```
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 = δX^2 + δY^2
        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
    probability = hits / n
    πest = 2.0 / probability
    printTime(6.0)
    println("")
    print("estimated Pi = ")
    println(πest)
    end
end
```