

Network Programming

Libraries

Note: This class lecture will be recorded!

If you do not consent to this recording, please do not ask questions via your video, audio or public chat; send your question to the instructor using the private chat.

Lisa Frye, Instructor

frye@Kutztown.edu

Kutztown University

Generic Functions

- ▶ What are the advantages of writing generic functions for common tasks?

Libraries

- ▶ What is a library on UNIX?
- ▶ Types of libraries
 - ▶ Static
 - ▶ Shared or Dynamic

Static Libraries

- ▶ ar command
- ▶ ranlib command
 - ▶ Older systems only
- ▶ Link with -L at compile time

Shared Libraries

- ▶ Position Independent Code (PIC)
- ▶ Compile library object code
 - ▶ -fPIC or -fpic
- ▶ Create shared library
 - ▶ -G or -shared
- ▶ LD_LIBRARY_PATH

Defaults

- ▶ Shared
- ▶ Compiler options for link phase
 - ▶ -static / -shared (common)
 - ▶ -Wl, -Bstatic / -Wl, -Bdynamic (some systems)
 - ▶ -Wl, -static -llibname -Wl, -Bdynamic
- ▶ *nm* command

Assignment

▶ See D2L