```
L0
                                                LINENUMBER 28 L0
                                                GETSTATIC java/lang/System.out : Ljava/io/PrintStream;
                                                LDC "Original"
                                                INVOKEVIRTUAL java/io/PrintStream.println (Ljava/lang/String;)V
                                                LINENUMBER 29 L1
                                                INVOKESTATIC edu/cmu/cs/mvelezce/analysis/option/Sink.init ()V
                                                LINENUMBER 31 L2
                                                LDC "prime"
                                                ASTORE 1
                                                L3
                                                LINENUMBER 32 L3
                                                NEW java/io/File
                                                DUP
                                                ALOAD 1
                                                INVOKESPECIAL java/io/File.<init> (Ljava/lang/String;)V
                                                ASTORE 2
                                                L4
                                                LINENUMBER 34 L4
                                                ALOAD 2
                                                INVOKEVIRTUAL java/io/File.exists ()Z
                                                IFEQ L5
                                                               LINENUMBER 35 L6
                                                               ALOAD 2
                                                               INVOKESTATIC org/apache/commons/io/FileUtils.forceDelete (Ljava/io/File;)V
                                 LINENUMBER 38 L5
                                 FRAME APPEND [java/lang/String java/io/File]
                                 LDC "14568a07-31ce-4aa0-a470-7628665071eb"
                                 INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                 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.getOptionTRANSIENTMODE (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.TRANSIENTMODE: Z
                                 LINENUMBER 39 L7
                                 ALOAD 0
                                 ICONST_1
                                 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.getOptionCLOCK (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.CLOCK: Z
                                 LINENUMBER 40 L8
                                 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.getOptionDEEPCOPY (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.DEEPCOPY: Z
                                 LINENUMBER 41 L9
                                 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.getOptionDISKSYNC (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.DISKSYNC: Z
                                 L10
                                 LINENUMBER 42 L10
                                 ALOAD 0
                                 ICONST_4
                                 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.getOptionFILESIZETHRESHOLD (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILESIZETHRESHOLD: Z
                                 L11
                                 LINENUMBER 43 L11
                                 ALOAD 0
                                 ICONST_5
                                 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.getOptionFILEAGETHRESHOLD (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILEAGETHRESHOLD: Z
                                 L12
                                 LINENUMBER 44 L12
                                 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.getOptionMONITOR (Z)Z
                                 PUTSTATIC org/prevayler/demos/demo1/PrimeNumbers.MONITOR: Z
                                 L13
                                 LINENUMBER 54 L13
                                 ICONST_0
                                 ISTORE 3
                                 L14
                                 LINENUMBER 56 L14
                                 ICONST_0
                                 ISTORE 5
                                 L15
                                 LINENUMBER 57 L15
                                 ICONST 0
                                 ISTORE 6
                                 L16
                                 LINENUMBER 58 L16
                                 ICONST_0
                                 ISTORE 7
                                 L17
                                 LINENUMBER 59 L17
                                 ICONST_0
                                 ISTORE 8
                                 L18
                                 LINENUMBER 62 L18
                                 GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.TRANSIENTMODE: Z
                                 IFEQ L19
                                                            L20
                                                            LINENUMBER 63 L20
                                                            ICONST_1
                                                           ISTORE 3
                                    LINENUMBER 66 L19
                                    FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I T I I I I ] [] LDC "14568a07-31ce-4aa0-a470-7628665071eb"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "ec6ec314-2ef7-4b94-ba3a-6818decef789"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                    GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.CLOCK: Z
                                    IFEO L21
                                                                            L22
                                                                            LINENUMBER 67 L22
                                                                            NEW org/prevayler/implementation/clock/PausableClock
L21
LINENUMBER 70 L21
                                                                            DUP
                                                                            NEW org/prevayler/implementation/clock/MachineClock
FRAME SAME
NEW org/prevayler/implementation/clock/MachineClock
                                                                            INVOKESPECIAL org/prevayler/implementation/clock/MachineClock.<init> ()V
INVOKESPECIAL org/prevayler/implementation/clock/MachineClock.<init> ()V
                                                                            INVOKESPECIAL org/prevayler/implementation/clock/PausableClock.<init> (Lorg/prevayler/Clock;)V
ASTORE 4
                                                                            ASTORE 4
                                                                            L23
                                                                            GOTO L24
                                    LINENUMBER 73 L24
                                    FRAME FULL [[Ljava/lang/String; java/lang/String java/io/File I java/lang/Object I I I I ] []
                                    LDC "ec6ec314-2ef7-4b94-ba3a-6818decef789"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "798f103e-0b64-450e-b462-3b83cee1c0d1"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                    GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.DEEPCOPY: Z
