





DONE



A blue speech bubble with a white question mark and the word 'ORDER?' inside. The bubble is oriented horizontally and has a small tail pointing towards the bottom right.

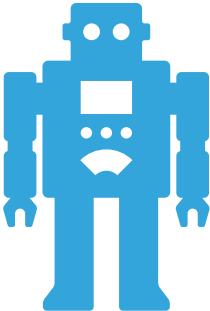
ORDER?



CONFIDENTIALBURGER: PARALLEL, IN ORDER EXECUTION

16







waiter











Prizzen
Ovben

Burgherrin

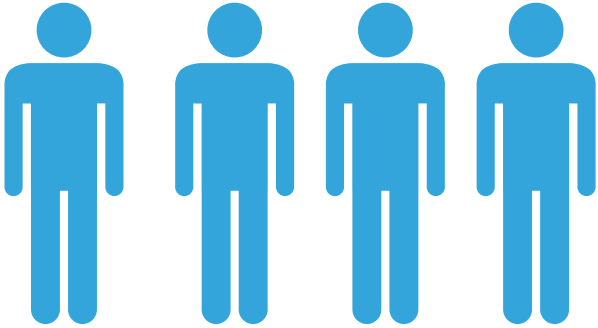




conference machine







- ▶ 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

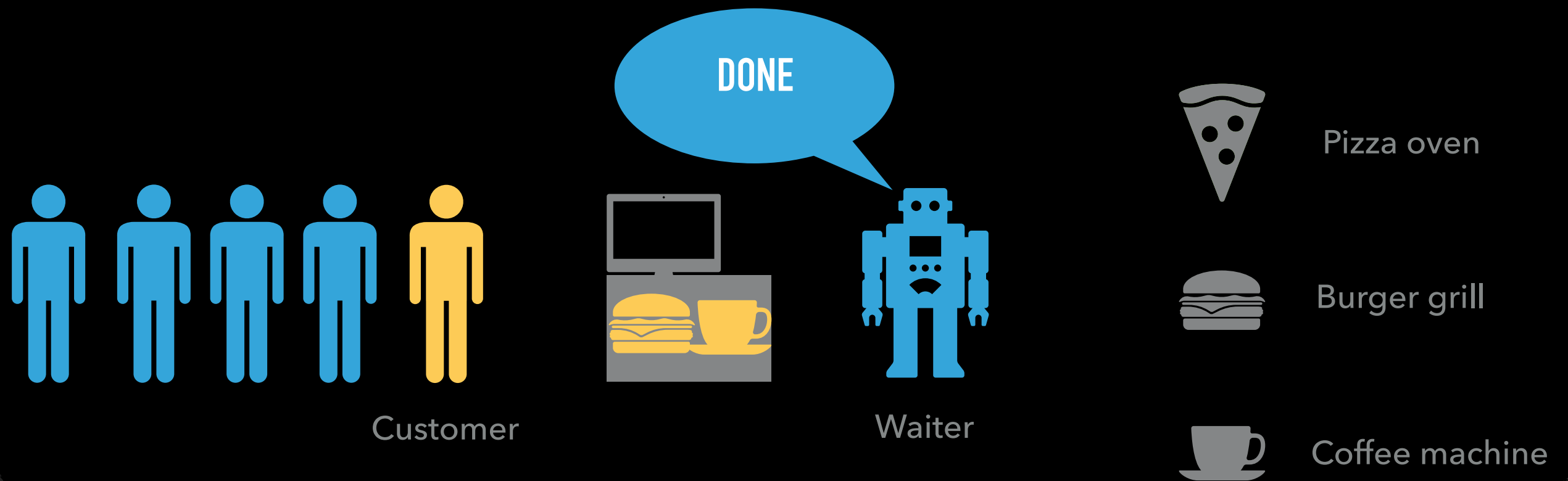
► Schedule pops

▶ 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

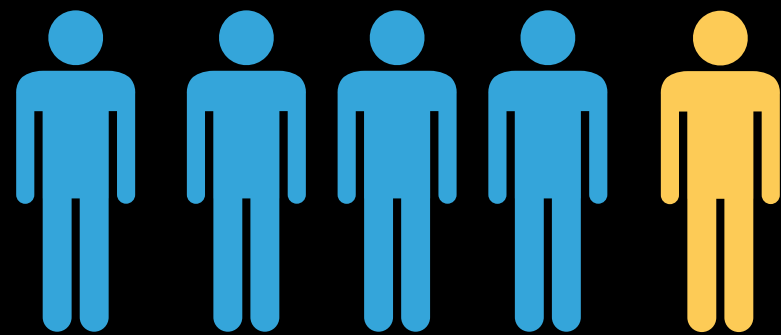


- ▶ One customer¹ after another (in order)
- ▶ Each part of the order ² executed in parallel

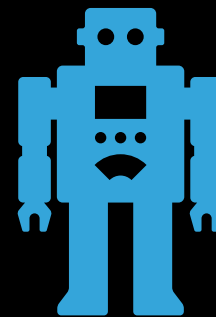
I.e. burger and coffee prepared at the same time

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

CONFIDENTIAL BURGERS INC. : PARALLEL, OUT OF ORDER EXECUTION



Customer



Waiter



Pizza oven



Burger grill



Coffee machine