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jminusminus

## Class CLConstantPool

- [java.lang.Object](#)
- [jminusminus.CLConstantPool](#)

.

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```
class CLConstantPool  
extends Object
```

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Representation of a class' constant\_pool table (JVM Spec Section 4.5). An instance of CLConstantPool is created when a class is read using CLAbsorber or constructed using CLEmitter.

### • Constructor Summary

Constructors

#### Constructor and Description

**CLConstantPool()**

Construct a CLConstantPool object.

### • Method Summary

Methods

**Modifier and  
Type**

**Method and Description**

int

**addCPItem**(CLCPInfo cpInfo)

Add the specified (non null) item to the constant pool table and return its index.

int

**constantClassInfo**(String s)

Return the constant pool index of a singleton instance of CLConstantClassInfo.

int **constantDoubleInfo**(double d)  
Return the constant pool index of a singleton instance of CLConstantDoubleInfo.

int **constantFieldRefInfo**(String className, String name, String type)  
Return the constant pool index of a singleton instance of CLConstantFieldRefInfo.

int **constantFloatInfo**(float f)  
Return the constant pool index of a singleton instance of CLConstantFloatInfo.

int **constantIntegerInfo**(int i)  
Return the constant pool index of a singleton instance of CLConstantIntegerInfo.

int **constantInterfaceMethodRefInfo**(String className, String name, String type)  
Return the constant pool index of a singleton instance of CLConstantInterfaceMethodRefInfo.

int **constantLongInfo**(long l)  
Return the constant pool index of a singleton instance of CLConstantLongInfo.

int **constantMethodRefInfo**(String className, String name, String type)  
Return the constant pool index of a singleton instance of CLConstantMethodRefInfo.

int **constantNameAndTypeInfo**(String name, String type)  
Return the constant pool index of a singleton instance of CLConstantNameAndTypeInfo.

int **constantStringInfo**(String s)  
Return the constant pool index of a singleton instance of CLConstantStringInfo.

int **constantUtf8Info**(String s)  
Return the constant pool index of a singleton instance of CLConstantUtf8Info.

CLCPInfo **cpItem**(int i)  
Return the constant pool item at the specified index, or null if the index is invalid.

int **find**(CLCPInfo cpInfo)  
Return the constant pool index of the specified item if it exists in the pool, -1 otherwise.

int **size**()  
Return the size of the constant pool.

void **write**(CLOutputStream out)  
Write the contents of the constant\_pool to the specified output stream.

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```
void writeToStdOut(PrettyPrinter p)
    Write the contents of the constant pool to STDOUT in a format
    similar to that of javap.
```

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

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

- **Constructor Detail**

- **CLConstantPool**

publicCLConstantPool()

Construct a CLConstantPool object.

- **Method Detail**

- **size**

publicintsize()

Return the size of the constant pool.

**Returns:**

the size of the constant pool.

- **find**

publicintfind(CLCPInfocpInfo)

Return the constant pool index of the specified item if it exists in the pool, -1 otherwise.

**Parameters:**

cpInfo - item to find.

**Returns:**

the constant pool index or -1.

- **cpItem**

publicCLCPInfocpItem(inti)

Return the constant pool item at the specified index, or null if the index is invalid.

**Parameters:**

i - constant pool index.

**Returns:**

the constant pool item or null.

- **addCPItem**

publicintaddCPItem(CLCPInfocpInfo)

Add the specified (non null) item to the constant pool table and return its index.

**Parameters:**

cpInfo - the item to add to the constant pool table.

**Returns:**

constant pool index of the item.

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- **write**

```
public void write(CLOutputStream out)
    throws IOException
```

Write the contents of the constant\_pool to the specified output stream.

**Parameters:**

out - output stream.

**Throws:**

IOException - if an error occurs while writing.

- **writeToStdOut**

```
public void writeToStdOut(PrettyPrinter p)
```

Write the contents of the constant pool to STDOUT in a format similar to that of javap.

**Parameters:**

p - for pretty printing with indentation.

- **constantClassInfo**

```
public int constantClassInfo(String s)
```

Return the constant pool index of a singleton instance of CLConstantClassInfo.

**Parameters:**

s - class or interface name in internal form.

**Returns:**

constant pool index.

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**constantFieldRefInfo**

```
public int constantFieldRefInfo(String className,
    String name,
    String type)
```

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Return the constant pool index of a singleton instance of CLConstantFieldRefInfo.

**Parameters:**

className - class or interface name in internal form.

name - name of the field.

type - descriptor of the field.

**Returns:**

constant pool index.

- **constantMethodRefInfo**

```
public int constantMethodRefInfo(String className,
    String name,
    String type)
```

Return the constant pool index of a singleton instance of CLConstantMethodRefInfo.

**Parameters:**

className - class or interface name in internal form.

name - name of the method.

type - descriptor of the method.

**Returns:**

constant pool index.

- **constantInterfaceMethodInfo**

```
public int constantInterfaceMethodInfo(String className,  
                                     String name,  
                                     String type)
```

Return the constant pool index of a singleton instance of CLConstantInterfaceMethodInfo.

**Parameters:**

className - class or interface name in internal form.  
name - name of the method.  
type - descriptor of the method.

**Returns:**

constant pool index.

- **constantStringInfo**

```
public int constantStringInfo(String s)
```

Return the constant pool index of a singleton instance of CLConstantStringInfo.

**Parameters:**

s - the constant string value.

**Returns:**

constant pool index.

- **constantIntegerInfo**

```
public int constantIntegerInfo(int i)
```

Return the constant pool index of a singleton instance of CLConstantIntegerInfo.

**Parameters:**

i - the constant int value.

**Returns:**

constant pool index.

- **constantFloatInfo**

```
public int constantFloatInfo(float f)
```

Return the constant pool index of a singleton instance of CLConstantFloatInfo.

**Parameters:**

f - the constant floating-point value.

**Returns:**

constant pool index.

- **constantLongInfo**

```
public int constantLongInfo(long l)
```

Return the constant pool index of a singleton instance of CLConstantLongInfo.

**Parameters:**

l - the constant long value.

**Returns:**

constant pool index.

- **constantDoubleInfo**

```
public int constantDoubleInfo(double d)
```

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Return the constant pool index of a singleton instance of CLConstantDoubleInfo.

**Parameters:**

d - the constant double value.

**Returns:**

constant pool index.

- **constantNameAndTypeInfo**

```
public int constantNameAndTypeInfo(String name,  
                                  String type)
```

Return the constant pool index of a singleton instance of CLConstantNameAndTypeInfo.

**Parameters:**

name - field or method name.

type - field or method type descriptor.

**Returns:**

constant pool index.

- **constantUtf8Info**

```
public int constantUtf8Info(String s)
```

Return the constant pool index of a singleton instance of CLConstantUtf8Info.

**Parameters:**

s - the constant string value.

**Returns:**

constant pool index.

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