| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InputStream.html) | [**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 CLASS**](http://docs.google.com/org/omg/CORBA/portable/IndirectionException.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/portable/InvokeHandler.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/portable/InputStream.html)    [**NO FRAMES**](http://docs.google.com/InputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **org.omg.CORBA.portable**

Class InputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.InputStream](http://docs.google.com/java/io/InputStream.html)  
 **org.omg.CORBA.portable.InputStream**

**All Implemented Interfaces:** [Closeable](http://docs.google.com/java/io/Closeable.html) **Direct Known Subclasses:** [InputStream](http://docs.google.com/org/omg/CORBA_2_3/portable/InputStream.html)

public abstract class **InputStream**extends [InputStream](http://docs.google.com/java/io/InputStream.html)

InputStream is the Java API for reading IDL types from CDR marshal streams. These methods are used by the ORB to unmarshal IDL types as well as to extract IDL types out of Anys. The \_array versions of the methods can be directly used to read sequences and arrays of IDL types.

**Since:** JDK1.2

| **Constructor Summary** | |
| --- | --- |
| [**InputStream**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#InputStream())() |

| **Method Summary** | |
| --- | --- |
| [ORB](http://docs.google.com/org/omg/CORBA/ORB.html) | [**orb**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#orb())()            Returns the ORB that created this InputStream. |
| abstract  [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**read\_any**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_any())()            Reads an Any from this input stream. |
| abstract  void | [**read\_boolean\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_boolean_array(boolean%5B%5D,%20int,%20int))(boolean[] value, int offset, int length)            Reads an array of booleans from this input stream. |
| abstract  boolean | [**read\_boolean**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_boolean())()            Reads a boolean value from this input stream. |
| abstract  void | [**read\_char\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_char_array(char%5B%5D,%20int,%20int))(char[] value, int offset, int length)            Reads an array of chars from this input stream. |
| abstract  char | [**read\_char**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_char())()            Reads a char value from this input stream. |
| [Context](http://docs.google.com/org/omg/CORBA/Context.html) | [**read\_Context**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_Context())()            Reads a CORBA context from the stream. |
| abstract  void | [**read\_double\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_double_array(double%5B%5D,%20int,%20int))(double[] value, int offset, int length)            Reads an array of doubles from this input stream. |
| abstract  double | [**read\_double**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_double())()            Reads a double value from this input stream. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | [**read\_fixed**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_fixed())()            Reads a BigDecimal number. |
| abstract  void | [**read\_float\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_float_array(float%5B%5D,%20int,%20int))(float[] value, int offset, int length)            Reads an array of floats from this input stream. |
| abstract  float | [**read\_float**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_float())()            Reads a float value from this input stream. |
| abstract  void | [**read\_long\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_long_array(int%5B%5D,%20int,%20int))(int[] value, int offset, int length)            Reads an array of CORBA longs (that is, Java ints) from this input stream. |
| abstract  int | [**read\_long**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_long())()            Reads a CORBA long (that is, Java int) value from this input stream. |
| abstract  void | [**read\_longlong\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_longlong_array(long%5B%5D,%20int,%20int))(long[] value, int offset, int length)            Reads an array of CORBA longlongs (that is, Java longs) from this input stream. |
| abstract  long | [**read\_longlong**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_longlong())()            Reads a CORBA longlong (that is, Java long) value from this input stream. |
| abstract  [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**read\_Object**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_Object())()            Reads a CORBA object from this input stream. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**read\_Object**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_Object(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html) clz)            Unmarshals an object and returns a CORBA Object, which is an instance of the class passed as its argument. |
| abstract  void | [**read\_octet\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_octet_array(byte%5B%5D,%20int,%20int))(byte[] value, int offset, int length)            Reads an array of octets (that is, bytes) from this input stream. |
| abstract  byte | [**read\_octet**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_octet())()            Reads an octet (that is, a byte) value from this input stream. |
| [Principal](http://docs.google.com/org/omg/CORBA/Principal.html) | [**read\_Principal**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_Principal())()  **Deprecated.** *Deprecated by CORBA 2.2.* |
| abstract  void | [**read\_short\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_short_array(short%5B%5D,%20int,%20int))(short[] value, int offset, int length)            Reads an array of shorts from this input stream. |
| abstract  short | [**read\_short**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_short())()            Reads a short value from this input stream. |
| abstract  [String](http://docs.google.com/java/lang/String.html) | [**read\_string**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_string())()            Reads a string value from this input stream. |
| abstract  [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) | [**read\_TypeCode**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_TypeCode())()            Reads a TypeCode from this input stream. |
| abstract  void | [**read\_ulong\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ulong_array(int%5B%5D,%20int,%20int))(int[] value, int offset, int length)            Reads an array of unsigned CORBA longs (that is, Java ints) from this input stream. |
| abstract  int | [**read\_ulong**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ulong())()            Reads an unsigned CORBA long (that is, Java int) value from this input stream. |
| abstract  void | [**read\_ulonglong\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ulonglong_array(long%5B%5D,%20int,%20int))(long[] value, int offset, int length)            Reads an array of unsigned CORBA longlongs (that is, Java longs) from this input stream. |
| abstract  long | [**read\_ulonglong**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ulonglong())()            Reads a CORBA unsigned longlong (that is, Java long) value from this input stream. |
| abstract  void | [**read\_ushort\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ushort_array(short%5B%5D,%20int,%20int))(short[] value, int offset, int length)            Reads an array of unsigned shorts from this input stream. |
| abstract  short | [**read\_ushort**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_ushort())()            Reads a unsigned short value from this input stream. |
| abstract  void | [**read\_wchar\_array**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_wchar_array(char%5B%5D,%20int,%20int))(char[] value, int offset, int length)            Reads an array of wide chars from this input stream. |
| abstract  char | [**read\_wchar**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_wchar())()            Reads a wide char value from this input stream. |
| abstract  [String](http://docs.google.com/java/lang/String.html) | [**read\_wstring**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read_wstring())()            Reads a wide string value from this input stream. |
| int | [**read**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read())()            Reads the next byte of data from the input stream. |

