```
GETSTATIC java/lang/System.out : Ljava/io/PrintStream;
                                                                                                                                                                                                 LDC "Original'
                                                                                                                                                                                                 INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                                                                                                                                                                LINENUMBER 25 L4
                                                                                                                                                                                                 INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Sink.init ()V
                                                                                                                                                                                                 LINENUMBER 27 L5
                                                                                                                                                                                                 LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/original/kanzi/src/main/resources/rt.knz'
                                                                                                                                                                                                 ASTORE 1
                                                                                                                                                                                                 LINENUMBER 28 L6
                                                                                                                                                                                                 NEW java/io/File
                                                                                                                                                                                                  ALOAD 1
                                                                                                                                                                                                 INVOKESPECIAL java/io/File.<init> (Ljava/lang/String;)V
                                                                                                                                                                                                 ASTORE 2
                                                                                                                                                                                                 LINENUMBER 30 L7
                                                                                                                                                                                                 ALOAD 2
                                                                                                                                                                                                 INVOKEVIRTUAL java/io/File.exists ()Z
                                                                                                                                                                                                 IFEQ L8
                                                                                                                                                                                        LINENUMBER 31 L9
                                                                                                                                                                                        GETSTATIC java/lang/System.out : Ljava/io/PrintStream;
                                                                                                                                                                                        NEW java/lang/StringBuilder
                                                                                                                                                                                         DUP
                                                                                                                                                                                        INVOKESPECIAL java/lang/StringBuilder.<init> ()V LDC "Deleting "
                                                                                                                                                                                        INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
                                                                                                                                                                                         ALOAD 2
                                                                                                                                                                                        INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/Object;)Ljava/lang/StringBuilder; INVOKEVIRTUAL java/lang/StringBuilder.toString ()Ljava/lang/String; INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                                                                                                                                                         L10
                                                                                                                                                                                         LINENUMBER 32 L10
                                                                                                                                                                                         ALOAD 2
                                                                                                                                                                                         INVOKESTATIC org/apache/commons/io/FileUtils.forceDelete (Ljava/io/File;)V
                                                                                                                                                                                                                      LINENUMBER 35 L8
                                                                                                                                                                                                                      FRAME APPEND [java/lang/String java/io/File]
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST 0
                                                                                                                                                                                                                       AALOAD
                                                                                                                                                                                                                       INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean;
                                                                                                                                                                                                                      INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionVERBOSE (Z)Z PUTSTATIC kanzi/Run.VERBOSE : Z
                                                                                                                                                                                                                      LINENUMBER 36 L11
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST_1
                                                                                                                                                                                                                       AALOA\overline{D}
                                                                                                                                                                                                                      INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionFORCE (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.FORCE : Z
                                                                                                                                                                                                                       L12
                                                                                                                                                                                                                      LINENUMBER 37 L12
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST 2
                                                                                                                                                                                                                       AALOAD
                                                                                                                                                                                                                      INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionBLOCKSIZE (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.BLOCKSIZE : Z
                                                                                                                                                                                                                      LINENUMBER 38 L13
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST_3
                                                                                                                                                                                                                       AALOAD
                                                                                                                                                                                                                       INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionLEVEL (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.LEVEL : Z
                                                                                                                                                                                                                       L14
                                                                                                                                                                                                                      LINENUMBER 39 L14
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST 4
                                                                                                                                                                                                                       AALOA\overline{D}
                                                                                                                                                                                                                       INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionENTROPY (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.ENTROPY : Z
                                                                                                                                                                                                                       L15
                                                                                                                                                                                                                      LINENUMBER 40 L15
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       ICONST 5
                                                                                                                                                                                                                       AALOA\overline{D}
                                                                                                                                                                                                                      INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionTRANSFORM (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.TRANSFORM : Z
                                                                                                                                                                                                                      LINENUMBER 41 L16
                                                                                                                                                                                                                       ALOAD 0
                                                                                                                                                                                                                       BIPUSH 6
                                                                                                                                                                                                                       AALOAD
                                                                                                                                                                                                                       INVOKESTATIC java/lang/Boolean.valueOf (Ljava/lang/String;)Ljava/lang/Boolean; INVOKEVIRTUAL java/lang/Boolean.booleanValue ()Z
