```
LINENUMBER 25 L3
                                                                                                                                                                                                       LDC "1fa700a6-8712-4bfa-98fd-eec3d90264ec"
                                                                                                                                                                                                      INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC java/lang/System.out : Ljava/io/PrintStream;
                                                                                                                                                                                                       LDC "Instrument"
                                                                                                                                                                                                       INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                                                                                                                                                                      LINENUMBER 26 L4
                                                                                                                                                                                                       INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Sink.init ()V
                                                                                                                                                                                                      LINENUMBER 28 L5
                                                                                                                                                                                                       LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/instrumented/kanzi/src/main/resources/rt.knz"
                                                                                                                                                                                                      LINENUMBER 29 L6
                                                                                                                                                                                                       NEW java/io/File
                                                                                                                                                                                                       DUP
                                                                                                                                                                                                       ALOAD 1
                                                                                                                                                                                                      INVOKESPECIAL java/io/File.<init> (Ljava/lang/String;)V
                                                                                                                                                                                                       ASTORE 2
                                                                                                                                                                                                       LINENUMBER 31 L7
                                                                                                                                                                                                       ALOAD 2
                                                                                                                                                                                                      INVOKEVIRTUAL java/io/File.exists ()Z
                                                                                                                                                                                                      IFEQ L8
                                                                                                                                                                                                                                                                LINENUMBER 32 L9
                                                                                                                                                                                                                                                                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
                                                                                                                                                                                                                                 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.getOptionVERBOSE (Z)Z
                                                                                                                                                                                                                                PUTSTATIC kanzi/Run.VERBOSE : Z
                                                                                                                                                                                                                                L10
                                                                                                                                                                                                                                LINENUMBER 36 L10
                                                                                                                                                                                                                                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
                                                                                                                                                                                                                                LINENUMBER 37 L11
                                                                                                                                                                                                                                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 L12
                                                                                                                                                                                                                                ALOAD 0
                                                                                                                                                                                                                                ICONST_3
                                                                                                                                                                                                                                 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.getOptionLEVEL (Z)Z
                                                                                                                                                                                                                                PUTSTATIC kanzi/Run.LEVEL : Z
                                                                                                                                                                                                                                L13
                                                                                                                                                                                                                                LINENUMBER 39 L13
                                                                                                                                                                                                                                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
                                                                                                                                                                                                                                 L14
                                                                                                                                                                                                                                LINENUMBER 40 L14
                                                                                                                                                                                                                                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
                                                                                                                                                                                                                                 L15
                                                                                                                                                                                                                                LINENUMBER 41 L15
                                                                                                                                                                                                                                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
                                                                                                                                                                                                                                L16
                                                                                                                                                                                                                                LINENUMBER 51 L16
                                                                                                                                                                                                                                ICONST_0
                                                                                                                                                                                                                                ISTORE 3
                                                                                                                                                                                                                                 L17
                                                                                                                                                                                                                                LINENUMBER 52 L17
                                                                                                                                                                                                                                 ICONST_0
                                                                                                                                                                                                                                ISTORE 4
                                                                                                                                                                                                                                L18
                                                                                                                                                                                                                                LINENUMBER 53 L18
                                                                                                                                                                                                                                LDC 1048576
                                                                                                                                                                                                                                ISTORE 5
                                                                                                                                                                                                                                L19
                                                                                                                                                                                                                                LINENUMBER 54 L19
                                                                                                                                                                                                                                ICONST_0
                                                                                                                                                                                                                                ISTORE 6
                                                                                                                                                                                                                                 L20
                                                                                                                                                                                                                                LINENUMBER 55 L20
                                                                                                                                                                                                                                LDC "Huffman"
                                                                                                                                                                                                                                ASTORE 7
                                                                                                                                                                                                                                L21
                                                                                                                                                                                                                                LINENUMBER 56 L21
LDC "BWT+MTFT+ZRLT"
                                                                                                                                                                                                                                ASTORE 8
                                                                                                                                                                                                                                L22
                                                                                                                                                                                                                                LINENUMBER 57 L22
                                                                                                                                                                                                                                ICONST_0
                                                                                                                                                                                                                                 ISTORE 9
                                                                                                                                                                                                                                 L23
                                                                                                                                                                                                                                LINENUMBER 59 L23
                                                                                                                                                                                                                                 GETSTATIC kanzi/Run.VERBOSE : Z
                                                                                                                                                                                                                                IFEQ L24
                                                                                                                                                                                                                                                           LINENUMBER 60 L25
                                                                                                                                                                                                                                                           ICONST_4
                                                                                                                                                                                                                                                           ISTORE 3
