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Get Started

Benchmark3FLWIV ●

Users > fosterwareiv > Comp Org II Benchmarks > Benchmark3FLWIV > ...

1import time

2

3array_size = 5 * 10**9 # 5 billion elements

4element_size = 4 #bytes per element

5

6

7

8start = time.perf_counter()

9#creates array in memory

10array = bytearray(array_size * element_size)

11

12count = 0

13#reads from the array

14for i in range(array_size):

15| element = int.from_bytes(array[i*element_size:(i+1)*element_size], byteorder='little')

16| count += element

17

18stop = time.perf_counter()

19print("Memory Benchmark execution time:", start-stop)

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Python - fosterwareiv

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• /usr/local/bin/python3 "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark2FLWIV"

• fosterwareiv@Fosters-MacBook-Air ~ % /usr/local/bin/python3 "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark2FLWIV"

64 bit Floating point operation benchmark execution time: 11075.812767982483

✖ fosterwareiv@Fosters-MacBook-Air ~ % /usr/local/bin/python3 Untitled-1

/usr/local/bin/python3: can't open file '/Users/fosterwareiv/Untitled-1': [Errno 2] No such file or directory

✖ fosterwareiv@Fosters-MacBook-Air ~ % /usr/local/bin/python3 "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark3FLWIV"

Traceback (most recent call last):

File "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark3FLWIV", line 10, in <module>

array = bytearray(array_size * element_size)

NameError: name 'bytearray' is not defined. Did you mean: 'bytearray'?

✖ fosterwareiv@Fosters-MacBook-Air ~ % /usr/local/bin/python3 "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark3FLWIV"

Traceback (most recent call last):

File "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark3FLWIV", line 14, in <module>

for i in range(arrasize):

NameError: name 'arrasize' is not defined. Did you mean: 'array_size'?

• fosterwareiv@Fosters-MacBook-Air ~ % /usr/local/bin/python3 "/Users/fosterwareiv/Comp Org II Benchmarks/Benchmark3FLWIV"

Memory Benchmark execution time: -1329.2989972499781

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3.10.4 64-bit

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