

A blue speech bubble with a white outline and a small tail pointing towards the bottom right. The word "DONE" is written in white, bold, capital letters in the center of the bubble.

DONE



A blue speech bubble with a white question mark and the word 'ORDER?' inside.

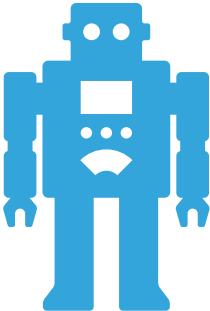
ORDER?



CENTRALBURGER INC. - PARALLEL, IN ORDER EXECUTION

16







waiter











Prizzen Owen

Burgherrin

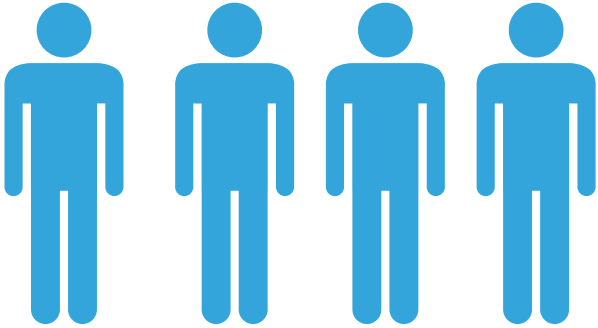




conference machine







- ▶ One customer¹ after another (in order)
- ▶ Each part of the order ² executed in parallel

I.e. burger and coffee prepared at the same time

- ▶ **PRO: Faster bc. of better resource utilisation.**
- ▶ **CON: Still not perfect, more complex**

▶ Decode instruction into μ OPs

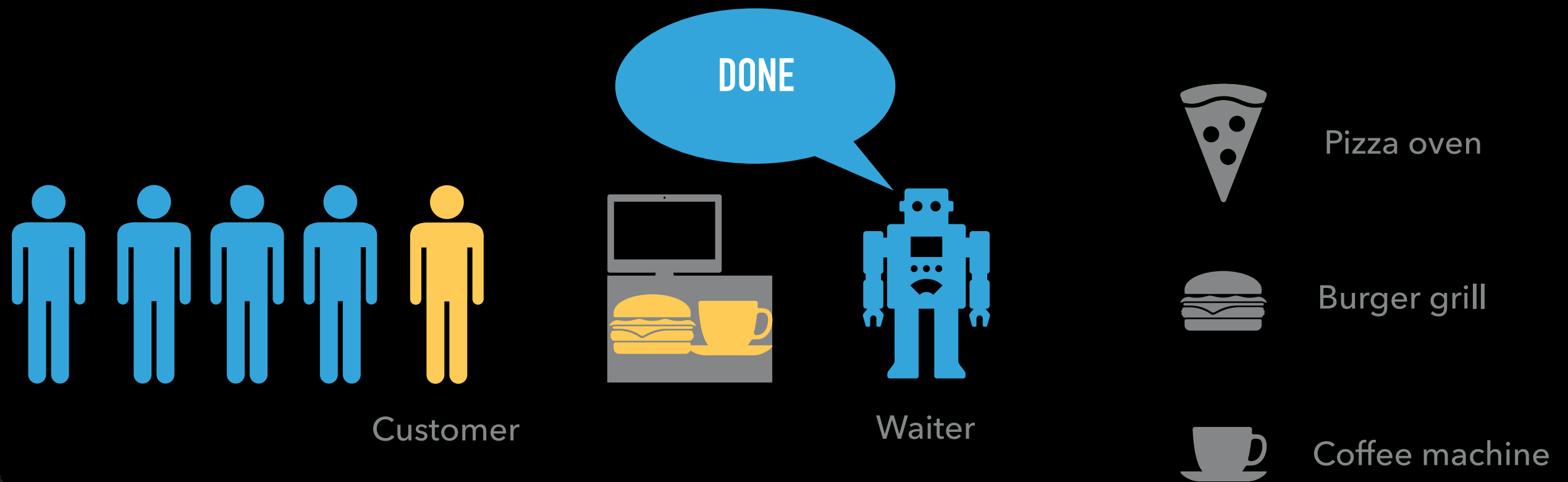
► Schedule pops

▶ run 1st μOP and 2nd μOP (parallel execution of μOP s)

► retire instruction (customer)

- ▶ Decode instruction into μ OPs
- ▶ Schedule μ OPs
 - ▶ run 1st μ OP and 2nd μ OP (parallel execution of μ OPs)
- ▶ retire instruction (customer)

CONFIDENTIAL BURGERS INC. : PARALLEL, IN ORDER EXECUTION

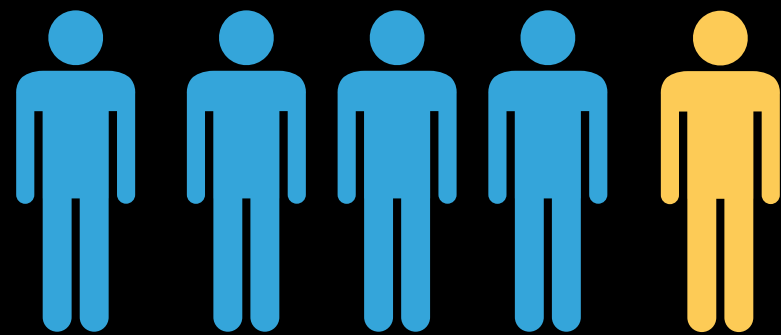


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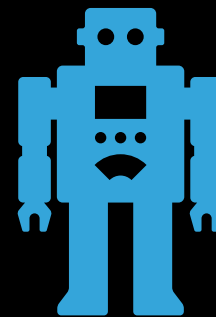
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CONFIDENTIAL BURGERS INC. : PARALLEL, OUT OF ORDER EXECUTION



Customer



Waiter



Pizza oven



Burger grill



Coffee machine