

JAVA.LANG.DOUBLE.LONGBITSTODOUBLE METHOD

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

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Description

The **java.lang.Double.longBitsToDouble** method returns the double value corresponding to a given bit representation. The argument is considered to be a representation of a floating-point value according to the IEEE 754 floating-point "double format" bit layout. It includes the following important points:

- If the argument is 0x7ff0000000000000L, the result is positive infinity.
- If the argument is 0xfff0000000000000L, the result is negative infinity.

Declaration

Following is the declaration for **java.lang.Double.longBitsToDouble** method

```
public static double longBitsToDouble(long bits)
```

Parameters

- **bits** -- This is any long integer.

Return Value

This method returns the double floating-point value with the same bit pattern.

Exception

- NA

Example

The following example shows the usage of java.lang.Double.longBitsToDouble method.

```
package com.tutorialspoint;

import java.lang.*;

public class DoubleDemo {

    public static void main(String[] args) {

        Double d = new Double("15.30");

        /* returns the double value corresponding to a given bit
        representation */
        System.out.println(d.longBitsToDouble(6757689));
        System.out.println(d.longBitsToDouble(0x7ff0000000000000L));
        System.out.println(d.longBitsToDouble(0xfff0000000000000L));
    }
}
```

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

```
3.338742E-317
Infinity
-Infinity
```

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