```java
class Prefix extends java.lang.Thread {
  private int[] a;
  private int i;
  public Prefix(int[] myA, int myI) {
    a = myA;
    i = myI;
  }
  public void run() {
    int d = 1, sum = 0;
    while (d < m) {
      if (i >= d)
        sum = a[i-d];
      if (i >= d)
        a[i] += sum;
      d = d * 2;
    }
  }
}
```

FIGURE 18.14 Parallel prefix computation.