CASE STUDY: Time taken by Library Calls utility and System Call utility to copy a file.

**i. .mp4 File Size = 57 MB**

time ./cp\_lb 'Linux Understatimending Shared Library Files.mp4' 1.mp4

time ./cp\_sys 'Linux Understatimending Shared Library Files.mp4' 1.mp4

|  |  |  |
| --- | --- | --- |
|  | LIBRARY CALL | SYSTEM CALL |
| Real | 0m0.001s | 0m0.626s |
| User | 0m0.002s | 0m0.000s |
| SYS | 0m0.000s | 0m0.110s |

**ii. .pdf file Size = 5.5 MB**

time ./cp\_lb 'Galvin 8th Edition.pdf' 1.pdf

time ./cp\_sys 'Galvin 8th Edition.pdf' 1.pdf

|  |  |  |
| --- | --- | --- |
|  | LIBRARY CALL | SYSTEM CALL |
| Real | 0m0.012s | 0m0.048s |
| User | 0m0.004s | 0m0.000s |
| SYS | 0m0.008s | 0m0.013s |

**iii. .txt file Size = 3.5KB**

time ./cp\_lb sample3.txt 1.txt

time ./cp\_sys sample3.txt 1.txt

|  |  |  |
| --- | --- | --- |
|  | LIBRARY CALL | SYSTEM CALL |
| Real | 0m0.002s | 0m0.002s |
| User | 0m0.002s | 0m0.002s |
| SYS | 0m0.000s | 0m0.000s |

**CONCLUSION:**

**For Larger files, System calls are taking more time to copy a file.**