

```
1: // $Id: hellothread.java,v 1.14 2012-05-24 15:36:26-07 - - $
2:
3: //
4: // Hello World example using two threads.
5: // class greeter extends Thread.
6: //
7:
8: import static java.lang.System.*;
9: import static java.lang.String.*;
10:
11: class hellothread {
12:     static long nanostart = nanoTime();
13:
14:     static void print (String fmt, Object... args) {
15:         Thread self = Thread.currentThread();
16:         double millisec = (nanoTime() - nanostart) / 1e6;
17:         String ident = format ("%10.3f: %s(%d): ",
18:                                millisec, self.getName(), self.getId());
19:         String message = format (fmt, args);
20:         out.println (ident + message);
21:         out.flush();
22:     }
23:
24:     static class greeter extends Thread {
25:         long delay_msec;
26:         greeter (String threadname, int delay) {
27:             super (threadname);
28:             delay_msec = delay;
29:         }
30:         public void run() {
31:             print ("starting");
32:             for (int count = 0; count < 10; ++count) {
33:                 try {
34:                     sleep (delay_msec);
35:                 } catch (InterruptedException exn) {
36:                     print ("interrupted: %s", exn.getMessage());
37:                 }
38:                 print ("slept %d msec, %dth time", delay_msec, count);
39:             }
40:             print ("finished");
41:         }
42:     }
43:
44:     public static void main (String[] args) {
45:         print ("starting");
46:         greeter hello = new greeter ("Hello", 500);
47:         greeter world = new greeter ("World", 800);
48:         hello.start();
49:         world.start();
50:         print ("finished");
51:     }
52:
53: }
54:
55: //TEST// runprog -x hellothread.lis hellothread
56: //TEST// mkpspdf hellothread.ps hellothread.java* hellothread.lis
57:
```

[illegible]

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1:
2: .....
3: log: hellothread.log
4: .....
5:
6: 1 Script : /afs/cats.ucsc.edu/courses/cmcs012b-wm/bin/runprog
7: 2 limit c : 0 max core file size (KB)
8: 3 limit f : 4194303 max output file size (KB)
9: 4 limit t : 4294967295 max CPU time (sec)
10: 5 stdin : /dev/null
11: 6 stdout : hellothread.out
12: 7 stderr : hellothread.err
13: 8 log : hellothread.log
14: 9 listing : hellothread.lis
15: 10 Command : hellothread
16: 11 starting: pid 9120: 19:32:08.00
17: 12 finished: pid 9120: 19:32:16.00, real 8.00, user 0.08, sys 0.03
18: 13 pstatus: 0x0000 EXIT STATUS = 0
19:
20: .....
21: stdin: /dev/null
22: .....
23:
24:
25: .....
26: stdout: hellothread.out
27: .....
28:
29: 1 0.048: main(1): starting
30: 2 6.818: main(1): finished
31: 3 7.039: World(9): starting
32: 4 7.039: Hello(8): starting
33: 5 508.741: Hello(8): slept 500 msec, 0th time
34: 6 807.663: World(9): slept 800 msec, 0th time
35: 7 1009.266: Hello(8): slept 500 msec, 1th time
36: 8 1509.772: Hello(8): slept 500 msec, 2th time
37: 9 1608.162: World(9): slept 800 msec, 1th time
38: 10 2010.288: Hello(8): slept 500 msec, 3th time
39: 11 2408.657: World(9): slept 800 msec, 2th time
40: 12 2510.798: Hello(8): slept 500 msec, 4th time
41: 13 3011.309: Hello(8): slept 500 msec, 5th time
42: 14 3209.154: World(9): slept 800 msec, 3th time
43: 15 3511.801: Hello(8): slept 500 msec, 6th time
44: 16 4009.653: World(9): slept 800 msec, 4th time
45: 17 4012.320: Hello(8): slept 500 msec, 7th time
46: 18 4512.807: Hello(8): slept 500 msec, 8th time
47: 19 4810.222: World(9): slept 800 msec, 5th time
48: 20 5013.329: Hello(8): slept 500 msec, 9th time
49: 21 5013.829: Hello(8): finished
50: 22 5610.943: World(9): slept 800 msec, 6th time
51: 23 6415.443: World(9): slept 800 msec, 7th time
52: 24 7216.185: World(9): slept 800 msec, 8th time
53: 25 8016.969: World(9): slept 800 msec, 9th time
54: 26 8020.779: World(9): finished
55:
56: .....
57: stderr: hellothread.err
58: .....
59:

```