

# Protocol for OLVA (RTD)

## Trace 1

time	qual.
1	100
2	60
7	<u>55</u>
22	51

## Trace 2

time	qual.
1	200
3	50
8	40
20	35
25	34
28	33

... many

traces!

At least 10

100 is

better.

$$sq(10, 1) = 55$$

time trace #

$$(r \leq 10, q \leq 50)$$

$$sq(10, 2) = 40$$

$\Rightarrow$  proba 1/2  
for our 2 traces.

Th. Greedy is a 2-approx. algo.

$MS_{\text{greedy}}$  - Makespan obtained by "greedy"  
 $MS_{\text{opt}}$   $\rightarrow$  optimal Makespan

$$MS_{\text{opt}} \leq MS_{\text{greedy}} \leq 2 \cdot MS_{\text{opt}}$$

$\uparrow$  by def. of opt.  
 $\uparrow$  what we want to prove