| **Methods inherited from class java.io.**[**InputStream**](http://docs.google.com/java/io/InputStream.html) |
| --- |
| [available](http://docs.google.com/java/io/InputStream.html#available()), [close](http://docs.google.com/java/io/InputStream.html#close()), [mark](http://docs.google.com/java/io/InputStream.html#mark(int)), [markSupported](http://docs.google.com/java/io/InputStream.html#markSupported()), [read](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D)), [read](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D,%20int,%20int)), [reset](http://docs.google.com/java/io/InputStream.html#reset()), [skip](http://docs.google.com/java/io/InputStream.html#skip(long)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### InputStream

public **InputStream**()

| **Method Detail** |
| --- |

### read\_boolean

public abstract boolean **read\_boolean**()

Reads a boolean value from this input stream.

**Returns:**the boolean value read from this input stream

### read\_char

public abstract char **read\_char**()

Reads a char value from this input stream.

**Returns:**the char value read from this input stream

### read\_wchar

public abstract char **read\_wchar**()

Reads a wide char value from this input stream.

**Returns:**the char value read from this input stream

### read\_octet

public abstract byte **read\_octet**()

Reads an octet (that is, a byte) value from this input stream.

**Returns:**the byte value read from this input stream

### read\_short

public abstract short **read\_short**()

Reads a short value from this input stream.

**Returns:**the short value read from this input stream

### read\_ushort

public abstract short **read\_ushort**()

Reads a unsigned short value from this input stream.

**Returns:**the short value read from this input stream

### read\_long

public abstract int **read\_long**()

Reads a CORBA long (that is, Java int) value from this input stream.

**Returns:**the int value read from this input stream

### read\_ulong

public abstract int **read\_ulong**()

Reads an unsigned CORBA long (that is, Java int) value from this input stream.

**Returns:**the int value read from this input stream

### read\_longlong

public abstract long **read\_longlong**()

Reads a CORBA longlong (that is, Java long) value from this input stream.

**Returns:**the long value read from this input stream

### read\_ulonglong

public abstract long **read\_ulonglong**()

Reads a CORBA unsigned longlong (that is, Java long) value from this input stream.

**Returns:**the long value read from this input stream

### read\_float

public abstract float **read\_float**()

Reads a float value from this input stream.

**Returns:**the float value read from this input stream

### read\_double

public abstract double **read\_double**()

Reads a double value from this input stream.

**Returns:**the double value read from this input stream

### read\_string

public abstract [String](http://docs.google.com/java/lang/String.html) **read\_string**()

Reads a string value from this input stream.

**Returns:**the String value read from this input stream

### read\_wstring

public abstract [String](http://docs.google.com/java/lang/String.html) **read\_wstring**()

Reads a wide string value from this input stream.

**Returns:**the String value read from this input stream

### read\_boolean\_array

public abstract void **read\_boolean\_array**(boolean[] value,  
 int offset,  
 int length)

Reads an array of booleans from this input stream.

**Parameters:**value - returned array of booleans.offset - offset on the stream.length - length of buffer to read.

### read\_char\_array

public abstract void **read\_char\_array**(char[] value,  
 int offset,  
 int length)

Reads an array of chars from this input stream.

**Parameters:**value - returned array of chars.offset - offset on the stream.length - length of buffer to read.

### read\_wchar\_array

public abstract void **read\_wchar\_array**(char[] value,  
 int offset,  
 int length)

Reads an array of wide chars from this input stream.

**Parameters:**value - returned array of wide chars.offset - offset on the stream.length - length of buffer to read.

### read\_octet\_array

public abstract void **read\_octet\_array**(byte[] value,  
 int offset,  
 int length)

Reads an array of octets (that is, bytes) from this input stream.

**Parameters:**value - returned array of octets (that is, bytes).offset - offset on the stream.length - length of buffer to read.

