| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DataInputStream.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/DATA_CONVERSION.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/DataOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/DataInputStream.html)    [**NO FRAMES**](http://docs.google.com/DataInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **org.omg.CORBA**

Interface DataInputStream

**All Superinterfaces:** [IDLEntity](http://docs.google.com/org/omg/CORBA/portable/IDLEntity.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [ValueBase](http://docs.google.com/org/omg/CORBA/portable/ValueBase.html)

public interface **DataInputStream**extends [ValueBase](http://docs.google.com/org/omg/CORBA/portable/ValueBase.html)

Defines the methods used to read primitive data types from input streams for unmarshaling custom value types. This interface is used by user written custom unmarshaling code for custom value types.

**See Also:**[DataOutputStream](http://docs.google.com/org/omg/CORBA/DataOutputStream.html), [CustomMarshal](http://docs.google.com/org/omg/CORBA/CustomMarshal.html)

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**read\_Abstract**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_Abstract())()            Reads an IDL Abstract interface from the input stream. |
| void | [**read\_any\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_any_array(org.omg.CORBA.AnySeqHolder,%20int,%20int))([AnySeqHolder](http://docs.google.com/org/omg/CORBA/AnySeqHolder.html) seq, int offset, int length)            Reads array of IDL Anys from offset for length elements from the input stream. |
| [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**read\_any**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_any())()            Reads an IDL Any value from the input stream. |
| void | [**read\_boolean\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_boolean_array(org.omg.CORBA.BooleanSeqHolder,%20int,%20int))([BooleanSeqHolder](http://docs.google.com/org/omg/CORBA/BooleanSeqHolder.html) seq, int offset, int length)            Reads array of IDL booleans from offset for length elements from the input stream. |
| boolean | [**read\_boolean**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_boolean())()            Reads an IDL boolean value from the input stream. |
| void | [**read\_char\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_char_array(org.omg.CORBA.CharSeqHolder,%20int,%20int))([CharSeqHolder](http://docs.google.com/org/omg/CORBA/CharSeqHolder.html) seq, int offset, int length)            Reads array of IDL characters from offset for length elements from the input stream. |
| char | [**read\_char**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_char())()            Reads an IDL character value from the input stream. |
| void | [**read\_double\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_double_array(org.omg.CORBA.DoubleSeqHolder,%20int,%20int))([DoubleSeqHolder](http://docs.google.com/org/omg/CORBA/DoubleSeqHolder.html) seq, int offset, int length)            Reads array of IDL doubles from offset for length elements from the input stream. |
| double | [**read\_double**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_double())()            Reads an IDL double from the input stream. |
| void | [**read\_float\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_float_array(org.omg.CORBA.FloatSeqHolder,%20int,%20int))([FloatSeqHolder](http://docs.google.com/org/omg/CORBA/FloatSeqHolder.html) seq, int offset, int length)            Reads array of IDL floats from offset for length elements from the input stream. |
| float | [**read\_float**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_float())()            Reads an IDL float from the input stream. |
| void | [**read\_long\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_long_array(org.omg.CORBA.LongSeqHolder,%20int,%20int))([LongSeqHolder](http://docs.google.com/org/omg/CORBA/LongSeqHolder.html) seq, int offset, int length)            Reads array of IDL longs from offset for length elements from the input stream. |
| int | [**read\_long**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_long())()            Reads an IDL long from the input stream. |
