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ECE 460: Computer Operating Systems

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PS4: Fixing your cat

Hardware: (using lscpu command)

Architecture: i686

CPU op-mode(s): 32-bit, 64-bit Byte Order: Little Endian

CPU(s): 2
On-line CPU(s) list: 0,1
Thread(s) per core: 1
Core(s) per socket: 2
Socket(s): 1

Vendor ID: GenuineIntel

CPU family: 6 Model: 15 Stepping: 13

CPU MHz: 1601.000
BogoMIPS: 3191.19
L1d cache: 32K
L1i cache: 32K
L2 cache: 2048K

Makefile:

catgrepmore:

gcc -std=c99 -g catgrepmore.c -o catgrepmore

Notes: The input files were a minimum of 2.5 MB and a maximum of 20 MB

Screenshots:

0) Running catgrepmore with pattern = "Hi":

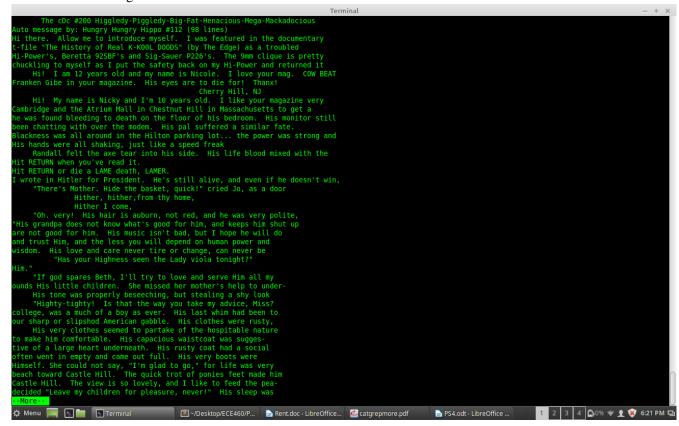
Terminal

george@george-Vostro-1400 ~/Desktop/ECE460/PS4 \$./catgrepmore "Hi" inl in2 in3

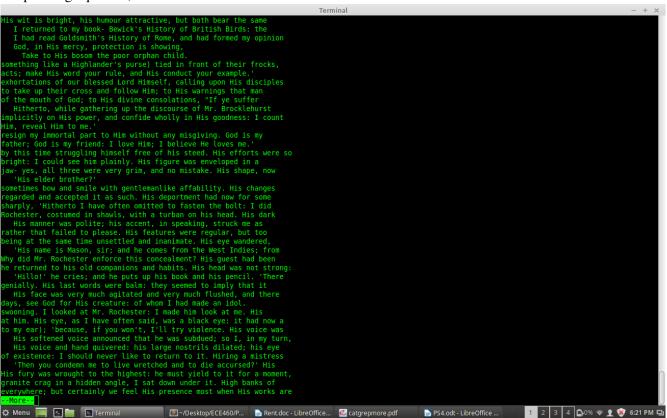
Operating System: (using uname -mrs)

Linux 3.13.0-37-generic i686

1) 1st screen after running above command:



2) After pressing "q" once, move to next infile



status of grep and more after having left first infile (this is not shown in the screen shot bc of length of output):

catgrepmore: grep: child process with pid=7632 exited normally catgrepmore: more: child process with pid=7633 exited normally

3) After pressing "q" second time, move to next and last infile:

