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CMSI 3510

Preliminary Design Document

1.1 – Description of modification/addition to Linux:

The addition would be a command to change multiple file names using a single Linux kernel command.

1.2 – Project Usefulness Rationale:

This command would be helpful if a situation arose where you would need to change various file names for a user action. Similar to a chmod or chown, this could be useful for root user actions and actions regarding a situation where a user wanted to modify the names of multiple files in bulk at a single time.

1.3 – Preliminary list of [possible] Linux modules that will be modified/affected:

We will probably need to modify VFS to access and change the specified file names. We also might need to change filesystem specific modules like ext4 or XFS for the same reason. Lastly we might need to change shell specific operations like "mv" or "rename". Depending on our specific implementations, more modules might need to be modified.

1.4 – Preliminary list of any new modules that you will produce [or 'Not Applicable' if there are none]
We will be adding a new module.