any.
4	<u>static long currentTimeMillis</u> This method returns the current time in milliseconds.

5

[static void exit\(int status\)](#)

This method terminates the currently running Java Virtual Machine.

6

[static void gc](#)

This method runs the garbage collector.

7

[static Map<String,String> getenv](#)

This method returns an unmodifiable string map view of the current system environment.

8

[static String getenv\(String name\)](#)

This method gets the value of the specified environment variable.

9

[static Properties getProperties](#)

This method determines the current system properties.

10

[static String getProperty\(String key\)](#)

This method gets the system property indicated by the specified key.

11

[static String getProperty\(String key, String def\)](#)

This method gets the system property indicated by the specified key.

12

[static SecurityManager getSecurityManager](#)

This method gets the system security interface.

13

[static int identityHashCode\(Object x\)](#)

This method returns the same hash code for the given object as would be returned by the default method hashCode, whether or not the given object's class overrides hashCode.

14

[static Channel inheritedChannel](#)

This method returns the channel inherited from the entity that created this Java virtual machine.

15

[static void load\(String filename\)](#)

This method loads a code file with the specified filename from the local file system as a dynamic library.

16

[static void loadLibrary\(String libname\)](#)

This method loads the system library specified by the `libname` argument.

17

[`static String mapLibraryName\(String libname\)`](#)

This method maps a library name into a platform-specific string representing a native library.

18

[`static long nanoTime`](#)

This method returns the current value of the most precise available system timer, in nanoseconds.

19

[`static void runFinalization`](#)

This method runs the finalization methods of any objects pending finalization.

20

[`static void setErrPrintStreamerr`](#)

This method reassigns the "standard" error output stream.

21

[`static void setInInputStreamin`](#)

This method reassigns the "standard" input stream.

22

[`static void setOutPrintStreamout`](#)

This method reassigns the "standard" output stream.

23

[`static void setProperties\(Properties props\)`](#)

This method sets the system properties to the `Properties` argument.

24

[`static String setProperty\(String key, String value\)`](#)

This method sets the system property indicated by the specified key.

25

[`static void setSecurityManager\(SecurityManager\)`](#)

This method sets the System security.

Methods inherited

This class inherits methods from the following classes:

• `java.lang.Object`