```
L0
LINENUMBER 127 L0
LDC "eb76237d-d1c2-4220-a51c-d36ad836f4a4"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
ILOAD 4
LDC 32768
ISUB
ICONST_0
INVOKESTATIC java/lang/Math.max (II)I
ISTORE 11
L1
LINENUMBER 128 L1
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.h : Loptimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash;
ASTORE 12
L2
LINENUMBER 129 L2
ALOAD 12
ALOAD 3
ILOAD 11
ILOAD 4
ILOAD 5
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash.init ([BIII)V
L3
LINENUMBER 130 L3
ALOAD 10
ILOAD 5
ILOAD 4
ISUB
ICONST_1
IADD
INVOKESTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.fillCostMax ([JI)V
L4
LINENUMBER 131 L4
ALOAD 10
ICONST_0
LCONST_0
LASTORE
L5
LINENUMBER 132 L5
ALOAD 9
ICONST_0
ICONST_0
CASTORE
L6
LINENUMBER 133 L6
ALOAD 12
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash.same : [I
ASTORE 13
L7
LINENUMBER 135 L7
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.c259a : [C
ASTORE 14
L8
LINENUMBER 136 L8
GETSTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.charZeroes : [C
ICONST_0
ALOAD 14
ICONST_0
SIPUSH 259
INVOKESTATIC java/lang/System.arraycopy (Ljava/lang/Object;ILjava/lang/Object;II)V
L9
LINENUMBER 138 L9
ALOAD 8
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/SymbolStats.lLiterals : [J
ASTORE 15
L10
LINENUMBER 139 L10
ALOAD 8
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/SymbolStats.lLengths : [J
ASTORE 16
L11
LINENUMBER 140 L11
ALOAD 8
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/SymbolStats.dSymbols : [J
ASTORE 17
L12
LINENUMBER 141 L12
ALOAD 16
SIPUSH 258
LALOAD
ALOAD 17
ICONST_0
LALOAD
LADD
LSTORE 18
L13
LINENUMBER 143 L13
GETSTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Util.CACHED_DIST_SYMBOL : [I
ASTORE 20
L14
LINENUMBER 145 L14
ILOAD 4
ISTORE 21
L15
LINENUMBER 146 L15
ICONST_0
ISTORE 22
```

```
L42
LINENUMBER 186 L42
FRAME SAME
IINC 21 1
L49
LINENUMBER 187 L49
IINC 22 1
L50
LINENUMBER 188 L50
GOTO L16
```

```
L16
LINENUMBER 147 L16
FRAME FULL [optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie optimizer/com/googlecode/pngtastic/core/processing/zopfli/LongestMatchCache I [B I I J optimizer/com/googlecode/pngtastic/core/processing/zopfli/SymbolStats [C [J I optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash [I [C [J [J [J J [I I I] []
ILOAD 21
ILOAD 5
IF_ICMPGE L17
```

```
L18
LINENUMBER 148 L18
ALOAD 12
ALOAD 3
ILOAD 21
ILOAD 5
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash.updateHash ([BII)V
L19
LINENUMBER 150 L19
ALOAD 13
ILOAD 21
SIPUSH 32767
IAND
IALOAD
SIPUSH 516
IF_ICMPLE L20
```

```
L17
LINENUMBER 189 L17
FRAME FULL [optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie optimizer/com/googlecode/pngtastic/core/processing/zopfli/LongestMatchCache I [B I I J optimizer/com/googlecode/pngtastic/core/processing/zopfli/SymbolStats [C [J I optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash [I [C [J [J [J J [I I I] []
