| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/math/BigDecimal.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/math//class-useBigDecimal.html)    [**NO FRAMES**](http://docs.google.com/BigDecimal.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.math.BigDecimal**

| Packages that use [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
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| [**java.math**](#3znysh7) | Provides classes for performing arbitrary-precision integer arithmetic (BigInteger) and arbitrary-precision decimal arithmetic (BigDecimal). |
| [**java.sql**](#2et92p0) | Provides the API for accessing and processing data stored in a data source (usually a relational database) using the JavaTM programming language. |
| [**java.util**](#tyjcwt) | Contains the collections framework, legacy collection classes, event model, date and time facilities, internationalization, and miscellaneous utility classes (a string tokenizer, a random-number generator, and a bit array). |
| [**javax.management.openmbean**](#3dy6vkm) | Provides the open data types and Open MBean descriptor classes. |
| [**javax.sql**](#1t3h5sf) | Provides the API for server side data source access and processing from the JavaTM programming language. |
| [**javax.sql.rowset**](#4d34og8) | Standard interfaces and base classes for JDBC RowSet implementations. |
| [**javax.sql.rowset.serial**](#2s8eyo1) | Provides utility classes to allow serializable mappings between SQL types and data types in the Java programming language. |
| [**javax.xml.bind**](#17dp8vu) | Provides a runtime binding framework for client applications including unmarshalling, marshalling, and validation capabilities. |
| [**javax.xml.datatype**](#3rdcrjn) | XML/Java Type Mappings. |
| [**org.omg.CORBA**](#26in1rg) | Provides the mapping of the OMG CORBA APIs to the JavaTM programming language, including the class ORB, which is implemented so that a programmer can use it as a fully-functional Object Request Broker (ORB). |
| [**org.omg.CORBA.portable**](#lnxbz9) | Provides a portability layer, that is, a set of ORB APIs that makes it possible for code generated by one vendor to run on another vendor's ORB. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [java.math](http://docs.google.com/java/math/package-summary.html) | |
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| Fields in [java.math](http://docs.google.com/java/math/package-summary.html) declared as [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
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| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**ONE**](http://docs.google.com/java/math/BigDecimal.html#ONE)            The value 1, with a scale of 0. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**TEN**](http://docs.google.com/java/math/BigDecimal.html#TEN)            The value 10, with a scale of 0. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**ZERO**](http://docs.google.com/java/math/BigDecimal.html#ZERO)            The value 0, with a scale of 0. |

