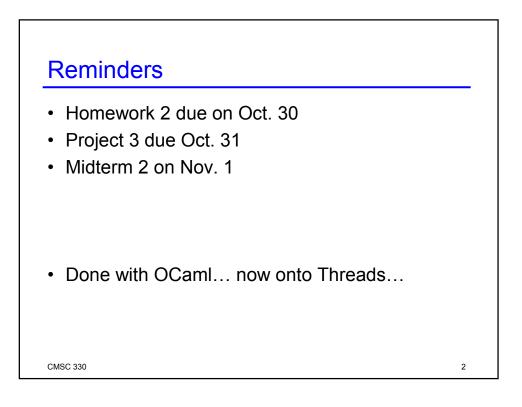
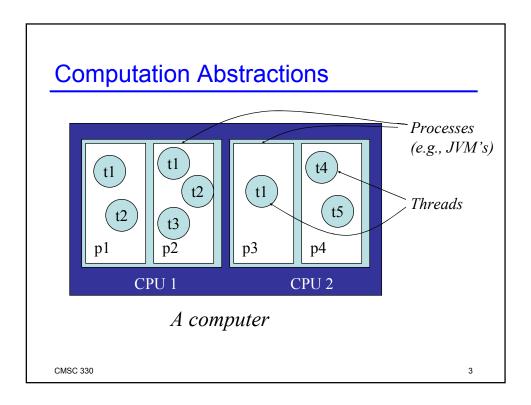
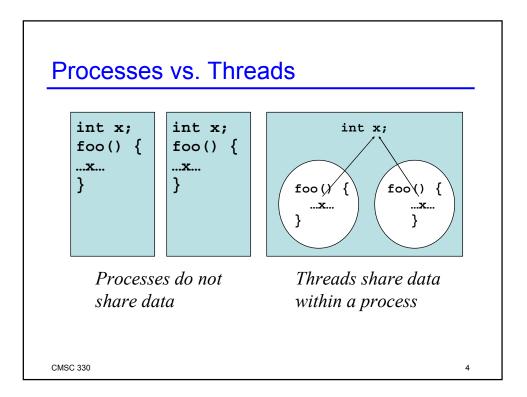
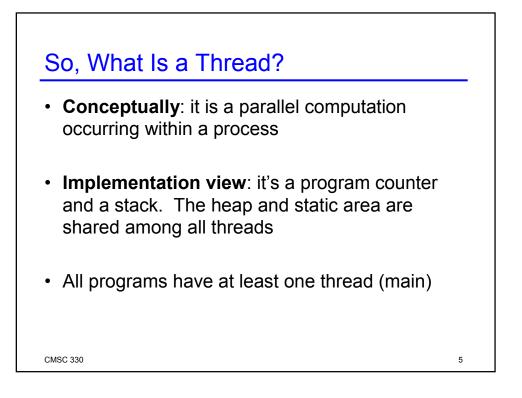
CMSC 330: Organization of Programming Languages

