```
entry
```

```
L0
LINENUMBER 37 L0
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransactionInitialized : Z
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 0
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.enterDecision (Ljava/lang/String;I)V
DUP
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.logIFNEEval (I)V
IFNE L1
```

```
L1
LINENUMBER 42 L1
FRAME SAME
LLOAD 2
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
LCMP
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 1
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.enterDecision (Ljava/lang/String;I)V
DUP
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.logIFGEEval (I)V
IFGE L5
```

```
L5
FRAME SAME
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 1
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitDecision (Ljava/lang/String;I)V
L7
LINENUMBER 50 L7
LLOAD 2
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
LSUB
L2I
ISTORE 4
L8
LINENUMBER 51 L8
ILOAD 4
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal.journal : Ljava/util/List;
INVOKEINTERFACE java/util/List.size ()I
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 2
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.enterDecision (Ljava/lang/String;I)V
DUP2
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.logIF_ICMPLEEval (II)V
IF_ICMPLE L9
```

```
L6
LINENUMBER 43 L6
NEW java/io/IOException
DUP
NEW java/lang/StringBuilder
DUP
INVOKESPECIAL java/lang/StringBuilder.<init> ()V
LDC "Unable to recover transaction "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
LLOAD 2
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
LDC ". The oldest recoverable transaction is "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
LDC "."
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
INVOKEVIRTUAL java/lang/StringBuilder.toString ()Ljava/lang/String;
INVOKESPECIAL java/io/IOException.<init> (Ljava/lang/String;)V
ATHROW
```

```
L10
LINENUMBER 52 L10
NEW java/io/IOException
DUP
NEW java/lang/StringBuilder
DUP
INVOKESPECIAL java/lang/StringBuilder.<init> ()V
LDC "The transaction journal has not yet reached transaction "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
LLOAD 2
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
LDC ". The last logged transaction was "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal.journal : Ljava/util/List;
L11
LINENUMBER 56 L11
INVOKEINTERFACE java/util/List.size ()I
I2L
LADD
LCONST_1
LSUB
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
LDC "."
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
INVOKEVIRTUAL java/lang/StringBuilder.toString ()Ljava/lang/String;
INVOKESPECIAL java/io/IOException.<init> (Ljava/lang/String;)V
ATHROW
```

```
L9
FRAME APPEND [I]
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 2
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitDecision (Ljava/lang/String;I)V
```

```
L2
LINENUMBER 38 L2
ALOAD 0
ICONST_1
PUTFIELD org/prevayler/implementation/journal/TransientJournal._initialTransactionInitialized : Z
L3
LINENUMBER 39 L3
ALOAD 0
LLOAD 2
PUTFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
L4
LINENUMBER 40 L4
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitAtReturn ()V
RETURN
```

```
L12
LINENUMBER 59 L12
FRAME SAME
ILOAD 4
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal.journal : Ljava/util/List;
INVOKEINTERFACE java/util/List.size ()I
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 3
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.enterDecision (Ljava/lang/String;I)V
DUP2
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.logIF_ICMPEQEval (II)V
IF_ICMPEQ L13
```

```
L13
FRAME CHOP 2
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 3
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitDecision (Ljava/lang/String;I)V
L23
LINENUMBER 69 L23
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitAtReturn ()V
RETURN
L24
```

```
L14
LINENUMBER 60 L14
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal.journal : Ljava/util/List;
ILOAD 4
INVOKEINTERFACE java/util/List.get (I)Ljava/lang/Object;
CHECKCAST org/prevayler/implementation/TransactionTimestamp
ASTORE 5
L15
LINENUMBER 61 L15
ALOAD 0
GETFIELD org/prevayler/implementation/journal/TransientJournal._initialTransaction : J
ILOAD 4
I2L
LADD
LSTORE 6
L16
LINENUMBER 62 L16
ALOAD 5
INVOKEVIRTUAL org/prevayler/implementation/TransactionTimestamp.systemVersion ()J
LLOAD 6
LCMP
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 4
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.enterDecision (Ljava/lang/String;I)V
DUP
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.logIFEQEval (I)V
IFEQ L17
```

```
L17
FRAME APPEND [org/prevayler/implementation/TransactionTimestamp J]
LDC "org/prevayler/implementation/journal/TransientJournal.update(Lorg/prevayler/implementation/publishing/TransactionSubscriber;J)V"
BIPUSH 4
INVOKESTATIC edu/cmu/cs/mvelezce/tool/analysis/taint/java/groundtruth/SubtracesLogger.exitDecision (Ljava/lang/String;I)V
L20
LINENUMBER 66 L20
ALOAD 1
ALOAD 5
INVOKEINTERFACE org/prevayler/implementation/publishing/TransactionSubscriber.receive (Lorg/prevayler/implementation/TransactionTimestamp;)V
L21
LINENUMBER 67 L21
IINC 4 1
L22
LINENUMBER 68 L22
GOTO L12
```

```
L18
LINENUMBER 63 L18
NEW java/io/IOException
DUP
NEW java/lang/StringBuilder
DUP
INVOKESPECIAL java/lang/StringBuilder.<init> ()V
LDC "Expected "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
LLOAD 6
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
LDC " but was "
INVOKEVIRTUAL java/lang/StringBuilder.append (Ljava/lang/String;)Ljava/lang/StringBuilder;
ALOAD 5
L19
LINENUMBER 64 L19
INVOKEVIRTUAL org/prevayler/implementation/TransactionTimestamp.systemVersion ()J
INVOKEVIRTUAL java/lang/StringBuilder.append (J)Ljava/lang/StringBuilder;
INVOKEVIRTUAL java/lang/StringBuilder.toString ()Ljava/lang/String;
INVOKESPECIAL java/io/IOException.<init> (Ljava/lang/String;)V
ATHROW
```

```
exit
```