| Methods in [java.math](http://docs.google.com/java/math/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
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| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**abs**](http://docs.google.com/java/math/BigDecimal.html#abs())()            Returns a BigDecimal whose value is the absolute value of this BigDecimal, and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**abs**](http://docs.google.com/java/math/BigDecimal.html#abs(java.math.MathContext))([MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is the absolute value of this BigDecimal, with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**add**](http://docs.google.com/java/math/BigDecimal.html#add(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) augend)            Returns a BigDecimal whose value is (this + augend), and whose scale is max(this.scale(), augend.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**add**](http://docs.google.com/java/math/BigDecimal.html#add(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) augend, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this + augend), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is (this / divisor), and whose preferred scale is (this.scale() - divisor.scale()); if the exact quotient cannot be represented (because it has a non-terminating decimal expansion) an ArithmeticException is thrown. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int,%20int))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int scale, int roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is as specified. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int,%20java.math.RoundingMode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int scale, [RoundingMode](http://docs.google.com/java/math/RoundingMode.html) roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is as specified. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this / divisor), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20java.math.RoundingMode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [RoundingMode](http://docs.google.com/java/math/RoundingMode.html) roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html)[] | **BigDecimal.**[**divideAndRemainder**](http://docs.google.com/java/math/BigDecimal.html#divideAndRemainder(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a two-element BigDecimal array containing the result of divideToIntegralValue followed by the result of remainder on the two operands. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html)[] | **BigDecimal.**[**divideAndRemainder**](http://docs.google.com/java/math/BigDecimal.html#divideAndRemainder(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a two-element BigDecimal array containing the result of divideToIntegralValue followed by the result of remainder on the two operands calculated with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divideToIntegralValue**](http://docs.google.com/java/math/BigDecimal.html#divideToIntegralValue(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is the integer part of the quotient (this / divisor) rounded down. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divideToIntegralValue**](http://docs.google.com/java/math/BigDecimal.html#divideToIntegralValue(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is the integer part of (this / divisor). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**max**](http://docs.google.com/java/math/BigDecimal.html#max(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)            Returns the maximum of this BigDecimal and val. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**min**](http://docs.google.com/java/math/BigDecimal.html#min(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)            Returns the minimum of this BigDecimal and val. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**movePointLeft**](http://docs.google.com/java/math/BigDecimal.html#movePointLeft(int))(int n)            Returns a BigDecimal which is equivalent to this one with the decimal point moved n places to the left. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**movePointRight**](http://docs.google.com/java/math/BigDecimal.html#movePointRight(int))(int n)            Returns a BigDecimal which is equivalent to this one with the decimal point moved n places to the right. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**multiply**](http://docs.google.com/java/math/BigDecimal.html#multiply(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) multiplicand)            Returns a BigDecimal whose value is (this × multiplicand), and whose scale is (this.scale() + multiplicand.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**multiply**](http://docs.google.com/java/math/BigDecimal.html#multiply(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) multiplicand, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this × multiplicand), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**negate**](http://docs.google.com/java/math/BigDecimal.html#negate())()            Returns a BigDecimal whose value is (-this), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**negate**](http://docs.google.com/java/math/BigDecimal.html#negate(java.math.MathContext))([MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (-this), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**plus**](http://docs.google.com/java/math/BigDecimal.html#plus())()            Returns a BigDecimal whose value is (+this), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**plus**](http://docs.google.com/java/math/BigDecimal.html#plus(java.math.MathContext))([MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (+this), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**pow**](http://docs.google.com/java/math/BigDecimal.html#pow(int))(int n)            Returns a BigDecimal whose value is (thisn), The power is computed exactly, to unlimited precision. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**pow**](http://docs.google.com/java/math/BigDecimal.html#pow(int,%20java.math.MathContext))(int n, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (thisn). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**remainder**](http://docs.google.com/java/math/BigDecimal.html#remainder(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is (this % divisor). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**remainder**](http://docs.google.com/java/math/BigDecimal.html#remainder(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this % divisor), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**round**](http://docs.google.com/java/math/BigDecimal.html#round(java.math.MathContext))([MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal rounded according to the MathContext settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**scaleByPowerOfTen**](http://docs.google.com/java/math/BigDecimal.html#scaleByPowerOfTen(int))(int n)            Returns a BigDecimal whose numerical value is equal to (this \* 10n). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**setScale**](http://docs.google.com/java/math/BigDecimal.html#setScale(int))(int newScale)            Returns a BigDecimal whose scale is the specified value, and whose value is numerically equal to this BigDecimal's. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**setScale**](http://docs.google.com/java/math/BigDecimal.html#setScale(int,%20int))(int newScale, int roundingMode)            Returns a BigDecimal whose scale is the specified value, and whose unscaled value is determined by multiplying or dividing this BigDecimal's unscaled value by the appropriate power of ten to maintain its overall value. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**setScale**](http://docs.google.com/java/math/BigDecimal.html#setScale(int,%20java.math.RoundingMode))(int newScale, [RoundingMode](http://docs.google.com/java/math/RoundingMode.html) roundingMode)            Returns a BigDecimal whose scale is the specified value, and whose unscaled value is determined by multiplying or dividing this BigDecimal's unscaled value by the appropriate power of ten to maintain its overall value. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**stripTrailingZeros**](http://docs.google.com/java/math/BigDecimal.html#stripTrailingZeros())()            Returns a BigDecimal which is numerically equal to this one but with any trailing zeros removed from the representation. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**subtract**](http://docs.google.com/java/math/BigDecimal.html#subtract(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) subtrahend)            Returns a BigDecimal whose value is (this - subtrahend), and whose scale is max(this.scale(), subtrahend.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**subtract**](http://docs.google.com/java/math/BigDecimal.html#subtract(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) subtrahend, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this - subtrahend), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**ulp**](http://docs.google.com/java/math/BigDecimal.html#ulp())()            Returns the size of an ulp, a unit in the last place, of this BigDecimal. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**valueOf**](http://docs.google.com/java/math/BigDecimal.html#valueOf(double))(double val)            Translates a double into a BigDecimal, using the double's canonical string representation provided by the [Double.toString(double)](http://docs.google.com/java/lang/Double.html#toString(double)) method. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**valueOf**](http://docs.google.com/java/math/BigDecimal.html#valueOf(long))(long val)            Translates a long value into a BigDecimal with a scale of zero. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**valueOf**](http://docs.google.com/java/math/BigDecimal.html#valueOf(long,%20int))(long unscaledVal, int scale)            Translates a long unscaled value and an int scale into a BigDecimal. |