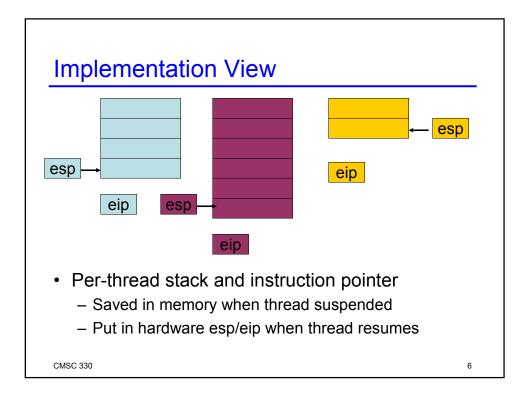
Threads

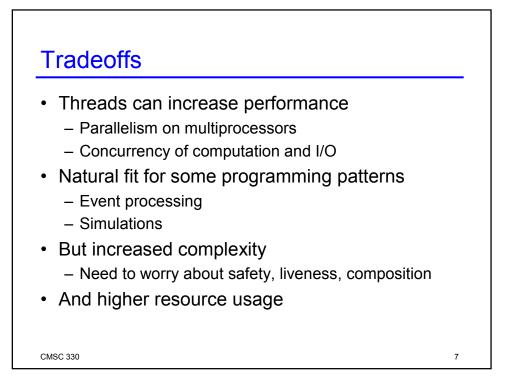


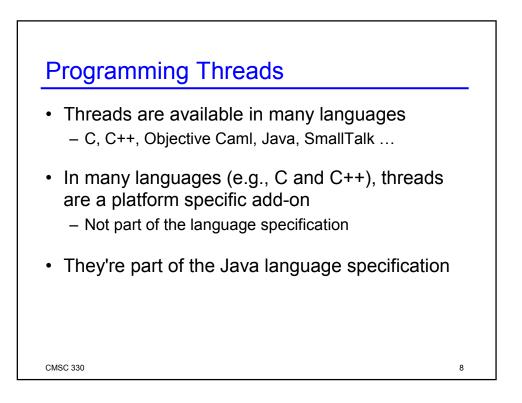


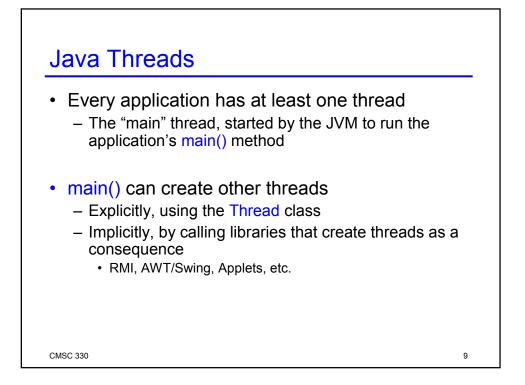


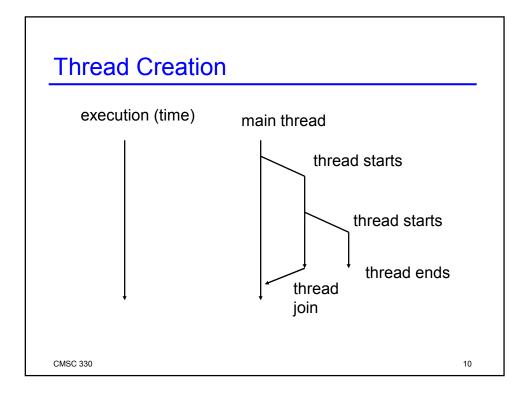


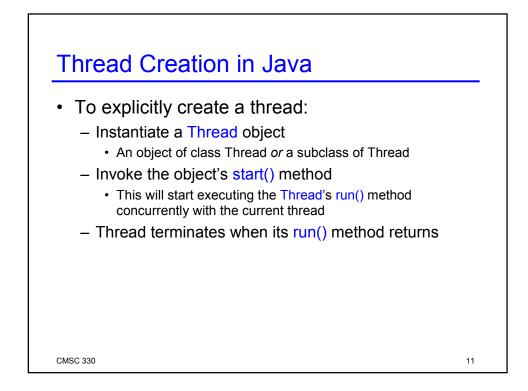


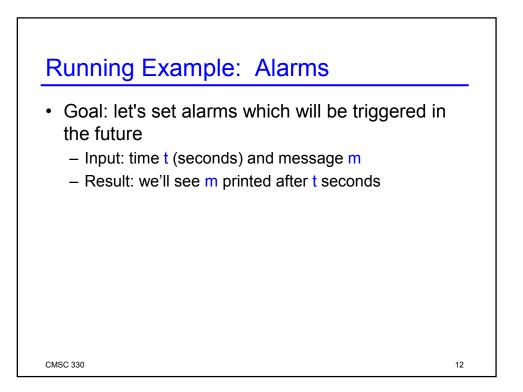


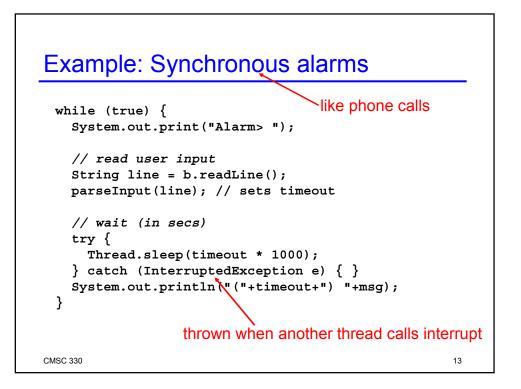










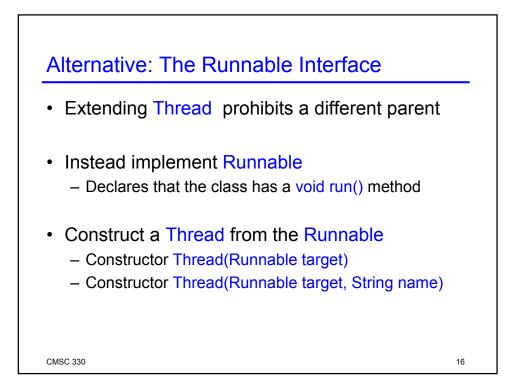


Making It Threaded (1) public class AlarmThread extends Thread { private String msg = null; private int timeout = 0; public AlarmThread(String msg, int time) { this.msg = msg; this.timeout = time; } public void run() { try { Thread.sleep(timeout * 1000); } catch (InterruptedException e) { } System.out.println("("+timeout+") "+msg); } } CMSC 330

Making It Threaded (2)

```
while (true) {
   System.out.print("Alarm> ");
   // read user input
   String line = b.readLine();
   parseInput(line);
   if (m != null) {
      // start alarm thread
      Thread t = new AlarmThread(m,tm);
      t.start();
   }
}
```

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Thread Example Revisited

```
public class AlarmRunnable implements Runnable {
   private String msg = null;
   private int timeout = 0;
   public AlarmRunnable(String msg, int time) {
     this.msg = msg;
     this.timeout = time;
   }
   public void run() {
     try {
       Thread.sleep(timeout * 1000);
     } catch (InterruptedException e) { }
     System.out.println("("+timeout+") "+msg);
   }
 }
                                                     17
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```