                                    IFEQ L25
                                                                            L26
                                                                            LINENUMBER 74 L26
                                                                            ICONST_1
                                                                            ISTORE 5
                                    LINENUMBER 77 L25
                                    FRAME SAME
                                    LDC "798f103e-0b64-450e-b462-3b83cee1c0d1"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "3d427f3f-e374-4da4-8d3d-c88b1e5ea29d"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.DISKSYNC : Z
                                    IFEQ L27
                                                                            L28
                                                                           LINENUMBER 78 L28
                                                                            ICONST_1
                                                                            ISTORE 6
                                    LINENUMBER 81 L27
                                    FRAME SAME
                                    LDC "3d427f3f-e374-4da4-8d3d-c88b1e5ea29d"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "a73addc8-1a42-456c-bc85-cf70c54cbe85"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                    GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILESIZETHRESHOLD : Z
                                    IFEQ L29
                                                                            L30
                                                                           LINENUMBER 82 L30
                                                                           LDC 1000000
                                                                           ISTORE 7
                                    LINENUMBER 85 L29
                                    FRAME SAME
                                    LDC "a73addc8-1a42-456c-bc85-cf70c54cbe85"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "4ce3e7b8-6eaf-40d2-980d-71e0156658e5"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.FILEAGETHRESHOLD: Z
                                    IFEQ L31
                                                            LINENUMBER 86 L32
                                                            LDC 1000000
                                                            ISTORE 8
                                    LINENUMBER 89 L31
                                    FRAME SAME
                                    LDC "4ce3e7b8-6eaf-40d2-980d-71e0156658e5"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                                    LDC "ab5947f0-a9b7-4a52-8985-f9f1e14ad6a5"
                                    INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.enter (Ljava/lang/String;)V
                                    GETSTATIC org/prevayler/demos/demo1/PrimeNumbers.MONITOR: Z
                                    IFEQ L33
                                                                                 L34
      L33
                                                                                 LINENUMBER 90 L34
      LINENUMBER 93 L33
                                                                                 NEW org/prevayler/foundation/monitor/Log4jMonitor
      FRAME SAME
      NEW org/prevayler/foundation/monitor/SimpleMonitor
                                                                                 INVOKESPECIAL org/prevayler/foundation/monitor/Log4jMonitor.<init>()V
                                                                                 ASTORE 9
      INVOKESPECIAL org/prevayler/foundation/monitor/SimpleMonitor.<init>()V
                                                                                 L35
      ASTORE 9
                                                                                 GOTO L36
                           L36
                           LINENUMBER 96 L36
                           FRAME APPEND [org/prevayler/foundation/monitor/LoggingMonitor]
                           LDC "ab5947f0-a9b7-4a52-8985-f9f1e14ad6a5"
                           INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/region/Regions.exit (Ljava/lang/String;)V
                           NEW org/prevayler/PrevaylerFactory
                           INVOKESPECIAL org/prevayler/PrevaylerFactory.<init> ()V
                           ASTORE 10
                           L37
                           LINENUMBER 97 L37
                           ALOAD 10
                           NEW org/prevayler/demos/demo1/NumberKeeper
                           INVOKESPECIAL org/prevayler/demos/demo1/NumberKeeper.<init>()V
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configurePrevalentSystem (Ljava/lang/Object;)V
                           LINENUMBER 98 L38
                           ALOAD 10
                           ALOAD 1
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configurePrevalenceDirectory (Ljava/lang/String;)V
                           LINENUMBER 100 L39
                           ALOAD 10
                           ILOAD 3
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureTransientMode (Z)V
                           LINENUMBER 101 L40
                           ALOAD 10
                           ALOAD 4
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureClock (Lorg/prevayler/Clock;)V
                           LINENUMBER 102 L41
                           ALOAD 10
                           ILOAD 5
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureTransactionDeepCopy (Z)V
                           LINENUMBER 103 L42
                           ALOAD 10
                           ILOAD 6
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalDiskSync (Z)V
                           L43
                           LINENUMBER 104 L43
                           ALOAD 10
                           ILOAD 7
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalFileSizeThreshold (J)V
                           LINENUMBER 105 L44
                           ALOAD 10
                           ILOAD 8
                           I2L
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureJournalFileAgeThreshold (J)V
                           LINENUMBER 106 L45
                           ALOAD 10
                           ALOAD 9
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.configureMonitor (Lorg/prevayler/foundation/monitor/Monitor;)V
                           LINENUMBER 108 L46
                           ALOAD 10
                           INVOKEVIRTUAL org/prevayler/PrevaylerFactory.create ()Lorg/prevayler/Prevayler;
                           ASTORE 11
                           L47
                           LINENUMBER 109 L47
                           NEW org/prevayler/demos/demo1/PrimeCalculator
                           DUP
                           ALOAD 11
                           INVOKESPECIAL org/prevayler/demos/demo1/PrimeCalculator.<init> (Lorg/prevayler/Prevayler;)V
```

entry

exit

INVOKEVIRTUAL org/prevayler/demos/demo1/PrimeCalculator.start ()V

LINENUMBER 110 L48

RETURN

L49