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CMSI 3510

Detailed Design Document

2.1 – Detailed list of Linux modules that will be modified/affected

We will only be creating a new module that uses call functions from the file system code. Therefore no other linux modules will be modified.

2.2 – Detailed list of any new modules that you will produce [or 'Not Applicable' if there are none]

We will be creating a new module "rnall" based on the name of our command, which is short for "rename all". The goal of this new module will be the ability to rename multiple files using a single kernel command.

We will base our command off the regular expression in the "rename" command to match different patterns in file names and replace them with the desired string or pattern.

2.3 – Class diagram showing affected modules [and any new modules] and how they related to one another

2.4 – List or table of explanations of all command line options that will be implemented

The "rnall" command will give the user the ability to change multiple file names in a single command. The following syntax will be used:

rnall source_regex replacement_regex

This command would change all files matching the old name pattern to have the new name pattern. Files not matching the old names would not be affected. An example situation would be if the user has a list of files that are 'example1.txt', 'example2.txt', then the user can change them easily to be 'example01.txt', 'example02.txt' or 'example1.txt', 'example2.txt' to 'example1.c, 'example2.c'.