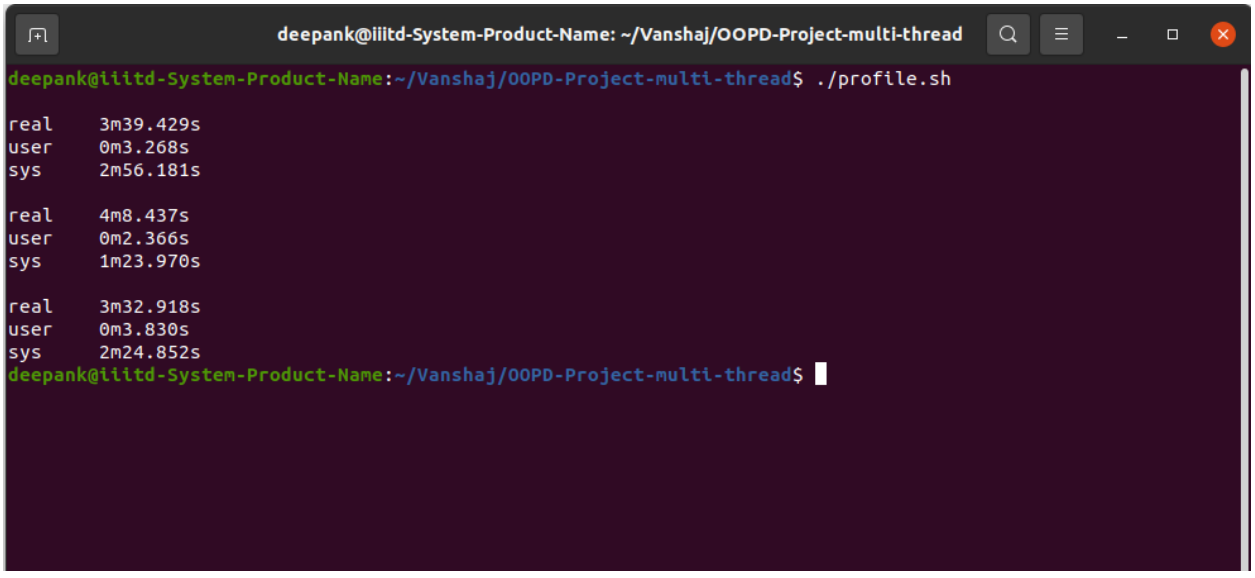
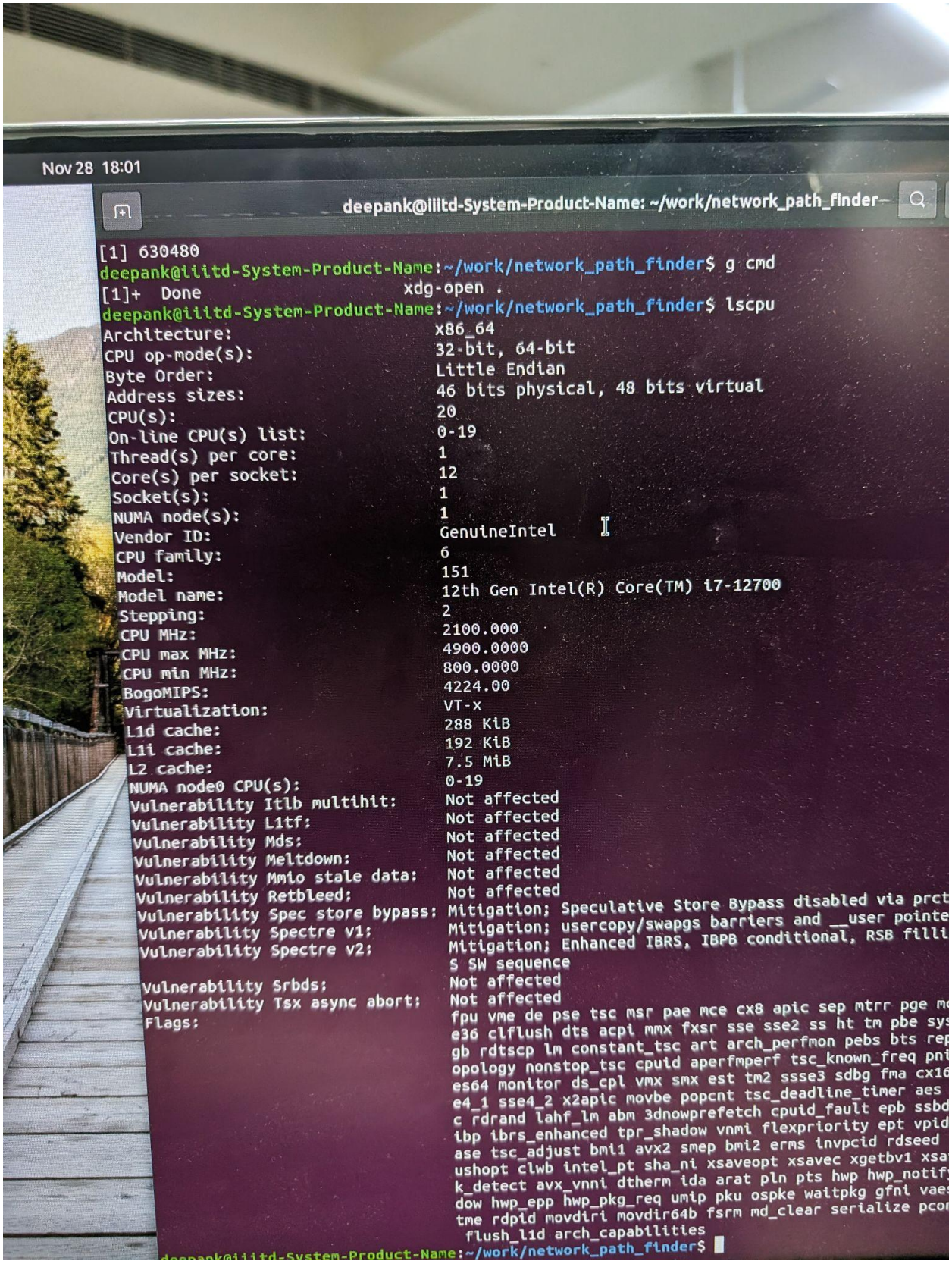
Result for profiling without thread implementation. The first time command output is for (1), the second is for (2), and the third is for (3).



Result for profiling with thread implementation. We can see that for the directory structure (1) and (2), the difference in time taken is not much since we are only working with files; however, we see that in the directory structure (3), there is an almost 50% reduction in time due to the nested directories where each thread can work.



Here is the hardware configuration of the PC that we used.