                                                                                                                                                                                                                         LINENUMBER 63 L24
                                                                                                                                                                                                                         FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I I I I java/lang/String java/lang/String I] [] LDC "05bc8827-917e-4a6e-8eab-2ff041a53b7f"
                                                                                                                                                                                                                         INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                                                         GETSTATIC kanzi/Run.FORCE : Z
                                                                                                                                                                                                                         IFEQ L26
                                                                                                                                                                                                                                                                              LINENUMBER 64 L27
                                                                                                                                                                                                                                                                               ICONST_1
                                                                                                                                                                                                                                                                              ISTORE 4
                                                                                                                                                                                                                              L26
LINENUMBER 67 L26
                                                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                                                               LDC "05bc8827-917e-4a6e-8eab-2ff041a53b7f"
                                                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "985c2b28-bc5d-4d9a-95a5-db9ddee4c46d"
                                                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                                                                                                                                                                                                               GETSTATIC kanzi/Run.BLOCKSIZE : Z
                                                                                                                                                                                                                               IFEQ L28
                                                                                                                                                                                                                                                           LINENUMBER 68 L29
LDC 1073741824
                                                                                                                                                                                                                                                           ISTORE 5
                                                                                                                                                                                                                               LINENUMBER 71 L28
                                                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                                                               LDC "985c2b28-bc5d-4d9a-95a5-db9ddee4c46d"
                                                                                                                                                                                                                              INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "ce6573cd-8463-4568-9bd0-d718a063ea19" INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC kanzi/Run.LEVEL : Z
                                                                                                                                                                                                                               IFEQ L30
                                                                                                                                                                                                                                                           LINENUMBER 72 L31
ICONST_5
ISTORE 6
                                                                                                                                                                                                                               LINENUMBER 75 L30
                                                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                                                               LDC "ce6573cd-8463-4568-9bd0-d718a063ea19"
                                                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "54a6e345-5690-4ae8-8907-d83ba638b05e"
                                                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC kanzi/Run.ENTROPY : Z
                                                                                                                                                                                                                               IFEQ L32
                                                                                                                                                                                                                                                           LINENUMBER 76 L33
                                                                                                                                                                                                                                                           LDC "PAQ"
ASTORE 7
                                                                                                                                                                                                                              L32
LINENUMBER 79 L32
                                                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                                                              LDC "54a6e345-5690-4ae8-8907-d83ba638b05e"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
LDC "b85ed427-b5e1-443f-99dd-82926e080c32"
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
GETSTATIC kanzi/Run.TRANSFORM : Z
                                                                                                                                                                                                                               IFEQ L34
                                                                                                                                                                                                                                                                               L35
                                                                                                                                                                                                                                                                              LINENUMBER 80 L35
LDC "LZ4"
                                                                                                                                                                                                                                                                              ASTORE 8
                                                                                                                                                                                                                              LINENUMBER 83 L34
                                                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                                                               LDC "b85ed427-b5e1-443f-99dd-82926e080c32"
                                                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "8c61abb7-27b9-42ea-aaea-1a58c034e322"
                                                                                                                                                                                                                              INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC kanzi/Run.CHECKSUM : Z
                                                                                                                                                                                                                               IFEQ L36
                                                                                                                                                                                                                                                           LINENUMBER 84 L37
                                                                                                                                                                                                                                                           ICONST_1
                                                                                                                                                                                                                                                           ISTORE 9
                                                                                                                                                                                               LINENUMBER 87 L36
                                                                                                                                                                                               FRAME SAME
                                                                                                                                                                                               LDC "8c61abb7-27b9-42ea-aaea-1a58c034e322"
                                                                                                                                                                                               INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                                                                                               LDC "f99ce991-24a0-486a-9dad-e27af85d415b"
                                                                                                                                                                                               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
                                                                                                                                                                                                L38
                                                                                                                                                                                                LINENUMBER 88 L38
                                                                                                                                                                                                 ALOAD 10
                                                                                                                                                                                                LDC "inputName"
LINENUMBER 95 L2
                                                                                                                                                                                               LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/instrumented/kanzi/src/main/resources/rt.jar" INVOKEINTERFACE java/util/Map.put (Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
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]
ASTORE 12
                                                                                                                                                                                               L39
LINENUMBER 96 L42
                                                                                                                                                                                               LINENUMBER 89 L39
GETSTATIC java/lang/System.err : Ljava/io/PrintStream; NEW java/lang/StringBuilder
                                                                                                                                                                                                ALOAD 10
                                                                                                                                                                                               LDC "outputName"
                                                                                                                                                                                               LDC "/Users/mvelezce/Documents/Programming/Java/Projects/performance-mapper-evaluation/instrumented/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;
                                                                                                                                                                                               L40
ALOAD 12
                                                                                                                                                                                               LINENUMBER 91 L40
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
                                                                                                                                                                                               NEW kanzi/app/BlockCompressor
LINENUMBER 97 L43
                                                                                                                                                                                               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 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 L41
                                                                                                                                                LINENUMBER 100 L41
                                                                                                                                                FRAME SAME
                                                                                                                                                INVOKEVIRTUAL kanzi/app/BlockCompressor.call ()Ljava/lang/Integer; INVOKEVIRTUAL java/lang/Integer.intValue ()I
                                                                                                                                                ISTORE 12
                                                                                                                                                L44
                                                                                                                                                LINENUMBER 102 L44
ILOAD 12
                                                                                                                                                IFEQ L45
                                                                                                                                   L46
                                                                                                                                   LINENUMBER 103 L46
                                                                                                                                   ALOAD 11
                                                                                                                                   INVOKEVIRTUAL kanzi/app/BlockCompressor.dispose ()V
                                                                                                                                     LINENUMBER 107 L45
                                                                                                                                     FRAME APPEND [I]
LDC "f99ce991-24a0-486a-9dad-e27af85d415b"
                                                                                                                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V LDC "1fa700a6-8712-4bfa-98fd-eec3d90264ec"
                                                                                                                                     INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                                                                                                                    RETURN
```

exit

L42

DUP

entry

TRYCATCHBLOCK L0 L1 L2 java/lang/Exception