LDC "eb76237d-d1c2-4220-a51c-d36ad836f4a4"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
RETURN
```

```
ILOAD 21
ILOAD 4
SIPUSH 259
IADD
IF_ICMPLE L20
```

```
ILOAD 21
SIPUSH 517
IADD
ILOAD 5
IF_ICMPGE L20
```

```
ALOAD 13
ILOAD 21
SIPUSH 258
ISUB
SIPUSH 32767
IAND
IALOAD
SIPUSH 258
IF_ICMPLE L20
```

```
L21
LINENUMBER 151 L21
ICONST_0
ISTORE 23
```

```
L22
FRAME APPEND [I]
ILOAD 23
SIPUSH 258
IF_ICMPGE L20
```

```
L23
LINENUMBER 152 L23
ALOAD 10
ILOAD 22
SIPUSH 258
IADD
ALOAD 10
ILOAD 22
LALOAD
LLOAD 18
LADD
LASTORE
L24
LINENUMBER 153 L24
ALOAD 9
ILOAD 22
SIPUSH 258
IADD
SIPUSH 258
CASTORE
L25
LINENUMBER 154 L25
IINC 21 1
L26
LINENUMBER 155 L26
IINC 22 1
L27
LINENUMBER 156 L27
ALOAD 12
ALOAD 3
ILOAD 21
ILOAD 5
INVOKEVIRTUAL optimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash.updateHash ([BII)V
L28
LINENUMBER 151 L28
IINC 23 1
GOTO L22
```

```
L20
LINENUMBER 160 L20
FRAME CHOP 1
ALOAD 0
ALOAD 1
ILOAD 2
ALOAD 12
ALOAD 3
ILOAD 21
ILOAD 5
SIPUSH 258
ALOAD 14
INVOKESTATIC optimizer/com/googlecode/pngtastic/core/processing/zopfli/Deflate.findLongestMatch (Loptimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie;Loptimizer/com/googlecode/pngtastic/core/processing/zopfli/LongestMatchCache;ILoptimizer/com/googlecode/pngtastic/core/processing/zopfli/Hash;[BIII[C)V
L29
LINENUMBER 162 L29
ALOAD 10
ILOAD 22
LALOAD
LSTORE 23
L30
LINENUMBER 163 L30
ILOAD 21
ICONST_1
IADD
ILOAD 5
IF_ICMPGT L31
```

```
L32
LINENUMBER 164 L32
LLOAD 23
ALOAD 15
ALOAD 3
ILOAD 21
BALOAD
SIPUSH 255
IAND
LALOAD
LADD
LSTORE 25
L33
LINENUMBER 165 L33
LLOAD 25
ALOAD 10
ILOAD 22
ICONST_1
IADD
LALOAD
LCMP
IFGE L31
```

```
L34
LINENUMBER 166 L34
ALOAD 10
ILOAD 22
ICONST_1
IADD
LLOAD 25
LASTORE
L35
LINENUMBER 167 L35
ALOAD 9
ILOAD 22
ICONST_1
IADD
ICONST_1
CASTORE
```

```
L31
LINENUMBER 170 L31
FRAME APPEND [J]
ALOAD 0
GETFIELD optimizer/com/googlecode/pngtastic/core/processing/zopfli/Cookie.lenVal : I
ISTORE 25
L36
LINENUMBER 171 L36
LLOAD 6
LLOAD 23
LADD
LSTORE 26
L37
LINENUMBER 172 L37
ILOAD 25
ILOAD 5
ILOAD 21
ISUB
IF_ICMPLE L38
```

```
L39
LINENUMBER 173 L39
ILOAD 5
ILOAD 21
ISUB
ISTORE 25
```

```
L38
LINENUMBER 175 L38
FRAME APPEND [I J]
ILOAD 22
ICONST_3
IADD
ISTORE 28
L40
LINENUMBER 176 L40
ICONST_3
ISTORE 29
```

```
L41
FRAME APPEND [I I]
ILOAD 29
ILOAD 25
IF_ICMPGT L42
```

```
L43
LINENUMBER 177 L43
ALOAD 10
ILOAD 28
LALOAD
LLOAD 26
LCMP
IFLE L44
```

```
L45
LINENUMBER 178 L45
LLOAD 23
ALOAD 16
ILOAD 29
LALOAD
ALOAD 17
ALOAD 20
ALOAD 14
ILOAD 29
CALOAD
IALOAD
LALOAD
LADD
LADD
LSTORE 30
L46
LINENUMBER 179 L46
ALOAD 10
ILOAD 28
LALOAD
LLOAD 30
LCMP
IFLE L44
```

```
L47
LINENUMBER 180 L47
ALOAD 10
ILOAD 28
LLOAD 30
LASTORE
L48
LINENUMBER 181 L48
ALOAD 9
ILOAD 28
ILOAD 29
CASTORE
```

```
L44
LINENUMBER 176 L44
FRAME SAME
ILOAD 29
ICONST_1
IADD
I2C
ISTORE 29
IINC 28 1
GOTO L41
```