| void | [**read\_longlong\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_longlong_array(org.omg.CORBA.LongLongSeqHolder,%20int,%20int))([LongLongSeqHolder](http://docs.google.com/org/omg/CORBA/LongLongSeqHolder.html) seq, int offset, int length)            Reads array of IDL long longs from offset for length elements from the input stream. |
| long | [**read\_longlong**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_longlong())()            Reads an IDL long long from the input stream. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**read\_Object**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_Object())()            Reads an IDL CORBA::Object from the input stream. |
| void | [**read\_octet\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_octet_array(org.omg.CORBA.OctetSeqHolder,%20int,%20int))([OctetSeqHolder](http://docs.google.com/org/omg/CORBA/OctetSeqHolder.html) seq, int offset, int length)            Reads array of IDL octets from offset for length elements from the input stream. |
| byte | [**read\_octet**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_octet())()            Reads an IDL octet value from the input stream. |
| void | [**read\_short\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_short_array(org.omg.CORBA.ShortSeqHolder,%20int,%20int))([ShortSeqHolder](http://docs.google.com/org/omg/CORBA/ShortSeqHolder.html) seq, int offset, int length)            Reads array of IDL shorts from offset for length elements from the input stream. |
| short | [**read\_short**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_short())()            Reads an IDL short from the input stream. |
| [String](http://docs.google.com/java/lang/String.html) | [**read\_string**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_string())()            Reads an IDL string from the input stream. |
| [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) | [**read\_TypeCode**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_TypeCode())()            Reads an IDL typecode from the input stream. |
| void | [**read\_ulong\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ulong_array(org.omg.CORBA.ULongSeqHolder,%20int,%20int))([ULongSeqHolder](http://docs.google.com/org/omg/CORBA/ULongSeqHolder.html) seq, int offset, int length)            Reads array of IDL unsigned longs from offset for length elements from the input stream. |
| int | [**read\_ulong**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ulong())()            Reads an IDL unsigned long from the input stream. |
| void | [**read\_ulonglong\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ulonglong_array(org.omg.CORBA.ULongLongSeqHolder,%20int,%20int))([ULongLongSeqHolder](http://docs.google.com/org/omg/CORBA/ULongLongSeqHolder.html) seq, int offset, int length)            Reads array of IDL unsigned long longs from offset for length elements from the input stream. |
| long | [**read\_ulonglong**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ulonglong())()            Reads an unsigned IDL long long from the input stream. |
| void | [**read\_ushort\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ushort_array(org.omg.CORBA.UShortSeqHolder,%20int,%20int))([UShortSeqHolder](http://docs.google.com/org/omg/CORBA/UShortSeqHolder.html) seq, int offset, int length)            Reads array of IDL unsigned shorts from offset for length elements from the input stream. |
| short | [**read\_ushort**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_ushort())()            Reads an IDL unsigned short from the input stream. |
| [Serializable](http://docs.google.com/java/io/Serializable.html) | [**read\_Value**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_Value())()            Reads an IDL value type from the input stream. |
| void | [**read\_wchar\_array**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_wchar_array(org.omg.CORBA.WCharSeqHolder,%20int,%20int))([WCharSeqHolder](http://docs.google.com/org/omg/CORBA/WCharSeqHolder.html) seq, int offset, int length)            Reads array of IDL wide characters from offset for length elements from the input stream. |
| char | [**read\_wchar**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_wchar())()            Reads an IDL wide character value from the input stream. |
| [String](http://docs.google.com/java/lang/String.html) | [**read\_wstring**](http://docs.google.com/org/omg/CORBA/DataInputStream.html#read_wstring())()            Reads an IDL wide string from the input stream. |

