

NAME

javap – Disassembles one or more class files.

SYNOPSIS

javap [*options*] *classfile*...

options

The command-line options. See Options.

classfile

One or more classes separated by spaces to be processed for annotations such as DocFooter.class. You can specify a class that can be found in the class path, by its file name or with a URL such as

file:///home/user/myproject/src/DocFooter.class.

DESCRIPTION

The **javap** command disassembles one or more class files. The output depends on the options used. When no options are used, then the **javap** command prints the package, protected and public fields, and methods of the classes passed to it. The **javap** command prints its output to **stdout**.

OPTIONS

-help

--help

-?

Prints a help message for the **javap** command.

-version

Prints release information.

-l

Prints line and local variable tables.

-public

Shows only public classes and members.

-protected

Shows only protected and public classes and members.

-private

-p

Shows all classes and members.

-J*option*

Passes the specified option to the JVM. For example:

javap -J-version

javap -J-Djava.security.manager -J-Djava.security.policy=MyPolicy MyClassName

For more information about JVM options, see the command documentation.

-s

Prints internal type signatures.

-sysinfo

Shows system information (path, size, date, MD5 hash) of the class being processed.

-constants

Shows **static final** constants.

-c

Prints disassembled code, for example, the instructions that comprise the Java bytecodes, for each of the methods in the class.

-verbose

Prints stack size, number of locals and arguments for methods.

- classpath *path*
Specifies the path the **javap** command uses to look up classes. Overrides the default or the **CLASSPATH** environment variable when it is set.
- bootclasspath *path*
Specifies the path from which to load bootstrap classes. By default, the bootstrap classes are the classes that implement the core Java platform located in **jre/lib/rt.jar** and several other JAR files.
- extdir *dirs*
Overrides the location at which installed extensions are searched for. The default location for extensions is the value of **java.ext.dirs**.

EXAMPLE

Compile the following **DocFooter** class:

```
import java.awt.*;
import java.applet.*;

public class DocFooter extends Applet {
    String date;
    String email;

    public void init() {
        resize(500,100);
        date = getParameter("LAST_UPDATED");
        email = getParameter("EMAIL");
    }

    public void paint(Graphics g) {
        g.drawString(date + " by ",100, 15);
        g.drawString(email,290,15);
    }
}
```

The output from the **javap DocFooter.class** command yields the following:

```
Compiled from "DocFooter.java"
public class DocFooter extends java.applet.Applet {
    java.lang.String date;
    java.lang.String email;
    public DocFooter();
    public void init();
    public void paint(java.awt.Graphics);
}
```

The output from **javap -c DocFooter.class** command yields the following:

```
Compiled from "DocFooter.java"
public class DocFooter extends java.applet.Applet {
    java.lang.String date;
    java.lang.String email;

    public DocFooter();
    Code:
        0: aload_0
```

```

    1: invokespecial #1          // Method
java/applet/Applet.<init>():V
    4: return

public void init();
Code:
    0: aload_0
    1: sipush    500
    4: bipush    100
    6: invokevirtual #2          // Method resize:(II)V
    9: aload_0
   10: aload_0
   11: ldc      #3              // String LAST_UPDATED
   13: invokevirtual #4          // Method
getParameter:(Ljava/lang/String;)Ljava/lang/String;
   16: putfield  #5              // Field date:Ljava/lang/String;
   19: aload_0
   20: aload_0
   21: ldc      #6              // String EMAIL
   23: invokevirtual #4          // Method
getParameter:(Ljava/lang/String;)Ljava/lang/String;
   26: putfield  #7              // Field email:Ljava/lang/String;
   29: return

public void paint(java.awt.Graphics);
Code:
    0: aload_1
    1: new       #8              // class java/lang/StringBuilder
    4: dup
    5: invokespecial #9          // Method
java/lang/StringBuilder.<init>():V
    8: aload_0
    9: getfield  #5              // Field date:Ljava/lang/String;
   12: invokevirtual #10         // Method
java/lang/StringBuilder.append:(Ljava/lang/String;)Ljava/lang/StringBuilder;
   15: ldc      #11              // String by
   17: invokevirtual #10         // Method
java/lang/StringBuilder.append:(Ljava/lang/String;)Ljava/lang/StringBuilder;
   20: invokevirtual #12         // Method
java/lang/StringBuilder.toString():Ljava/lang/String;
   23: bipush    100
   25: bipush    15
   27: invokevirtual #13         // Method
java/awt/Graphics.drawString:(Ljava/lang/String;II)V
   30: aload_1
   31: aload_0
   32: getfield  #7              // Field email:Ljava/lang/String;
   35: sipush    290
   38: bipush    15
   40: invokevirtual #13         // Method
java/awt/Graphics.drawString:(Ljava/lang/String;II)V
   43: return
}

```

SEE ALSO

- [java\(1\)](#)
- [javac\(1\)](#)
- [javadoc\(1\)](#)
- [jdb\(1\)](#)
- [jdeps\(1\)](#)