                                                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Source.getOptionCHECKSUM (Z)Z
                                                                                                                                                                                                                       PUTSTATIC kanzi/Run.CHECKSUM : Z
                                                                                                                                                                                                                       L17
                                                                                                                                                                                                                      LINENUMBER 51 L17
                                                                                                                                                                                                                      ICONST_0
                                                                                                                                                                                                                       ISTORE 3
                                                                                                                                                                                                                      LINENUMBER 52 L18
                                                                                                                                                                                                                      GETSTATIC kanzi/Run.FORCE : Z
                                                                                                                                                                                                                       ISTORE 4
                                                                                                                                                                                                                       L19
                                                                                                                                                                                                                      LINENUMBER 53 L19
LDC 1048576
                                                                                                                                                                                                                      ISTORE 5
                                                                                                                                                                                                                       L20
                                                                                                                                                                                                                       LINENUMBER 54 L20
                                                                                                                                                                                                                       ICONST_1
                                                                                                                                                                                                                       ISTORE 6
                                                                                                                                                                                                                       L21
                                                                                                                                                                                                                      LINENUMBER 55 L21
                                                                                                                                                                                                                       LDC "Huffman"
                                                                                                                                                                                                                       ASTORE 7
                                                                                                                                                                                                                      LINENUMBER 56 L22
LDC "BWT+MTFT+ZRLT"
                                                                                                                                                                                                                       ASTORE 8
                                                                                                                                                                                                                       L23
                                                                                                                                                                                                                      LINENUMBER 57 L23
                                                                                                                                                                                                                       GETSTATIC kanzi/Run.CHECKSUM: Z
                                                                                                                                                                                                                       ISTORE 9
                                                                                                                                                                                                                       L24
                                                                                                                                                                                                                       LINENUMBER 59 L24
                                                                                                                                                                                                                       GETSTATIC kanzi/Run.VERBOSE : Z
                                                                                                                                                                                                                       IFEQ L25
                                                                                                                                                                                                                                                                   L26
                                                                                                                                                                                                                                                                   LINENUMBER 60 L26
ICONST_4
                                                                                                                                                                                                                                                                   ISTORE 3
                                                                                                                                                                                                                LINENUMBER 67 L25
                                                                                                                                                                                                               FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I I I I java/lang/String java/lang/String I] [] LDC "95c97c55-cfe7-40a6-bb9c-f22fb147e646" INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "fee1f6df-8d95-4723-b8b9-9dcc6ed53b86"
                                                                                                                                                                                                                INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                                                GETSTATIC kanzi/Run.BLOCKSIZE : Z
                                                                                                                                                                                                                IFEQ L27
                                                                                                                                                                                                                                                 LINENUMBER 68 L28
                                                                                                                                                                                                                                                 LDC 1073741824
                                                                                                                                                                                                                                                 ISTORE 5
                                                                                                                                                                                                                     LINENUMBER 71 L27
                                                                                                                                                                                                                     FRAME SAME
                                                                                                                                                                                                                     LDC "fee1f6df-8d95-4723-b8b9-9dcc6ed53b86"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                                                                                                                     LDC "e784a754-e7de-49df-af8d-7459eb0893e8"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                                                     GETSTATIC kanzi/Run.LEVEL : Z
                                                                                                                                                                                                                     IFEQ L29
                                                                                                                                                                                                                                                                    L30
                                                                                                                                                                                                                                                                   LINENUMBER 72 L30
                                                                                                                                                                                                                                                                   ICONST_5
                                                                                                                                                                                                                                                                   ISTORE 6
                                                                                                                                                                                                                     L29
LINENUMBER 75 L29
                                                                                                                                                                                                                     FRAME SAME
                                                                                                                                                                                                                     LDC "e784a754-e7de-49df-af8d-7459eb0893e8"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "3ed97e75-3c2d-4514-9886-dfa4ce474497"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                                                     GETSTATIC kanzi/Run.ENTROPY : Z
                                                                                                                                                                                                                     IFEQ L31
                                                                                                                                                                                                                                                                   L32
                                                                                                                                                                                                                                                                   LINENUMBER 76 L32
LDC "PAQ"
                                                                                                                                                                                                                                                                   ASTORE 7