| Methods in [java.math](http://docs.google.com/java/math/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
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| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**add**](http://docs.google.com/java/math/BigDecimal.html#add(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) augend)            Returns a BigDecimal whose value is (this + augend), and whose scale is max(this.scale(), augend.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**add**](http://docs.google.com/java/math/BigDecimal.html#add(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) augend, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this + augend), with rounding according to the context settings. |
| int | **BigDecimal.**[**compareTo**](http://docs.google.com/java/math/BigDecimal.html#compareTo(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)            Compares this BigDecimal with the specified BigDecimal. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is (this / divisor), and whose preferred scale is (this.scale() - divisor.scale()); if the exact quotient cannot be represented (because it has a non-terminating decimal expansion) an ArithmeticException is thrown. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int,%20int))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int scale, int roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is as specified. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20int,%20java.math.RoundingMode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, int scale, [RoundingMode](http://docs.google.com/java/math/RoundingMode.html) roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is as specified. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this / divisor), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divide**](http://docs.google.com/java/math/BigDecimal.html#divide(java.math.BigDecimal,%20java.math.RoundingMode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [RoundingMode](http://docs.google.com/java/math/RoundingMode.html) roundingMode)            Returns a BigDecimal whose value is (this / divisor), and whose scale is this.scale(). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html)[] | **BigDecimal.**[**divideAndRemainder**](http://docs.google.com/java/math/BigDecimal.html#divideAndRemainder(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a two-element BigDecimal array containing the result of divideToIntegralValue followed by the result of remainder on the two operands. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html)[] | **BigDecimal.**[**divideAndRemainder**](http://docs.google.com/java/math/BigDecimal.html#divideAndRemainder(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a two-element BigDecimal array containing the result of divideToIntegralValue followed by the result of remainder on the two operands calculated with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divideToIntegralValue**](http://docs.google.com/java/math/BigDecimal.html#divideToIntegralValue(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is the integer part of the quotient (this / divisor) rounded down. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**divideToIntegralValue**](http://docs.google.com/java/math/BigDecimal.html#divideToIntegralValue(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is the integer part of (this / divisor). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**max**](http://docs.google.com/java/math/BigDecimal.html#max(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)            Returns the maximum of this BigDecimal and val. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**min**](http://docs.google.com/java/math/BigDecimal.html#min(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)            Returns the minimum of this BigDecimal and val. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**multiply**](http://docs.google.com/java/math/BigDecimal.html#multiply(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) multiplicand)            Returns a BigDecimal whose value is (this × multiplicand), and whose scale is (this.scale() + multiplicand.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**multiply**](http://docs.google.com/java/math/BigDecimal.html#multiply(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) multiplicand, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this × multiplicand), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**remainder**](http://docs.google.com/java/math/BigDecimal.html#remainder(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor)            Returns a BigDecimal whose value is (this % divisor). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**remainder**](http://docs.google.com/java/math/BigDecimal.html#remainder(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) divisor, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this % divisor), with rounding according to the context settings. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**subtract**](http://docs.google.com/java/math/BigDecimal.html#subtract(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) subtrahend)            Returns a BigDecimal whose value is (this - subtrahend), and whose scale is max(this.scale(), subtrahend.scale()). |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **BigDecimal.**[**subtract**](http://docs.google.com/java/math/BigDecimal.html#subtract(java.math.BigDecimal,%20java.math.MathContext))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) subtrahend, [MathContext](http://docs.google.com/java/math/MathContext.html) mc)            Returns a BigDecimal whose value is (this - subtrahend), with rounding according to the context settings. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [java.sql](http://docs.google.com/java/sql/package-summary.html) | |
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| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(int))(int parameterIndex)            Retrieves the value of the designated JDBC NUMERIC parameter as a java.math.BigDecimal object with as many digits to the right of the decimal point as the value contains. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(int))(int columnIndex)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.math.BigDecimal with full precision. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(int,%20int))(int parameterIndex, int scale)  **Deprecated.** *use getBigDecimal(int parameterIndex) or getBigDecimal(String parameterName)* |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(int,%20int))(int columnIndex, int scale)  **Deprecated.** |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **CallableStatement.**[**getBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#getBigDecimal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) parameterName)            Retrieves the value of a JDBC NUMERIC parameter as a java.math.BigDecimal object with as many digits to the right of the decimal point as the value contains. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) columnLabel)            Retrieves the value of the designated column in the current row of this ResultSet object as a java.math.BigDecimal with full precision. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **ResultSet.**[**getBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#getBigDecimal(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) columnLabel, int scale)  **Deprecated.** |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **SQLInput.**[**readBigDecimal**](http://docs.google.com/java/sql/SQLInput.html#readBigDecimal())()            Reads the next attribute in the stream and returns it as a java.math.BigDecimal object in the Java programming language. |