### read\_short\_array

public abstract void **read\_short\_array**(short[] value,  
 int offset,  
 int length)

Reads an array of shorts from this input stream.

**Parameters:**value - returned array of shorts.offset - offset on the stream.length - length of buffer to read.

### read\_ushort\_array

public abstract void **read\_ushort\_array**(short[] value,  
 int offset,  
 int length)

Reads an array of unsigned shorts from this input stream.

**Parameters:**value - returned array of shorts.offset - offset on the stream.length - length of buffer to read.

### read\_long\_array

public abstract void **read\_long\_array**(int[] value,  
 int offset,  
 int length)

Reads an array of CORBA longs (that is, Java ints) from this input stream.

**Parameters:**value - returned array of CORBA longs (that is, Java ints).offset - offset on the stream.length - length of buffer to read.

### read\_ulong\_array

public abstract void **read\_ulong\_array**(int[] value,  
 int offset,  
 int length)

Reads an array of unsigned CORBA longs (that is, Java ints) from this input stream.

**Parameters:**value - returned array of CORBA longs (that is, Java ints).offset - offset on the stream.length - length of buffer to read.

### read\_longlong\_array

public abstract void **read\_longlong\_array**(long[] value,  
 int offset,  
 int length)

Reads an array of CORBA longlongs (that is, Java longs) from this input stream.

**Parameters:**value - returned array of CORBA longs (that is, Java longs).offset - offset on the stream.length - length of buffer to read.

### read\_ulonglong\_array

public abstract void **read\_ulonglong\_array**(long[] value,  
 int offset,  
 int length)

Reads an array of unsigned CORBA longlongs (that is, Java longs) from this input stream.

**Parameters:**value - returned array of CORBA longs (that is, Java longs).offset - offset on the stream.length - length of buffer to read.

### read\_float\_array

public abstract void **read\_float\_array**(float[] value,  
 int offset,  
 int length)

Reads an array of floats from this input stream.

**Parameters:**value - returned array of floats.offset - offset on the stream.length - length of buffer to read.

### read\_double\_array

public abstract void **read\_double\_array**(double[] value,  
 int offset,  
 int length)

Reads an array of doubles from this input stream.

**Parameters:**value - returned array of doubles.offset - offset on the stream.length - length of buffer to read.

### read\_Object

public abstract [Object](http://docs.google.com/org/omg/CORBA/Object.html) **read\_Object**()

Reads a CORBA object from this input stream.

**Returns:**the Object instance read from this input stream.

### read\_TypeCode

public abstract [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) **read\_TypeCode**()

Reads a TypeCode from this input stream.

**Returns:**the TypeCode instance read from this input stream.

### read\_any

public abstract [Any](http://docs.google.com/org/omg/CORBA/Any.html) **read\_any**()

Reads an Any from this input stream.

**Returns:**the Any instance read from this input stream.

### read\_Principal

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public [Principal](http://docs.google.com/org/omg/CORBA/Principal.html) **read\_Principal**()

**Deprecated.** *Deprecated by CORBA 2.2.*

Returns principal for invocation.

**Returns:**Principal for invocation.

### read

public int **read**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**InputStream**](http://docs.google.com/java/io/InputStream.html#read()) Reads the next byte of data from the input stream. The value byte is returned as an int in the range 0 to 255. If no byte is available because the end of the stream has been reached, the value -1 is returned. This method blocks until input data is available, the end of the stream is detected, or an exception is thrown.

A subclass must provide an implementation of this method.

**Specified by:**[read](http://docs.google.com/java/io/InputStream.html#read()) in class [InputStream](http://docs.google.com/java/io/InputStream.html) **Returns:**the next byte of data, or -1 if the end of the stream is reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.**See Also:**[portable package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### read\_fixed

public [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) **read\_fixed**()

Reads a BigDecimal number.

**Returns:**a java.math.BigDecimal number

### read\_Context

public [Context](http://docs.google.com/org/omg/CORBA/Context.html) **read\_Context**()

Reads a CORBA context from the stream.

**Returns:**a CORBA context**See Also:**[portable package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### read\_Object

public [Object](http://docs.google.com/org/omg/CORBA/Object.html) **read\_Object**([Class](http://docs.google.com/java/lang/Class.html) clz)

Unmarshals an object and returns a CORBA Object, which is an instance of the class passed as its argument. This class is the stub class of the expected type.

**Parameters:**clz - The Class object for the stub class which corresponds to the type that is statistically expected, or the Class object for the RMI/IDL interface type that is statistically expected. **Returns:**an Object instance of clz read from this stream**See Also:**[portable package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### orb

public [ORB](http://docs.google.com/org/omg/CORBA/ORB.html) **orb**()

Returns the ORB that created this InputStream.

**Returns:**the ORB object that created this stream**See Also:**[portable package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InputStream.html) | [**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 CLASS**](http://docs.google.com/org/omg/CORBA/portable/IndirectionException.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/portable/InvokeHandler.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/portable/InputStream.html)    [**NO FRAMES**](http://docs.google.com/InputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

[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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