                                                                                                                                                                                                                     LINENUMBER 79 L31
                                                                                                                                                                                                                     FRAME SAME
                                                                                                                                                                                                                     LDC "3ed97e75-3c2d-4514-9886-dfa4ce474497"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                                                                                                                     LDC "eb16e9b5-0153-44bc-ab20-e8a081adc204"
                                                                                                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC kanzi/Run.TRANSFORM : Z
                                                                                                                                                                                                                     IFEQ L33
                                                                                                                                                                                                                                                                   L34
                                                                                                                                                                                                                                                                   LINENUMBER 80 L34
                                                                                                                                                                                                                                                                   LDC "LZ4"
                                                                                                                                                                                                                                                                   ASTORE 8
                                                                                                                                                                                       LINENUMBER 87 L33
                                                                                                                                                                                       FRAME SAME
                                                                                                                                                                                       LDC "eb16e9b5-0153-44bc-ab20-e8a081adc204"
                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                                                                                       LDC "06d6c094-11a3-45a6-a25f-e1f2f7b09023"
                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                       NEW java/util/HashMap
                                                                                                                                                                                       INVOKESPECIAL java/util/HashMap.<init> ()V
                                                                                                                                                                                       ASTORE 10
                                                                                                                                                                                        L35
                                                                                                                                                                                        LINENUMBER 88 L35
                                                                                                                                                                                        ALOAD 10
                                                                                                                                                                                       LDC "inputName"
LINENUMBER 95 L2
                                                                                                                                                                                        LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/original/kanzi/src/main/resources/rt.jar'
FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I I I I java/lang/String java/lang/String I java/util/HashMap kanzi/app/BlockCompressor] [java/lang/Exception]
                                                                                                                                                                                       INVOKEINTERFACE java/util/Map.put (Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
ASTORE 12
                                                                                                                                                                                       POP
L36
L39
LINENUMBER 96 L39
GETSTATIC java/lang/System.err : Ljava/io/PrintStream;
NEW java/lang/StringBuilder
                                                                                                                                                                                       LINENUMBER 89 L36
                                                                                                                                                                                       ALOAD 10
                                                                                                                                                                                       LDC "outputName"
                                                                                                                                                                                       LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/original/kanzi/src/main/resources/rt.knz" INVOKEINTERFACE java/util/Map.put (Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
INVOKESPECIAL java/lang/StringBuilder.<init> ()V LDC "Could not create the compressor: "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder; ALOAD 12
                                                                                                                                                                                       L37
                                                                                                                                                                                       LINENUMBER 91 L37
INVOKEVIRTUAL java/lang/Exception.getMessage ()Ljava/lang/String; INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder; INVOKEVIRTUAL java/lang/StringBuilder.toString ()Ljava/lang/String;
                                                                                                                                                                                       ACONST_NULL
                                                                                                                                                                                       ASTORE 11
INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                                                                                                                                                       LINENUMBER 94 L0
L40
                                                                                                                                                                                       NEW kanzi/app/BlockCompressor
LINENUMBER 97 L40
                                                                                                                                                                                       DUP
BIPUSH -4
                                                                                                                                                                                       ILOAD 3
INVOKESTATIC java/lang/System.exit (I)V
                                                                                                                                                                                       ILOAD 4
                                                                                                                                                                                       ILOAD 5
                                                                                                                                                                                       ILOAD 6
                                                                                                                                                                                       ALOAD 7
                                                                                                                                                                                        ALOAD 8
                                                                                                                                                                                       ILOAD 9
                                                                                                                                                                                        ICONST_1
                                                                                                                                                                                        ALOAD\overline{10}
                                                                                                                                                                                        ACONST_NULL
                                                                                                                                                                                       INVOKESPECIAL kanzi/app/BlockCompressor.<init> (IZIILjava/lang/String;Ljava/lang/String;ZILjava/util/Map;Ljava/util/Concurrent/ExecutorService;)V
                                                                                                                                                                                       ASTORE 11
                                                                                                                                                                                       LINENUMBER 98 L1
                                                                                                                                                                                       GOTO L38
                                                                                                                                         LINENUMBER 100 L38
                                                                                                                                         FRAME SAME
                                                                                                                                         ALOAD 11
                                                                                                                                         INVOKEVIRTUAL kanzi/app/BlockCompressor.call ()Ljava/lang/Integer; INVOKEVIRTUAL java/lang/Integer.intValue ()I
                                                                                                                                         ISTORE 12
                                                                                                                                          L41
                                                                                                                                         LINENUMBER 102 L41
                                                                                                                                          ILOAD 12
                                                                                                                                         IFEQ L42
                                                                                                                                                                   LINENUMBER 103 L43
                                                                                                                                                                    ALOAD 11
                                                                                                                                                                   INVOKEVIRTUAL kanzi/app/BlockCompressor.dispose ()V
                                                                                                                               LINENUMBER 107 L42
                                                                                                                               FRAME APPEND [I]
                                                                                                                               LDC "06d6c094-11a3-45a6-a25f-e1f2f7b09023"
                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                               RETURN
```

entry

TRYCATCHBLOCK L0 L1 L2 java/lang/Exception

INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V

LDC "95c97c55-cfe7-40a6-bb9c-f22fb147e646"

LINENUMBER 24 L3