

```

run(args:String...):() = do
  needleLength = 20
  numRows = 10
  tableHeight = needleLength numRows
  var hits : ℝ64 = 0.0
  var n : ℝ64 = 0.0

  println("Starting parallel Buffons")
  recordTime(6.0)
  for i ← 1 # 3000 do
    δX = random(2.0) - 1
    δY = random(2.0) - 1
    rsq = δX2 + δY2
    if 0 < rsq < 1 then
      y1 = tableHeight random(1.0)
      y2 = y1 + needleLength(δY/sqrt(rsq))
      (yL, yH) = (y1 MIN y2, y1 MAX y2)
      if ceiling(yL/needleLength) = floor(yH/needleLength) then
        atomic do hits += 1.0 end
      end
      atomic do n += 1.0 end
    end
  end
  end
  probability = hits/n
  πest = 2.0/probability
  printTime(6.0)
  println("")
  print("estimated Pi = ")
  println(πest)
end
end

```