CSCI 3294 March 29, 2006

Administrivia

• Homework 8 on Web; due next Wednesday.

Slide 1

More About Files — Permissions

- We talked about most of bits settable with chmod r/w/x for u/g/o. But
 there are three more bits, applicable to directories and executable files . . .
- setuid "sets process's effective user ID". No effect on directories.
- setgid "sets effective group ID". Different effects on executables and (on some systems) directories.
- ``sticky'' ... For executables, no longer used on some systems for original purpose. For directories, on some systems used for "restricted deletion".

Slide 2

CSCI 3294 March 29, 2006

More About Files — Hard Links Versus Soft Links

• Some background: Unix filesystems traditionally keep track of files using "inodes". (I.e., directory entries point to inodes, which contain permissions, etc., plus info about file blocks.)

- "Hard link" points to inode.
- "Soft link" is just a file containing a path name.
- Which can point to a file on another filesystem? Which can be "broken"?

More About Processes and Shells

You write a script to change directories. When you run it, what happens?
 Why?

(Does this also explain why man cd gives you the man page for a shell?)

• What's the difference between "executing" a shell script and "sourcing" it?

Slide 4

Slide 3

CSCI 3294 March 29, 2006

Miscellaneous Useful Tips

• Recall many things you can do to replay commands from command history.

- Recall pushd and popd.
- If you know a lot of editor tricks, but only a few shell tricks, consider using editor to build temporary scripts. (Example(s).)

Slide 5

Minute Essay

• None — sign in.

Slide 6