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Lab Time: Friday, 4:00pm - 5:50pm

Lab 1 Report

1. Quickly describe the exact changes you made and why you made them. Discuss how you approached the problem and exactly how you determined the source of the problem. Discuss which debugger commands you found most helpful.

   - Exact changes: Add "dp != NULL" as the condition of the outer for-loop on line 447 of lookup.c.
   - I made a simple change that verified the variable stored in "dp" was not null. I was able to quickly find the source of the error by just using the gdb debugger as it output that a segmentation fault had occurred after hitting line 450 in lookup.c. I immediately suspected the null variable because this is a common occurrence when working with a pointer that is typed to an object which contains variables. When the pointer tries to access one of the variables, it's essentially saying null->variable, which cannot be handled, so a segmentation fault occurs.
   - The commands I found helpful was the run command, because it's the only thing I needed in order to locate the source of the problem.

2. List (in order) the modifications of my_watch, including both the old value and new value it was set with.
   1. Old: 0, New: 2
   2. Old: 2, New: 248
   3. Old: 248, New 228
   4. Old 228, New 208
   5. Old 208, New 188
   6. Old 188, New 168
   7. Old 168, New 169
   8. Old 169, New 149
   9. Old 149, New 129
   10. Old 129, New 180
   11. Old 180, New 160
   12. Old 160, New 140