Change Management

Week 4

Adding and removing patches

Lab Scenario

- You are developing an operating system and command set that must pass automated tests
- You recently updated to coreutils 8.0 and now one of your tests fails
- You can't change the tests so your only option is to conform and pass them

The Problem

- When running the command rm improperly on files starting with a dash (e.g. "rm –file" instead of "rm ./-file") you receive different output than before
- · You expect:

rm: invalid option -- 'f'

Try `rm --help' for more information.

· But you receive:

rm: invalid option -- 'f'

Try `rm ./-file' to remove the file `-file'.

Try `rm --help' for more information.

The Solution

- You track down the specific patch that was added to the source code that produces this extra line
- You can now try to figure out how remove the patch from the source code so you no longer receive the extra line

Getting Started

- Read the lab
- · Read the patch notes
- · Download coreutils 8.0
- · Save the patch to a file
- Read "man diff" and "man patch"
- Remove the patch from coreutils 8.0, build, and test

Removing the Patch

- · There are multiple solutions
- It's possible to remove the patch without editing the patch or directly editing the source code
- Try examining the contents of the patch
- Experiment with "diff" and "patch"

Test the Removal

- Configure your makefiles and make
- · Test it
 - mkdir test
 - cd test
 - touch ./-ooops a b c
 - rm *

Generate a tentative version of your patch

- diff –u rm.c rm.c.orig
- rm.c.orig is your backup file for rm.c