Sean Lai & Sai Badey

Lab4

Typescript for lab4performance.cpp

[nblai@uw1-320-21 ~]$ valgrind ./a.out

==22951== Memcheck, a memory error detector

==22951== Copyright (C) 2002-2009, and GNU GPL'd, by Julian Seward et al.

==22951== Using Valgrind-3.5.0 and LibVEX; rerun with -h for copyright info

==22951== Command: ./a.out

Recursive Merge Sort:

4

10

30

34

44

64

77

81

93

99904

99919

99924

99927

99932

99950

99958

99960

99972

Recursive Merge Sort takes 220000 clock ticks ~= 0.22 seconds

Iterative Merge Sort:

8

13

14

20

29

39

44

56

85

99888

99897

99900

99951

99955

99975

99982

99985

99993

Iterave Merge Sort takes 50000 clock ticks ~= 0.05 seconds

Heap Sort:

1

8

13

33

48

51

52

60

62

99887

99890

99894

99900

99923

99924

99950

99988

99989

Heap Sort takes 80000 clock ticks ~= 0.08 seconds

Quick/Insertion Sort:

76611

43198

59469

35744

67869

21196

75409

637

44438

99784

99926

99773

99860

99690

99990

99998

99993

99996

Quick/Insertion Sort takes 50000 clock ticks ~= 0.05 seconds

==22951==

==22951== HEAP SUMMARY:

==22951== in use at exit: 0 bytes in 0 blocks

==22951== total heap usage: 10,000 allocs, 10,000 frees, 574,464 bytes allocated

==22951==

==22951== All heap blocks were freed -- no leaks are possible

==22951==

==22951== For counts of detected and suppressed errors, rerun with: -v

==22951== ERROR SUMMARY: 9999 errors from 7 contexts (suppressed: 15 from 8)