Class java.io.DataInputStream

```
java.lang.Object
   |
   +----java.io.InputStream
           |
           +----java.io.FilterInputStream
                   |
                   +----java.io.DataInputStream
```

---

public class **DataInputStream**
extends FilterInputStream
implements DataInput

A data input stream that lets you read primitive Java data types from a stream in a portable way. Primitive data types are well understood types with associated operations. For example, Integers are considered primitive data types.

See Also:
DataOutputStream
Version:
1.27, 08/15/95
Author:
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Constructor Index

o **DataInputStream**(InputStream)
Creates a new DataInputStream.

Method Index

o **read**(byte[])
Reads data into an array of bytes.
o **read**(byte[], int, int)
Reads data into an array of bytes.
o **readBoolean**()
Reads in a boolean.

- **readByte**()
  Reads an 8 bit byte.
- **readChar**()
  Reads a 16 bit char.
- **readDouble**()
  Reads a 64 bit double.
- **readFloat**()
  Reads a 32 bit float.
- **readFully**(byte[])
  Reads bytes, blocking until all bytes are read.
- **readFully**(byte[], int, int)
  Reads bytes, blocking until all bytes are read.
- **readInt**()
  Reads a 32 bit int.
- **readLine**()
  Reads in a line that has been terminated by a \n, \r, \r\n or EOF.
- **readLong**()
  Reads a 64 bit long.
- **readShort**()
  Reads 16 bit short.
- **readUTF**()
  Reads a UTF format String.
- **readUTF**(DataInput)
  Reads a UTF format String from the given input stream.
- **readUnsignedByte**()
  Reads an unsigned 8 bit byte.
- **readUnsignedShort**()
  Reads 16 bit short.
- **skipBytes**(int)
  Skips bytes, block until all bytes are skipped.

Constructors

- **DataInputStream**

```
public DataInputStream(InputStream in)
```

  Creates a new DataInputStream.
  Parameters:
    in – the input stream

Methods

- **read**

```
public final int read(byte b[]) throws IOException
```

  Reads data into an array of bytes. This method blocks until some input is available.

Parameters:
b – the buffer into which the data is read
Returns:
the actual number of bytes read, –1 is returned when the end of the stream is reached.
Throws: IOException
If an I/O error has occurred.
Overrides:
read in class FilterInputStream

o **read**

```
public final int read(byte b[],
                      int off,
                      int len) throws IOException
```

Reads data into an array of bytes. This method blocks until some input is available.
Parameters:
b – the buffer into which the data is read
off – the start offset of the data
len – the maximum number of bytes read
Returns:
the actual number of bytes read, –1 is returned when the end of the stream is reached.
Throws: IOException
If an I/O error has occurred.
Overrides:
read in class FilterInputStream

o **readFully**

```
public final void readFully(byte b[]) throws IOException
```

Reads bytes, blocking until all bytes are read.
Parameters:
b – the buffer into which the data is read
Throws: IOException
If an I/O error has occurred.
Throws: EOFException
If EOF reached before all bytes are read.

o **readFully**

```
public final void readFully(byte b[],
                            int off,
                            int len) throws IOException
```

Reads bytes, blocking until all bytes are read.
Parameters:
b – the buffer into which the data is read
off – the start offset of the data
len – the maximum number of bytes read

Throws: IOException
If an I/O error has occurred.
Throws: EOFException
If EOF reached before all bytes are read.

o **skipBytes**

```
public final int skipBytes(int n) throws IOException
```

Skips bytes, block until all bytes are skipped.
Parameters:
n – the number of bytes to be skipped
Returns:
the actual number of bytes skipped.
Throws: IOException
If an I/O error has occurred.

o **readBoolean**

```
public final boolean readBoolean() throws IOException
```

Reads in a boolean.
Returns:
the boolean read.

o **readByte**

```
public final byte readByte() throws IOException
```

Reads an 8 bit byte.
Returns:
the 8 bit byte read.

o **readUnsignedByte**

```
public final int readUnsignedByte() throws IOException
```

Reads an unsigned 8 bit byte.
Returns:
the 8 bit byte read.

o **readShort**

```
public final short readShort() throws IOException
```

Reads 16 bit short.
Returns:
the read 16 bit short.

o **readUnsignedShort**

```
public final int readUnsignedShort() throws IOException
```

Reads 16 bit short.
Returns:
the read 16 bit short.

o **readChar**

```
public final char readChar() throws IOException
```

Reads a 16 bit char.
Returns:
the read 16 bit char.

o **readInt**

```
public final int readInt() throws IOException
```

Reads a 32 bit int.
Returns:
the read 32 bit integer.

o **readLong**

```
public final long readLong() throws IOException
```

Reads a 64 bit long.
Returns:
the read 64 bit long.

o **readFloat**

```
public final float readFloat() throws IOException
```

Reads a 32 bit float.
Returns:
the read 32 bit float.

o **readDouble**

```
public final double readDouble() throws IOException
```

Reads a 64 bit double.
Returns:
the read 64 bit double.

o **readLine**

```
public final String readLine() throws IOException
```

Reads in a line that has been terminated by a \n, \r, \r\n or EOF.

Returns:

a String copy of the line.

o **readUTF**

```
public final String readUTF() throws IOException
```

Reads a UTF format String.

Returns:

the String.

o **readUTF**

```
public final static String readUTF(DataInput in) throws IOException
```

Reads a UTF format String from the given input stream.

Returns:

the String.