Profiling

10 Numbers

```
⊿ ▶ Main Thread • 3 663* ms
   ⊿ ≡ 96,58 %  Main • 3 538* ms • 1 call • StandardDeviation.Program.Main(String[])
      ▽ 93,44 %  ReadLine • 3 422 ms • 1 call • System.Console.ReadLine
      ▽ 2,70 %  Write • 99 ms • 1 call • System.Console.Write(Double)
      ◢ ≡ 0,14 %  RandomNumbers • 5 ms • 1 call • StandardDeviation.Program.RandomNumbers(Int32)
         ▽ 0,10 %  GenerateSeed • 4 ms • 1 call • System.Random.GenerateSeed
         ▽ 0,02 %  AddWithResize • 1 ms • 3 calls • System.Collections.Generic.List`1.AddWithResize(T)
           0,00 %  4 functions hidden • 0 ms total • 22 calls total
      ◢ ≡ 0,11 %  StdDevCalculation • 4 ms • 1 call • StandardDeviation.Program.StdDevCalculation(List)
         ◢ ≡ 0,03 %  SumOfNumSquared • 1 ms • 1 call • StandardDeviation.Program.SumOfNumSquared(List)
            • ≡ 0,01 %  exp • 0 ms • 10 calls • library.basic.exp(Double, Double)
              ≡ 0,00 %  add • 0 ms • 10 calls • library.basic.add(Double, Double)
         ◢ ≡ 0,02 %  ArithMean • 1 ms • 1 call • StandardDeviation.Program.ArithMean(List)
              ≡ 0,00 %  2 functions hidden • 0 ms total • 11 calls total
           0,00 %  3 functions hidden • 0 ms total • 3 calls total
      ◢ ≡ 0,01 %  Program..ctor • 0 ms • 1 call • StandardDeviation.Program..ctor
           0,00 %  2 functions hidden • 0 ms total • 2 calls total
   ▽ 1,74 %  ProcessStartupHooks • 64 ms • 1 call • System.StartupHookProvider.ProcessStartupHooks
   ▽ 1,68 %  Setup • 62 ms • 1 call • System.AppContext.Setup(Char**, Char**, Int32)
      0,00 %  SetCommandLineArgs • 0 ms • 1 call • System.Environment.SetCommandLineArgs(String[])
```

100 Numbers

```
⊿ ▶ Main Thread • 3 370* ms
   ⊿ ≡ 96,50 %  Main • 3 252* ms • 1 call • StandardDeviation.Program.Main(String[])
      ▽ 92,82 %  ReadLine • 3 128 ms • 1 call • System.Console.ReadLine
      ▽ 3,12 %  Write • 105 ms • 1 call • System.Console.Write(Double)
      ◢ ≡ 0,16 %  StdDevCalculation • 5 ms • 1 call • StandardDeviation.Program.StdDevCalculation(List)
         ◢ ≡ 0,04 %  ArithMean • 1 ms • 1 call • StandardDeviation.Program.ArithMean(List)
              ≡ 0,00 %  2 functions hidden • 0 ms total • 101 calls total
         ◢ ≡ 0,03 %  SumOfNumSquared • 1 ms • 1 call • StandardDeviation.Program.SumOfNumSquared(List)
            • ≡ 0,01 %  exp • 0 ms • 100 calls • library.basic.exp(Double, Double)
              ≡ 0,00 %  add • 0 ms • 100 calls • library.basic.add(Double, Double)
           0,00 %  3 functions hidden • 0 ms total • 3 calls total
      ◢ ≡ 0,14 %  RandomNumbers • 5 ms • 1 call • StandardDeviation.Program.RandomNumbers(Int32)
         ▽ 0,09 %  GenerateSeed • 3 ms • 1 call • System.Random.GenerateSeed
         ▽ 0,02 %  AddWithResize • 1 ms • 6 calls • System.Collections.Generic.List`1.AddWithResize(T)
           0,00 %  4 functions hidden • 0 ms total • 202 calls total
      ◢ ≡ 0,01 %  Program..ctor • 0 ms • 1 call • StandardDeviation.Program..ctor
           0,00 %  2 functions hidden • 0 ms total • 2 calls total
   ▽ 2,02 %  ProcessStartupHooks • 68 ms • 1 call • System.StartupHookProvider.ProcessStartupHooks
   ▽ 1,48 %  Setup • 50 ms • 1 call • System.AppContext.Setup(Char**, Char**, Int32)
      0,00 %  SetCommandLineArgs • 0 ms • 1 call • System.Environment.SetCommandLineArgs(String[])
```

1000 Numbers

⊿ ▶ **Main Thread** • 1 750* ms
  ⊿ ☰ **94,13 %** Main • 1 647* ms • **1 call** • StandardDeviation.**Program**.Main(String[])
    ▽ **87,97 %** ReadLine • 1 539 ms • **1 call** • System.**Console**.ReadLine
    ▽ **5,06 %** Write • 89 ms • **1 call** • System.**Console**.Write(Double)
    ◢ ☰ **0,39 %** RandomNumbers • 7 ms • **1 call** • StandardDeviation.**Program**.RandomNumbers(Int32)
      ▽ **0,24 %** GenerateSeed • 4 ms • **1 call** • System.**Random**.GenerateSeed
      ▽ **0,04 %** AddWithResize • 1 ms • **9 calls** • System.Collections.Generic.**List`1**.AddWithResize(T)
      ▽ **0,03 %** Next • 1 ms • **1 000 calls** • System.**Random**.Next(Int32)
        0,01 % InternalSample • 0 ms • **1 000 calls** • System.**Random**.InternalSample
      ▭ **0,00 %** 2 functions hidden • 0 ms total • 2 calls total
    ◢ ☰ **0,32 %** StdDevCalculation • 6 ms • **1 call** • StandardDeviation.**Program**.StdDevCalculation(List)
      ◢ ☰ **0,12 %** SumOfNumSquared • 2 ms • **1 call** • StandardDeviation.**Program**.SumOfNumSquared(List)
        ● ☰ **0,05 %** exp • 1 ms • **1 000 calls** • library.**basic**.exp(Double, Double)
        ● ☰ **0,01 %** add • 0 ms • **1 000 calls** • library.**basic**.add(Double, Double)
      ◢ ☰ **0,06 %** ArithMean • 1 ms • **1 call** • StandardDeviation.**Program**.ArithMean(List)
        ● ☰ **0,01 %** add • 0 ms • **1 000 calls** • library.**basic**.add(Double, Double)
        ☰ **0,00 %** div • 0 ms • **1 call** • library.**basic**.div(Double, Double)
      ▭ **0,00 %** 3 functions hidden • 0 ms total • 3 calls total
    ◢ ☰ **0,03 %** Program..ctor • 0 ms • **1 call** • StandardDeviation.**Program**..ctor
      ▭ **0,00 %** 2 functions hidden • 0 ms total • 2 calls total
  ▽ **3,47 %** ProcessStartupHooks • 61 ms • **1 call** • System.**StartupHookProvider**.ProcessStartupHooks
  ▽ **2,40 %** Setup • 42 ms • **1 call** • System.**AppContext**.Setup(Char**, Char**, Int32)
    0,00 % SetCommandLineArgs • 0 ms • **1 call** • System.**Environment**.SetCommandLineArgs(String[])