| **Methods inherited from interface org.omg.CORBA.portable.**[**ValueBase**](http://docs.google.com/org/omg/CORBA/portable/ValueBase.html) |
| --- |
| [\_truncatable\_ids](http://docs.google.com/org/omg/CORBA/portable/ValueBase.html#_truncatable_ids()) |

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

### read\_any

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

Reads an IDL Any value from the input stream.

**Returns:**the Any read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_boolean

boolean **read\_boolean**()

Reads an IDL boolean value from the input stream.

**Returns:**the boolean read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_char

char **read\_char**()

Reads an IDL character value from the input stream.

**Returns:**the character read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_wchar

char **read\_wchar**()

Reads an IDL wide character value from the input stream.

**Returns:**the wide character read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_octet

byte **read\_octet**()

Reads an IDL octet value from the input stream.

**Returns:**the octet value read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_short

short **read\_short**()

Reads an IDL short from the input stream.

**Returns:**the short read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ushort

short **read\_ushort**()

Reads an IDL unsigned short from the input stream.

**Returns:**the unsigned short read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_long

int **read\_long**()

Reads an IDL long from the input stream.

**Returns:**the long read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ulong

int **read\_ulong**()

Reads an IDL unsigned long from the input stream.

**Returns:**the unsigned long read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_longlong

long **read\_longlong**()

Reads an IDL long long from the input stream.

**Returns:**the long long read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ulonglong

long **read\_ulonglong**()

Reads an unsigned IDL long long from the input stream.

**Returns:**the unsigned long long read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_float

float **read\_float**()

Reads an IDL float from the input stream.

**Returns:**the float read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_double

double **read\_double**()

Reads an IDL double from the input stream.

**Returns:**the double read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_string

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

Reads an IDL string from the input stream.

**Returns:**the string read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_wstring

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

Reads an IDL wide string from the input stream.

**Returns:**the wide string read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_Object

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

Reads an IDL CORBA::Object from the input stream.

**Returns:**the CORBA::Object read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_Abstract

[Object](http://docs.google.com/java/lang/Object.html) **read\_Abstract**()

Reads an IDL Abstract interface from the input stream.

**Returns:**the Abstract interface read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_Value

[Serializable](http://docs.google.com/java/io/Serializable.html) **read\_Value**()

Reads an IDL value type from the input stream.

**Returns:**the value type read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_TypeCode

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

Reads an IDL typecode from the input stream.

**Returns:**the typecode read. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_any\_array

void **read\_any\_array**([AnySeqHolder](http://docs.google.com/org/omg/CORBA/AnySeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL Anys from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_boolean\_array

void **read\_boolean\_array**([BooleanSeqHolder](http://docs.google.com/org/omg/CORBA/BooleanSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL booleans from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_char\_array

void **read\_char\_array**([CharSeqHolder](http://docs.google.com/org/omg/CORBA/CharSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL characters from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_wchar\_array

void **read\_wchar\_array**([WCharSeqHolder](http://docs.google.com/org/omg/CORBA/WCharSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL wide characters from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_octet\_array

void **read\_octet\_array**([OctetSeqHolder](http://docs.google.com/org/omg/CORBA/OctetSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL octets from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_short\_array

void **read\_short\_array**([ShortSeqHolder](http://docs.google.com/org/omg/CORBA/ShortSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL shorts from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ushort\_array

void **read\_ushort\_array**([UShortSeqHolder](http://docs.google.com/org/omg/CORBA/UShortSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL unsigned shorts from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_long\_array

void **read\_long\_array**([LongSeqHolder](http://docs.google.com/org/omg/CORBA/LongSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL longs from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ulong\_array

void **read\_ulong\_array**([ULongSeqHolder](http://docs.google.com/org/omg/CORBA/ULongSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL unsigned longs from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_ulonglong\_array

void **read\_ulonglong\_array**([ULongLongSeqHolder](http://docs.google.com/org/omg/CORBA/ULongLongSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL unsigned long longs from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_longlong\_array

void **read\_longlong\_array**([LongLongSeqHolder](http://docs.google.com/org/omg/CORBA/LongLongSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL long longs from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_float\_array

void **read\_float\_array**([FloatSeqHolder](http://docs.google.com/org/omg/CORBA/FloatSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL floats from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

### read\_double\_array

void **read\_double\_array**([DoubleSeqHolder](http://docs.google.com/org/omg/CORBA/DoubleSeqHolder.html) seq,  
 int offset,  
 int length)

Reads array of IDL doubles from offset for length elements from the input stream.

**Parameters:**seq - The out parameter holder for the array to be read.offset - The index into seq of the first element to read from the input stream.length - The number of elements to read from the input stream. **Throws:** org.omg.CORBA.MARSHAL - If an inconsistency is detected, including not having registered a streaming policy, then the standard system exception MARSHAL is raised.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DataInputStream.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/DATA_CONVERSION.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/DataOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/DataInputStream.html)    [**NO FRAMES**](http://docs.google.com/DataInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[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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