



Lab1 - Understanding comparison based sorting techniques and get started with analysis. Design, Implementation, Debugging and Profiling.

Prof. Jigar Pandya • Dec 10 (Edited 11:44 AM)

Write a program to sort N numbers using Merge sort and Quick Sort.

Learn the use of GDB debugger.

Learn the use of GProf profiling tool.

Categories

- Comparison
- Counting

Properties

- In place
- Stable
- Online
- Adaptive

Time command

C API for finding difference of timestamp.

Time Complexities of sorting techniques

Best Case

Average Case

Worst Case



GDB: The GNU Project...

<https://www.gnu.org/soft...>



Gprof | High Performa...

<https://hpc.llnl.gov/softw...>



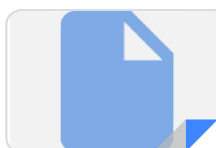
Top (GNU gprof)

<https://sourceware.org/bi...>



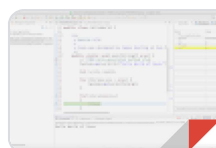
1_erroneous_factorial...

C



2_erroneous_merges...

Binary File



EclipseDebuggerGUI....

Image

Class comments

