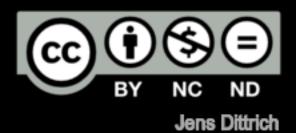
The Batch Pattern



```
given:
```

set of items

function f(item) to apply to each item

solution:

collect k items (batch them)

then apply modified f() on all items in batch simultaneously

The Batch Pattern

advantages:

might be cheaper to apply f() on a set of items

drawbacks:

delays processing of individual items

implementation hints:

must limit time delay (latency) for individual item

The Batch Pattern

advantages:

might be cheaper to apply f() on a set of items

drawbacks:

delays processing of individual items

implementation hints:

must limit time delay (latency) for individual item

must find sweet spot: latency vs. throughput

20, pt 2/01 0/2/2/3/9/

Latency versus Throughput

