

Class `java.io.DataOutputStream`

```
java.lang.Object
|
+----java.io.OutputStream
      |
      +----java.io.FilterOutputStream
            |
            +----java.io.DataOutputStream
```

public class **DataOutputStream**
extends [FilterOutputStream](#)
implements [DataOutput](#)

This class lets you write primitive Java data types to a stream in a portable way. Primitive data types are well understood types with associated operations. For example, an Integer is considered to be a good primitive data type. The data can be converted back using a `DataInputStream`.

Variable Index

- o **written**
The number of bytes written so far.

Constructor Index

- o **DataOutputStream(OutputStream)**
Creates a new `DataOutputStream`.

Method Index

- o **flush()**
Flushes the stream.
- o **size()**
Returns the number of bytes written.
- o **write(int)**
Writes a byte.
- o **write(byte[], int, int)**
Writes a sub array of bytes.

- o **writeBoolean**(boolean)
Writes a boolean.
- o **writeByte**(int)
Writes an 8 bit byte.
- o **writeBytes**(String)
Writes a String as a sequence of bytes.
- o **writeChar**(int)
Writes a 16 bit char.
- o **writeChars**(String)
Writes a String as a sequence of chars.
- o **writeDouble**(double)
Writes a 64 bit double.
- o **writeFloat**(float)
Writes a 32 bit float.
- o **writeInt**(int)
Writes a 32 bit int.
- o **writeLong**(long)
Writes a 64 bit long.
- o **writeShort**(int)
Writes a 16 bit short.
- o **writeUTF**(String)
Writes a String in UTF format.

Variables

- o **written**

`protected int written`

The number of bytes written so far.

Constructors

- o **DataOutputStream**

`public DataOutputStream(OutputStream out)`

Creates a new `DataOutputStream`.

Parameters:

out – the output stream

Methods

- o **write**

`public synchronized void write(int b) throws IOException`

Writes a byte. Will block until the byte is actually written.

Parameters:

b – the byte to be written

Throws: IOException

If an I/O error has occurred.

Overrides:

write in class FilterOutputStream

o write

```
public synchronized void write(byte b[],  
                                int off,  
                                int len) throws IOException
```

Writes a sub array of bytes.

Parameters:

b – the data to be written

off – the start offset in the data

len – the number of bytes that are written

Throws: IOException

If an I/O error has occurred.

Overrides:

write in class FilterOutputStream

o flush

```
public void flush() throws IOException
```

Flushes the stream. This will write any buffered output bytes.

Throws: IOException

If an I/O error has occurred.

Overrides:

flush in class FilterOutputStream

o writeBoolean

```
public final void writeBoolean(boolean v) throws IOException
```

Writes a boolean.

Parameters:

v – the boolean to be written

o writeByte

```
public final void writeByte(int v) throws IOException
```

Writes an 8 bit byte.

Parameters:

v – the byte value to be written

o **writeShort**

```
public final void writeShort(int v) throws IOException
```

Writes a 16 bit short.

Parameters:

v – the short value to be written

o **writeChar**

```
public final void writeChar(int v) throws IOException
```

Writes a 16 bit char.

Parameters:

v – the char value to be written

o **writeInt**

```
public final void writeInt(int v) throws IOException
```

Writes a 32 bit int.

Parameters:

v – the integer value to be written

o **writeLong**

```
public final void writeLong(long v) throws IOException
```

Writes a 64 bit long.

Parameters:

v – the long value to be written

o **writeFloat**

```
public final void writeFloat(float v) throws IOException
```

Writes a 32 bit float.

Parameters:

v – the float value to be written

o **writeDouble**

```
public final void writeDouble(double v) throws IOException
```

Writes a 64 bit double.

Parameters:

v – the double value to be written

o **writeBytes**

```
public final void writeBytes(String s) throws IOException
```

Writes a String as a sequence of bytes.

Parameters:

s – the String of bytes to be written

o writeChars

```
public final void writeChars(String s) throws IOException
```

Writes a String as a sequence of chars.

Parameters:

s – the String of chars to be written

o writeUTF

```
public final void writeUTF(String str) throws IOException
```

Writes a String in UTF format.

Parameters:

str – the String in UTF format

o size

```
public final int size()
```

Returns the number of bytes written.

Returns:

the number of bytes written thus far.