

avestion 5: 3- pipe files : files that are connected via pipe, these files don't have children and, can only have one block also no user information 4- link files: files that link other files together, these files also don't have children and only have one block don't contain user information. 5- Device drivers: files that are device drivers and clan't contain user information / 6- sockets: these files do not have user information and can only be one block.

Question 1:

Yes the amount of disk space is enough because in reality we rarely face the worst case senario in which the system has to handle n processes at the sume time.

Wame the six file types implemented in Unix. Give a description/example

please Look at the back of this

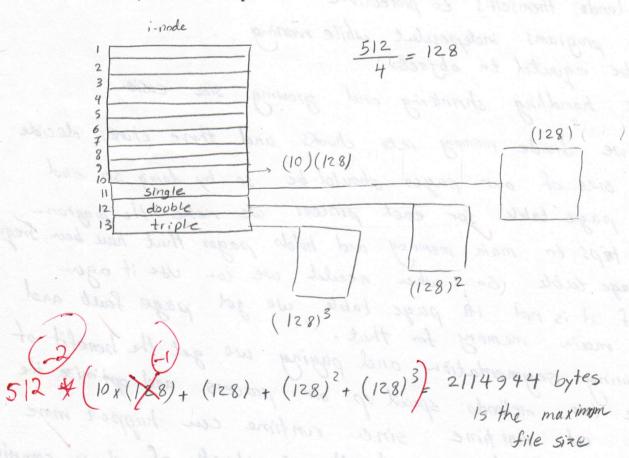
6. Some operating systems provide a system call, "rename()", to give a file a new name. Is there any difference between using this call to rename a file and just copying the file to a new file with the new name, followed by deleting the old one (include a detailed explanation of why/how)

Yes, there is a difference. To rename a file, we don't change anything thus the creation data and the date of last modified stays the same as before. But, to copy the file to a new file, we change the creation data and the data of last modified both to the creation and last modified date for the new file. (Also when we want to create a new file, if

7. List three advantages of using page-segmented memory over segmented memory. Be specific/detailed and explain why it's an advantage:

in pay-segmented memory we have combined paying which is transparent to programmer with segmentation which is visible to a programmer. Meaning that we put fixed-size pages into segments that can very in length so we are having the best of both worlds, we may get a lower compilation speed but we oply compile once so we improve our time speed which is always better since we always run more than one time. please see back of this page

8. A UNIX filesystem has 512 byte blocks and 4 byte disk addresses. What is the maximum filesize assuming inodes have 10 direct, one single, one double, and one triple indirect addresses each?



a new name. Is there any difference between virtual address | segment # | present bit | modified bit other page frame control length segment base Here also in segment section we about need modified bit or present bit because we already have that in page section. in segmented memory we get the following: - segments lends themselfs to protection - they make programs independent while running - they can be equated to objects - they make handling shrinking and growing size easier in paying we divide memory into chunks and there chunks decide what the size of our pages should be so by dsing so and having a page table for each process we make the program make less trips to main memory and holds pages that have been frequently vsed in page table so when needed we can use it agon and only if it is not it page table we got page fauts and go check main memory for that. So combining segmentation and paging we get the henefit of both these two methods special up our process and optimize the performance at runtime since runtime can hupper more then one we everthough we get the drawback of slower compile