Street. As I passed the well-remembered door, which must always be associated in my mind with my wooing, and with the dark incidents of in Scarlet, I was seized with a keen desire to see Holmes again, and to know how he was employing his extraordinary powers. His rooms were brilliantly lit, and, even as I looked up, I saw his tall, spare figure pass twice in a dark silhouette against the blind. He was pacing the room swiftly, eagerly, with his his sunk upon his chest and his hands clasped behind him. To me, who knew his every mood and habit, his attitude and manner told their own story. He was at wo formerly been in part my own. is manner was not effusive. It seldom was; but he was glad, I think, to see me. With hardly a word spoken, but with a kindly eye, he waved me to an armchair threw across his case of cigars, and indicated a spirit case and a gasogene in the corner. Then he stood before the fire and looked me over in his singular . Not at all. The 'G' with the small 't' stands for 'Gesellschaft,' which is the German for 'Company.' It is a customary contraction like our 'Co.' 'P,' of co se, stands for 'Papier.' Now for the 'Eg.' Let us glance at our Continental Gazetteer." He took down a heavy brown volume from his shelves. "Eglow, Eglonitz here we are, Egria. It is in a German-speaking country--in Bohemia, not far from Carlsbad. 'Remarkable as being the scene of the death of Wallenstein, and fo its numerous glass-factories and paper-mills.' Ha, ha, my boy, what do you make of that?" His eyes sparkled, and he sent up a great blue triumphant cloud f n his cigarette. in man entered who could hardly have been less than six feet six inches in height, with the chest and limbs of a Hercules. His dress was rich with a richness tich would, in England, be looked upon as akin to bad taste. Heavy bands of astrakhan were slashed across the sleeves and fronts of his double-breasted coat, while the deep blue cloak which was thrown over his shoulders was lined with flame-coloured silk and secured at the neck with a brooch which consisted of a sigle flaming beryl. Boots which extended halfway up his calves, and which were trimmed at the tops with rich brown fur, completed the impression of barbaric ulence which was suggested by his whole appearance. He carried a broad-brimmed hat in his hand, while he wore across the upper part of his face, extending of the past half was still raised to it as he entered. From the lever part of the face he appeared to be a man of strong character, with a thick, hanging lip, and a long, straight chin suggestive of resolution pushed to the apoth of obstinacy. disappeared into his bedroom and returned in a few minutes in the character of an amiable and simple-minded Nonconformist clergyman. His broad black hat, s baggy trousers, his white tie, his sympathetic smile, and general look of peering and benevolent curiosity were such as Mr. John Hare alone could have equalled. It was not merely that Holmes changed his costume. His expression, his manner, his very soul seemed to vary with every fresh part that he assumed. The sage lost a fine actor, even as science lost an acute reasoner, when he became a specialist in crime.

His name is Vincent Spaulding, and he's not such a youth, either. It's hard to say his age. I should not wish a smarter assistant, Mr. Holmes; and I know ver well that he could better himself and earn twice what I am able to give him. But, after all, if he is satisfied, why should I put ideas in his head?"

His face fell immediately. John Clay, the murderer, thief, smasher, and forger. He's a young man, Mr. Merryweather, but he is at the head of his profession, and I would rather have my racelets on him than on any criminal in London. He's a remarkable man, is young John Clay. His grandfather was a royal duke, and he himself has been to Eton nd Oxford. His brain is as cunning as his fingers, and though we meet signs of him at every turn, we never know where to find the man himself. He'll crack a rib in Scotland one week, and be raising money to build an orphanage in Cornwall the next. I've been on his track for years and have never set eyes on him y All right," said Jones with a stare and a snigger. "Well, would you please, sir, march upstairs, where we can get a cab to carry your Highness to the police istation?"
So far I had got when we went to visit the scene of action. I surprised you by beating upon the pavement with my stick. I was ascertaining whether the cellar stretched out in front or behind. It was not in front. Then I rang the bell, and, as I hoped, the assistant answered it. We have had some skirmishes, but we had never set eyes upon each other before. I hardly looked at his face. His knees were what I wished to see. You must yourself have remarked how worn, wrinkle it, and stained they were. They spoke of those hours of burrowing. The only remaining point was what they were burrowing for. I walked round the corner, saw the city and Suburban Bank abutted on our friend's premises, and felt that I had solved my problem. When you drove home after the concert I called upon Scotland Yard and upon the chairman of the bank directors, with the result that you have seen." 🌣 Menu 💹 🔁 🛅 🖪 Terminal 📴 ~/Desktop/ECE460/P... 🚡 Rent.doc - LibreOffice... 🙋 catgrepmore.pdf 📑 PS4.odt - LibreOffice ... status of grep and more after having left 2nd infile (this is not shown in the screen shot be of length of output): catgrepmore: grep: child process with pid=7642 exited normally catgrepmore: more: child process with pid=7643 exited normally

After pressing "q" third time, and exiting entire program

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y in Scarlet, I was seized with a keen desire to see Holmes again, and to know how he was employing his extraordinary powers. His rooms were brilliantly lift, and some long that the property of the program o

status of grep and more after having left 3rd infile and exited the program (this is not shown in the screen shot bc of length of output):

catgrepmore: grep: child process with pid=7650 exited normally catgrepmore: more: child process with pid=7651 exited normally

