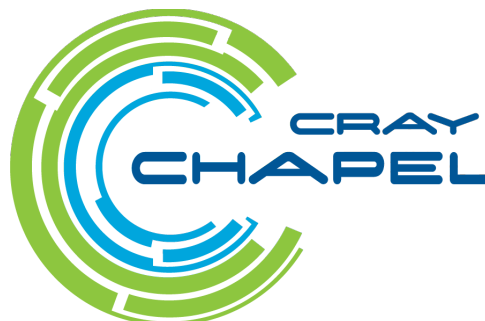


# Hands-On 2:

## Multi-Producer / Consumer Bounded Buffer (task parallelism)





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# Goal: Make Bounded Buffer Code Better

## We're providing:

- a single-producer, single-consumer bounded buffer code
  - `boundedBuffer.chpl`

## Your goal is to:

- extend this code to support multiple producers and consumers
  - producers: each produce a fraction of the range  $0..\#\text{numItems}$
  - consumers: consume from the bounded buffer greedily
- work involves:
  - creating multiple producer and consumer tasks
  - coordinating their accesses to the head / tail values of the buffer



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