```
 1: // $Id: manythreads.java,v 1.6 2018-05-17 16:21:50-07 - - $
 2:
 3: // Create many threads which loop for a while.
 4:
 5: import static java.lang.System.*;
 6:
 7: class manythreads {
 8:    static final long CYCLES = 1L<<20;
 9:
10:    static void print (String status, long result) {
11:       Thread self = Thread.currentThread();
12:       out.printf ("(%2d)%-8s: %s, result = %d%n",
13:                   self.getId(), self.getName(), status, result);
14:    }
15:
16:    static class printmsg implements Runnable {
17:       String threadname;
18:       long loops;
19:       long result = 0;
20:       printmsg (String threadname_, long loops_) {
21:          threadname = threadname_;
22:          loops = loops_;
23:       }
24:       public void run() {
25:          Thread self = Thread.currentThread();
26:          self.setName (threadname);
27:          print ("starting", result);
28:          for (long count = 0; count < loops; ++count) {
29:             ++result;
30:          }
31:          print ("finished", result);
32:       }
33:    }
34:
35:    static String[] names = {"Hello", "World", "Foo", "Bar", "Baz",
36:                             "Penguin", "Dæmon", "Racoon"};
37:
38:    public static void main (String[] args) {
39:       Thread self = Thread.currentThread();
40:       print ("starting", 0);
41:       for (int index = 0; index < names.length; ++index) {
42:          Thread thread = new Thread (new printmsg (names[index],
43:                          index * 1L<<20));
44:          thread.start();
45:       }
46:       print ("finished", 0);
47:    }
48: }
49:
50: //TEST// ./manythreads >manythreads.out
51: //TEST// mkpspdf manythreads.ps manythreads.java* manythreads.out
52:
```

```
1: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: starting manythreads.java
2: manythreads.java:
3:     $Id: manythreads.java,v 1.6 2018-05-17 16:21:50-07 - - $
4: javac -Xlint manythreads.java
5: jar cfm manythreads Manifest manythreads$printmsg.class manythreads.clas
s
6: chmod +x manythreads
7: rm -f manythreads$printmsg.class manythreads.class
8: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: finished manythreads.java
```

```
 1: ( 1)main     : starting, result = 0
 2: ( 8)Hello    : starting, result = 0
 3: ( 9)World    : starting, result = 0
 4: ( 8)Hello    : finished, result = 0
 5: (11)Bar      : starting, result = 0
 6: (12)Baz      : starting, result = 0
 7: ( 9)World    : finished, result = 1048576
 8: (13)Penguin  : starting, result = 0
 9: (11)Bar      : finished, result = 3145728
10: (10)Foo      : starting, result = 0
11: ( 1)main     : finished, result = 0
12: (14)Dæmon    : starting, result = 0
13: (15)Racoon   : starting, result = 0
14: (14)Dæmon    : finished, result = 6291456
15: (15)Racoon   : finished, result = 7340032
16: (13)Penguin  : finished, result = 5242880
17: (12)Baz      : finished, result = 4194304
18: (10)Foo      : finished, result = 2097152
```