

# Launching a Thread Exercises

# Hello thread program

- Compile and run the "hello thread" program
- Rewrite the "Hello thread" program so that the thread entry point is
  - A functor (a class with an overloaded () operator)
  - A lambda expression
  - A member function of a class

# Thread function with arguments

- Write a program with a thread that receives two ints, prints their values and displays their sum
- Use
  - A regular function
  - A functor
  - A lambda expression
- Test your program for all three cases

# Thread function with reference arguments

- Write a program with a thread that receives an int by reference, and doubles it. The main() function then displays the new value
- Use
  - A regular function
  - A functor
  - A lambda expression
- Test your program for all three cases

# Thread function with pass by move

- Write a program with a thread that receives an int by move, and prints it out. The main() function then displays the value of the moved-from string.
- Use
  - A regular function
  - A functor
  - A lambda expression
- Test your program for all three cases
- Are there any issues with this program?