



Linux Ubuntu 26.04 Manual Pages on command 'javap.1'

\$ man javap.1

JAVAP(1)

JDK Commands

JAVAP(1)

NAME

javap - disassemble one or more class files

SYNOPSIS

javap [options] classes...

options

Specifies the command-line options. See Options for javap.

classes

Specifies one or more classes separated by spaces to be processed for annotations.

You can specify a class that can be found in the class path by its file name, URL, or by its fully qualified class name.

Examples:

path/to/MyClass.class

jar:file:///path/to/MyJar.jar!/mypkg/MyClass.class

java.lang.Object

DESCRIPTION

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

The javap command isn't multirelease JAR aware. Using the class path form of the command results in viewing the base entry in all JAR files, multirelease or not. Using the URL form, you can use the URL form of an argument to specify a specific version of a class to be disassembled.

The javap command prints its output to stdout.

Note:

In tools that support -- style options, the GNU-style options can use the equal sign (=) instead of a white space to separate the name of an option from its value.

OPTIONS FOR JAVAP

--help, -help, -h, or -?

Prints a help message for the javap command.

-version

Prints release information.

-verbose or -v

Prints additional information about the selected class.

-l Prints line and local variable tables.

-public

Shows only public classes and members.

-protected

Shows only protected and public classes and members.

-package

Shows package/protected/public classes and members (default).

-private or -p

Shows all classes and members.

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

-s Prints internal type signatures.

-sysinfo

Shows system information (path, size, date, SHA-256 hash) of the class being processed.

-verify

Prints additional class verification info.

-constants

Shows static final constants.

--module module or -m module

Specifies the module containing classes to be disassembled.

--module-path path

Specifies where to find application modules.

--system jdk

Specifies where to find system modules.

--class-path path, -classpath path, or -cp path

Specifies the path that the javap command uses to find user class files. It overrides the default or the CLASSPATH environment variable when it's set.

Overrides the default or the CLASSPATH environment variable when it's set.

-bootclasspath path

Overrides the location of bootstrap class files.

--multi-release version

Specifies the version to select in multi-release JAR files.

-Joption

Passes the specified option to the JVM. For example:

```
javap -J-version
```

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

See Overview of Java Options in java.

JAVAP EXAMPLE

Compile the following HelloWorldFrame class:

```
import java.awt.Graphics;
import javax.swing.JFrame;
import javax.swing.JPanel;

public class HelloWorldFrame extends JFrame {

    String message = "Hello World!";

    public HelloWorldFrame(){

        setContentPane(new JPanel(){

            @Override

            protected void paintComponent(Graphics g) {

                g.drawString(message, 15, 30);

            }

        });

        setSize(100, 100);

    }

    public static void main(String[] args) {

        HelloWorldFrame frame = new HelloWorldFrame();
```

```

        frame.setVisible(true);
    }
}

```

The output from the `javap HelloWorldFrame.class` command yields the following:

```

Compiled from "HelloWorldFrame.java"

public class HelloWorldFrame extends javax.swing.JFrame {

    java.lang.String message;

    public HelloWorldFrame();

    public static void main(java.lang.String[]);

}

```

The output from the `javap -c HelloWorldFrame.class` command yields the following:

```

Compiled from "HelloWorldFrame.java"

public class HelloWorldFrame extends javax.swing.JFrame {

    java.lang.String message;

    public HelloWorldFrame();

    Code:
        0: aload_0
        1: invokespecial #1    // Method javax/swing/JFrame."<init>":()V
        4: aload_0
        5: ldc        #2      // String Hello World!
        7: putfield   #3      // Field message:Ljava/lang/String;
       10: aload_0
       11: new        #4      // class HelloWorldFrame$1
       14: dup
       15: aload_0
       16: invokespecial #5    // Method HelloWorldFrame$1."<init>":(LHelloWorldFrame;)V
       19: invokevirtual #6    // Method setContentPane:(Ljava/awt/Container;)V
       22: aload_0
       23: bipush     100
       25: bipush     100
       27: invokevirtual #7    // Method setSize:(II)V
       30: return

    public static void main(java.lang.String[]);

```

Code:

```
0: new      #8      // class HelloWorldFrame
3: dup
4: invokespecial #9      // Method "<init>():V"
7: astore_1
8: aload_1
9: iconst_1
10: invokevirtual #10     // Method setVisible:(Z)V
13: return
}
```

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JAVAP(1)