| Methods in [java.sql](http://docs.google.com/java/sql/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **PreparedStatement.**[**setBigDecimal**](http://docs.google.com/java/sql/PreparedStatement.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| void | **CallableStatement.**[**setBigDecimal**](http://docs.google.com/java/sql/CallableStatement.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |
| void | **ResultSet.**[**updateBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#updateBigDecimal(int,%20java.math.BigDecimal))(int columnIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Updates the designated column with a java.math.BigDecimal value. |
| void | **ResultSet.**[**updateBigDecimal**](http://docs.google.com/java/sql/ResultSet.html#updateBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) columnLabel, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Updates the designated column with a java.sql.BigDecimal value. |
| void | **SQLOutput.**[**writeBigDecimal**](http://docs.google.com/java/sql/SQLOutput.html#writeBigDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Writes the next attribute to the stream as a java.math.BigDecimal object. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [java.util](http://docs.google.com/java/util/package-summary.html) | |
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| Methods in [java.util](http://docs.google.com/java/util/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
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| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **Scanner.**[**nextBigDecimal**](http://docs.google.com/java/util/Scanner.html#nextBigDecimal())()            Scans the next token of the input as a [BigDecimal](http://docs.google.com/java/math/BigDecimal.html). |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.management.openmbean](http://docs.google.com/javax/management/openmbean/package-summary.html) | |
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| Fields in [javax.management.openmbean](http://docs.google.com/javax/management/openmbean/package-summary.html) with type parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| static [SimpleType](http://docs.google.com/javax/management/openmbean/SimpleType.html)<[BigDecimal](http://docs.google.com/java/math/BigDecimal.html)> | **SimpleType.**[**BIGDECIMAL**](http://docs.google.com/javax/management/openmbean/SimpleType.html#BIGDECIMAL)            The SimpleType instance describing values whose Java class name is java.math.BigDecimal. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) | |
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| Methods in [javax.sql](http://docs.google.com/javax/sql/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **RowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/RowSet.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter in this RowSet object's command to the given java.math.BigDeciaml value. |
| void | **RowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/RowSet.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) | |
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| Methods in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **BaseRowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBigDecimal(int,%20java.math.BigDecimal))(int parameterIndex, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.lang.BigDecimal value. |
| void | **BaseRowSet.**[**setBigDecimal**](http://docs.google.com/javax/sql/rowset/BaseRowSet.html#setBigDecimal(java.lang.String,%20java.math.BigDecimal))([String](http://docs.google.com/java/lang/String.html) parameterName, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Sets the designated parameter to the given java.math.BigDecimal value. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) | |
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| Methods in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **SQLInputImpl.**[**readBigDecimal**](http://docs.google.com/javax/sql/rowset/serial/SQLInputImpl.html#readBigDecimal())()            Retrieves the next attribute in this SQLInputImpl object as a java.math.BigDecimal. |

| Methods in [javax.sql.rowset.serial](http://docs.google.com/javax/sql/rowset/serial/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **SQLOutputImpl.**[**writeBigDecimal**](http://docs.google.com/javax/sql/rowset/serial/SQLOutputImpl.html#writeBigDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) x)            Writes a java.math.BigDecimal object in the Java programming language to this SQLOutputImpl object. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.xml.bind](http://docs.google.com/javax/xml/bind/package-summary.html) | |
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| Methods in [javax.xml.bind](http://docs.google.com/javax/xml/bind/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **DatatypeConverterInterface.**[**parseDecimal**](http://docs.google.com/javax/xml/bind/DatatypeConverterInterface.html#parseDecimal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) lexicalXSDDecimal)             Converts the string argument into a BigDecimal value. |
| static [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **DatatypeConverter.**[**parseDecimal**](http://docs.google.com/javax/xml/bind/DatatypeConverter.html#parseDecimal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) lexicalXSDDecimal)             Converts the string argument into a BigDecimal value. |

| Methods in [javax.xml.bind](http://docs.google.com/javax/xml/bind/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | **DatatypeConverterInterface.**[**printDecimal**](http://docs.google.com/javax/xml/bind/DatatypeConverterInterface.html#printDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)             Converts a BigDecimal value into a string. |
| static [String](http://docs.google.com/java/lang/String.html) | **DatatypeConverter.**[**printDecimal**](http://docs.google.com/javax/xml/bind/DatatypeConverter.html#printDecimal(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) val)             Converts a BigDecimal value into a string. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) | |
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| Methods in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| abstract  [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **XMLGregorianCalendar.**[**getFractionalSecond**](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html#getFractionalSecond())()            Return fractional seconds. |

