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jminusminus

Class CLFile

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

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```
class CLFile
extends Object
```

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Representation of the ClassFile structure (JVM Spec Section 4.2). An instance of CLFile is created when a class is read using CLAbsorber or constructed using CLEmitter. We have our own representation and don't use java.lang.Class because Java does not offer an interface to programmatically create a class file in memory other than creating it in one shot from a byte stream.

- **Field Summary**

Fields	
Modifier and Type	Field and Description
int	accessFlags ClassFile.access_flags item.
ArrayList<CLAttributeInfo>	attributes ClassFile.attributes item.
int	attributesCount ClassFile.attributes_count item.
CLConstantPool	constantPool ClassFile.constant_pool item.
int	constantPoolCount ClassFile.constant_pool_count

	item.
<code>ArrayList<CLFieldInfo></code>	fields ClassFile.fields item.
<code>int</code>	fieldsCount ClassFile.fields_count item.
<code>ArrayList<Integer></code>	interfaces ClassFile.interfaces item.
<code>int</code>	interfacesCount ClassFile.interfaces_count item.
<code>long</code>	magic ClassFile.magic item.
<code>int</code>	majorVersion ClassFile.major_version item.
<code>ArrayList<CLMethodInfo></code>	methods ClassFile.methods item.
<code>int</code>	methodsCount ClassFile.methods_count item.
<code>int</code>	minorVersion ClassFile.minor_version item.
<code>int</code>	superClass ClassFile.super_class item.
<code>int</code>	thisClass ClassFile.this_class item.

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- Constructor Summary

Constructors

**Constructor and
Description**

CLFile()

- Method Summary

Methods

**Modifier
and Type**

Method and Description

<code>static int</code>	accessFlagToInt (String accessFlag) Return the integer value (mask) corresponding to the specified access flag.
<code>static String</code>	classAccessFlagsToString (int accessFlags) Return (as a string) the class access permissions and properties contained in the specified mask of flags.
<code>static String</code>	fieldAccessFlagsToString (int accessFlags) Return (as a string) the field access permissions and properties contained in the specified mask of flags.

static String	innerClassAccessFlagsToString (int accessFlags) Return (as a string) the inner class access permissions and properties contained in the specified mask of flags.
static String	methodAccessFlagsToString (int accessFlags) Return (as a string) the method access permissions and properties contained in the specified mask of flags.
void	write (CLOutputStream out) Write the contents of this class to the specified output stream.
void	writeToStdout () Write the contents of the class file 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

- **Field Detail**

- **magic**

public long magic

ClassFile.magic item.

- **minorVersion**

public int minorVersion

ClassFile.minor_version item.

- **majorVersion**

public int majorVersion

ClassFile.major_version item.

- **constantPoolCount**

public int constantPoolCount

ClassFile.constant_pool_count item.

- **constantPool**

public CLConstantPool constantPool

ClassFile.constant_pool item.

- **accessFlags**

public int accessFlags

ClassFile.access_flags item.

- **thisClass**

public int thisClass

ClassFile.this_class item.

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- **superClass**

public int superClass

ClassFile.super_class item.

- **interfacesCount**

public int interfacesCount

ClassFile.interfaces_count item.

- **interfaces**

public ArrayList<Integer> interfaces

ClassFile.interfaces item.

- **fieldsCount**

public int fieldsCount

ClassFile.fields_count item.

- **fields**

public ArrayList<CLFieldInfo> fields

ClassFile.fields item.

- **methodsCount**

public int methodsCount

ClassFile.methods_count item.

- **methods**

public ArrayList<CLMethodInfo> methods

ClassFile.methods item.

- **attributesCount**

public int attributesCount

ClassFile.attributes_count item.

- **attributes**

public ArrayList<CLAttributeInfo> attributes

ClassFile.attributes item.

- **Constructor Detail**

- **CLFile**

CLFile()

- **Method Detail**

- **write**

public void write(CLOutputStreamout)
throws IOException

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Write the contents of this class to the specified output stream.

Parameters:

out - output stream.

Throws:

`IOException` - if an error occurs while writing.

- **writeToStdOut**

```
public void writeToStdOut()
```

Write the contents of the class file to STDOUT in a format similar to that of javap.

- **classAccessFlagsToString**

```
public static String classAccessFlagsToString(int accessFlags)
```

Return (as a string) the class access permissions and properties contained in the specified mask of flags.

Parameters:

accessFlags - mask of access flags.

Returns:

a string identifying class access permissions and properties.

- **innerClassAccessFlagsToString**

```
public static String innerClassAccessFlagsToString(int accessFlags)
```

Return (as a string) the inner class access permissions and properties contained in the specified mask of flags.

Parameters:

accessFlags - mask of access flags.

Returns:

a string identifying the inner class access permissions and properties.

- **fieldAccessFlagsToString**

```
public static String fieldAccessFlagsToString(int accessFlags)
```

Return (as a string) the field access permissions and properties contained in the specified mask of flags.

Parameters:

accessFlags - mask of access flags.

Returns:

a string identifying the field access permissions and properties.

- **methodAccessFlagsToString**

```
public static String methodAccessFlagsToString(int accessFlags)
```

Return (as a string) the method access permissions and properties contained in the specified mask of flags.

Parameters:

accessFlags - mask of access flags.

Returns:

a string identifying the method access permissions and properties.

- **accessFlagToInt**

```
public static int accessFlagToInt(String accessFlag)
```

Return the integer value (mask) corresponding to the specified access flag.

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Parameters:

accessFlag - access flag.

Returns:

the integer mask.

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