

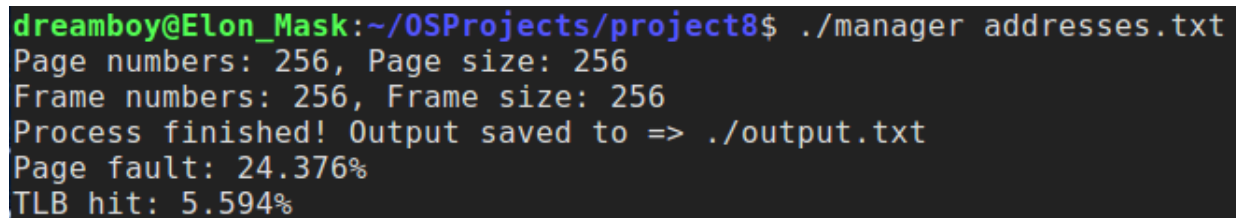
CS307 Project7: Contiguous Memory Allocation

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1 Programming Thoughts

2 Execution Results And Snapshots

A terminal window with a dark background and light-colored text. The prompt is 'dreamboy@Elon_Mask:~/OSProjects/project8\$'. The command executed is './manager addresses.txt'. The output consists of five lines: 'Page numbers: 256, Page size: 256', 'Frame numbers: 256, Frame size: 256', 'Process finished! Output saved to => ./output.txt', 'Page fault: 24.376%', and 'TLB hit: 5.594%'.

```
dreamboy@Elon_Mask:~/OSProjects/project8$ ./manager addresses.txt
Page numbers: 256, Page size: 256
Frame numbers: 256, Frame size: 256
Process finished! Output saved to => ./output.txt
Page fault: 24.376%
TLB hit: 5.594%
```

Figure 1: test

```
correct.txt (~/.OSProjects/project8) - VIM
1 Virtual address: 16916 Physical address: 20 Value: 0
2 Virtual address: 62493 Physical address: 285 Value: 0
3 Virtual address: 30198 Physical address: 758 Value: 29
4 Virtual address: 53683 Physical address: 947 Value: 108
5 Virtual address: 40185 Physical address: 1273 Value: 0
6 Virtual address: 28781 Physical address: 1389 Value: 0
7 Virtual address: 24462 Physical address: 1678 Value: 23
8 Virtual address: 48399 Physical address: 1807 Value: 67
9 Virtual address: 64815 Physical address: 2095 Value: 75
10 Virtual address: 18295 Physical address: 2423 Value: -35
11 Virtual address: 12218 Physical address: 2746 Value: 11
12 Virtual address: 22760 Physical address: 3048 Value: 0
13 Virtual address: 57982 Physical address: 3198 Value: 56
14 Virtual address: 27966 Physical address: 3390 Value: 27
15 Virtual address: 54894 Physical address: 3694 Value: 53
16 Virtual address: 38929 Physical address: 3857 Value: 0
17 Virtual address: 32865 Physical address: 4193 Value: 0
18 Virtual address: 64243 Physical address: 4595 Value: -68
19 Virtual address: 2315 Physical address: 4619 Value: 66
20 Virtual address: 64454 Physical address: 5062 Value: 62
21 Virtual address: 55041 Physical address: 5121 Value: 0
22 Virtual address: 18633 Physical address: 5577 Value: 0
23 Virtual address: 14557 Physical address: 5853 Value: 0
24 Virtual address: 61006 Physical address: 5966 Value: 59
25 Virtual address: 62615 Physical address: 407 Value: 37
26 Virtual address: 7591 Physical address: 6311 Value: 105
27 Virtual address: 64747 Physical address: 6635 Value: 58
28 Virtual address: 6727 Physical address: 6727 Value: -111
29 Virtual address: 32315 Physical address: 6971 Value: -114
30 Virtual address: 60645 Physical address: 7397 Value: 0
31 Virtual address: 6308 Physical address: 7588 Value: 0
32 Virtual address: 45688 Physical address: 7800 Value: 0
33 Virtual address: 969 Physical address: 8137 Value: 0
34 Virtual address: 40891 Physical address: 8379 Value: -18
35 Virtual address: 49294 Physical address: 8590 Value: 48
36 Virtual address: 41118 Physical address: 8862 Value: 40
37 Virtual address: 21395 Physical address: 9107 Value: -28

<ect.txt [FORMAT=unix] [TYPE=TEXT] [POS=1,1][0%] 23/05/19 - 16:40 <ut.txt [FORMAT=unix] [TYPE=TEXT] [POS=1,1][0%] 23/05/19 - 16:40
"correct.txt" 1000L, 56228C
```

Figure 2: test

3 Code Explanation