| Methods in [javax.xml.datatype](http://docs.google.com/javax/xml/datatype/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **Duration.**[**multiply**](http://docs.google.com/javax/xml/datatype/Duration.html#multiply(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) factor)            Computes a new duration whose value is factor times longer than the value of this duration. |
| abstract  [Duration](http://docs.google.com/javax/xml/datatype/Duration.html) | **DatatypeFactory.**[**newDuration**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newDuration(boolean,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigDecimal))(boolean isPositive, [BigInteger](http://docs.google.com/java/math/BigInteger.html) years, [BigInteger](http://docs.google.com/java/math/BigInteger.html) months, [BigInteger](http://docs.google.com/java/math/BigInteger.html) days, [BigInteger](http://docs.google.com/java/math/BigInteger.html) hours, [BigInteger](http://docs.google.com/java/math/BigInteger.html) minutes, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) seconds)            Obtain a new instance of a Duration specifying the Duration as isPositive, years, months, days, hours, minutes, seconds. |
| abstract  [XMLGregorianCalendar](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html) | **DatatypeFactory.**[**newXMLGregorianCalendar**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newXMLGregorianCalendar(java.math.BigInteger,%20int,%20int,%20int,%20int,%20int,%20java.math.BigDecimal,%20int))([BigInteger](http://docs.google.com/java/math/BigInteger.html) year, int month, int day, int hour, int minute, int second, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) fractionalSecond, int timezone)            Constructor allowing for complete value spaces allowed by W3C XML Schema 1.0 recommendation for xsd:dateTime and related builtin datatypes. |
| [XMLGregorianCalendar](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html) | **DatatypeFactory.**[**newXMLGregorianCalendarTime**](http://docs.google.com/javax/xml/datatype/DatatypeFactory.html#newXMLGregorianCalendarTime(int,%20int,%20int,%20java.math.BigDecimal,%20int))(int hours, int minutes, int seconds, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) fractionalSecond, int timezone)            Create a Java instance of XML Schema builtin datatype time. |
| abstract  void | **XMLGregorianCalendar.**[**setFractionalSecond**](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html#setFractionalSecond(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) fractional)            Set fractional seconds. |
| void | **XMLGregorianCalendar.**[**setTime**](http://docs.google.com/javax/xml/datatype/XMLGregorianCalendar.html#setTime(int,%20int,%20int,%20java.math.BigDecimal))(int hour, int minute, int second, [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) fractional)            Set time as one unit, including the optional infinite precision fractional seconds. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [org.omg.CORBA](http://docs.google.com/org/omg/CORBA/package-summary.html) | |
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| Fields in [org.omg.CORBA](http://docs.google.com/org/omg/CORBA/package-summary.html) declared as [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **FixedHolder.**[**value**](http://docs.google.com/org/omg/CORBA/FixedHolder.html#value)            The value held by the FixedHolder |

| Methods in [org.omg.CORBA](http://docs.google.com/org/omg/CORBA/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **Any.**[**extract\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#extract_fixed())()            Extracts the java.math.BigDecimal object in this Any object's value field. |

| Methods in [org.omg.CORBA](http://docs.google.com/org/omg/CORBA/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **Any.**[**insert\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#insert_fixed(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value)            Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/org/omg/CORBA/package-summary.html#NO_IMPLEMENT) exception. |
| void | **Any.**[**insert\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#insert_fixed(java.math.BigDecimal,%20org.omg.CORBA.TypeCode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) type)            Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/org/omg/CORBA/package-summary.html#NO_IMPLEMENT) exception. |

| Constructors in [org.omg.CORBA](http://docs.google.com/org/omg/CORBA/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [**FixedHolder**](http://docs.google.com/org/omg/CORBA/FixedHolder.html#FixedHolder(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) initial)            Construct the FixedHolder and initialize it with the given value. |

| Uses of [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) in [org.omg.CORBA.portable](http://docs.google.com/org/omg/CORBA/portable/package-summary.html) | |
| --- | --- |

| Methods in [org.omg.CORBA.portable](http://docs.google.com/org/omg/CORBA/portable/package-summary.html) that return [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | **InputStream.**[**read\_fixed**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_fixed())()            Reads a BigDecimal number. |

| Methods in [org.omg.CORBA.portable](http://docs.google.com/org/omg/CORBA/portable/package-summary.html) with parameters of type [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | |
| --- | --- |
| void | **OutputStream.**[**write\_fixed**](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html#write_fixed(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value)            Writes a BigDecimal number. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/math/BigDecimal.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/math//class-useBigDecimal.html)    [**NO FRAMES**](http://docs.google.com/BigDecimal.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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