Profiling

Starting Code:

No changes

Midmark

time: 23.718 Secondscurrent vs intial: 1.000current vs previous: 1.000

valgrind instruction count: 296,499,077,764

Advent

time: did not finish*current vs intial: N/Acurrent vs previous: N/A

Sandmark

• time: 15 Minutes 24.734 Seconds

current vs intial: 1.000current vs previous: 1.000

compiling with Ito:

we turned on link time optimization

Midmark

time: 23.421 Secondscurrent vs intial: 0.987current vs previous: 0.987

valgrind instruction count: 296,391,886,525

Advent

time: did not finish*current vs intial: N/Acurrent vs previous: N/A

Sandmark

• time: 15 Minutes 32.780 Seconds

current vs intial: 1.009current vs previous: 1.009

removed redundant check (contains):

We removed a call to .contains(), which is a linear time function, from unmap segments and load program

Midmark

• time: 624 ms

current vs intial: 0.026current vs previous: 0.027

valgrind instruction count: 3,119,707,449

Advent

time: 6.668 Secondscurrent vs intial: N/Acurrent vs previous: N/A

Sandmark

time: 15.714 Secondscurrent vs intial: 0.017current vs previous: 0.017

moving definition of variables outside of the loop:

We raised the scope of variables for registers and values to outside of our execution loop

Midmark

• time: 619 ms

current vs intial: 0.026current vs previous: 0.992

• valgrind fetch count: 3,119,705,247

Advent

time: 6.734 Secondscurrent vs intial: N/Acurrent vs previous: 1.010

Sandmark

time 15.699 Secondscurrent vs intial: 0.017current vs previous: 0.999

Notes:

*we ran it for over 20 minutes and it didn't finish