

Hands-On II:

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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