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jminusminus

## Class CLInputStream

- [java.lang.Object](#)
  - [java.io.InputStream](#)
    - [java.io.FilterInputStream](#)
      - [java.io.DataInputStream](#)
        - [jminusminus.CLInputStream](#)
- All Implemented Interfaces:  
[Closeable](#), [DataInput](#), [AutoCloseable](#)

```
class CLInputStream  
extends DataInputStream
```

Inherits from [java.io.DataInputStream](#) and provides an extra function for reading unsigned int from the input stream, which is required for reading Java class files.

- **Field Summary**
- **Fields inherited from class [java.io.FilterInputStream](#)**  
[in](#)
- **Constructor Summary**

Constructors

### Constructor and Description

```
CLInputStream(InputStream in)
```

Construct a CLInputStream object from the specified input stream.

- **Method Summary**

Methods	
Modifier and Type	Method and Description
long	<b><code>readUnsignedInt()</code></b> Read four input bytes and return a long value in the range 0 through 4294967295.

- **Methods inherited from class `java.io.DataInputStream`**

`read`, `read`, `readBoolean`, `readByte`, `readChar`, `readDouble`, `readFloat`, `readFully`, `readFully`, `readInt`, `readLine`, `readLong`, `readShort`, `readUnsignedByte`, `readUnsignedShort`, `readUTF`, `readUTF`, `skipBytes`

- **Methods inherited from class `java.io.FilterInputStream`**

`available`, `close`, `mark`, `markSupported`, `read`, `reset`, `skip`

- **Methods inherited from class `java.lang.Object`**

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

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- **Constructor Detail**

- **`CLInputStream`**

`public CLInputStream(InputStream in)`

Construct a CLInputStream object from the specified input stream.

**Parameters**

`in` - input stream.

- **Method Detail**

- **`readUnsignedInt`**

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

Read four input bytes and return a long value in the range 0 through 4294967295. Let a, b, c, d be the four bytes. The value returned is:

```
( b[ 0 ] & 0xFF ) << 24 ) |
( ( b[ 1 ] & 0xFF ) << 16 ) |
( ( b[ 2 ] & 0xFF ) << 8 ) |
( b[ 3 ] & 0xFF )
```

**Returns:**

the unsigned 32-bit value.

**Throws:**

`EOFException` - if this stream reaches the end before reading all the bytes.

`IOException` - if an I/O error occurs.

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