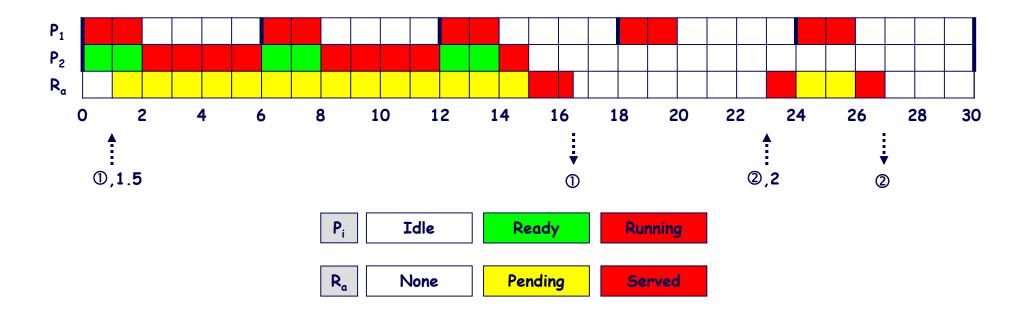
SERVIZIO IN BACKGROUND ...

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

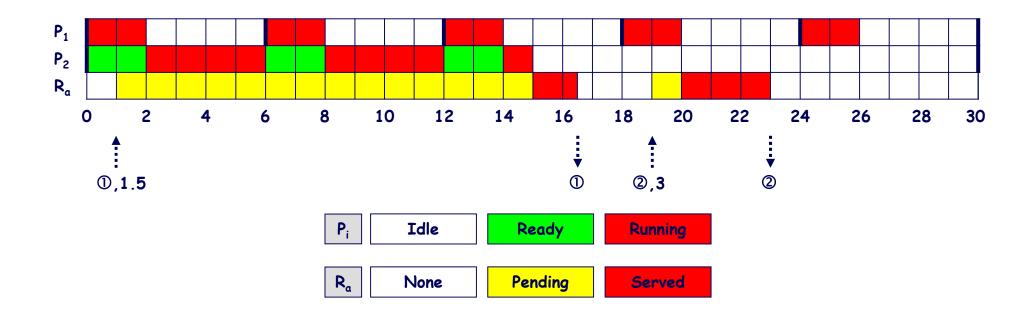
	a [ms]	s [ms]
R_{a1}	1	1.5
R _{a2}	23	2



SERVIZIO IN BACKGROUND

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R_{a1}	1	1.5
R _{a2}	19	3



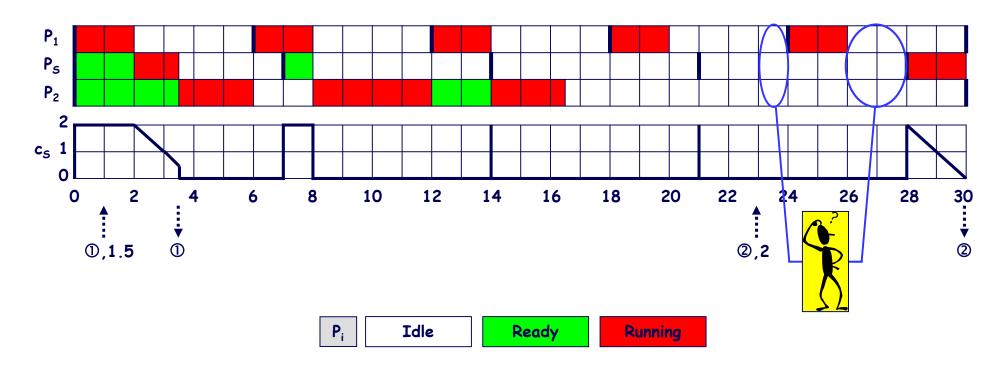
SERVIZIO TRAMITE POLLING SERVER ...

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

strategia di schedulazione: RMPO

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2

 $P_{s}: T_{s} = 7 \text{ ms}, C_{s} = 2 \text{ ms}$



... SERVIZIO TRAMITE POLLING SERVER ...

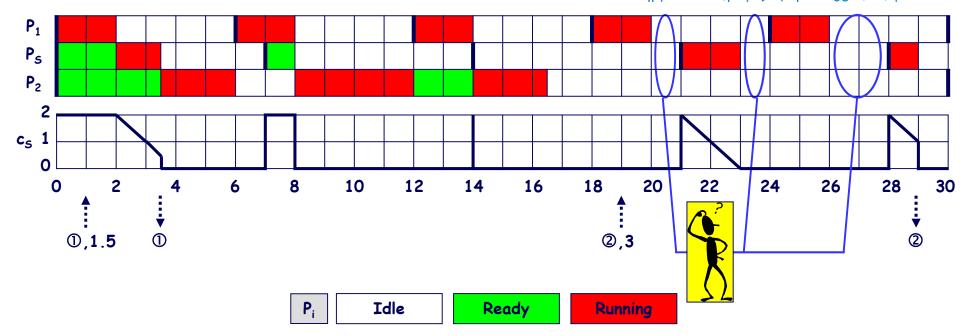
$\boldsymbol{A_1}$	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

strategia di schedulazione: RMPO

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3

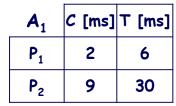
 $P_s: T_s = 7 \text{ ms}, C_s = 2 \text{ ms}$

istante 28 perche' pi risulta essere idle



... SERVIZIO TRAMITE POLLING SERVER ...

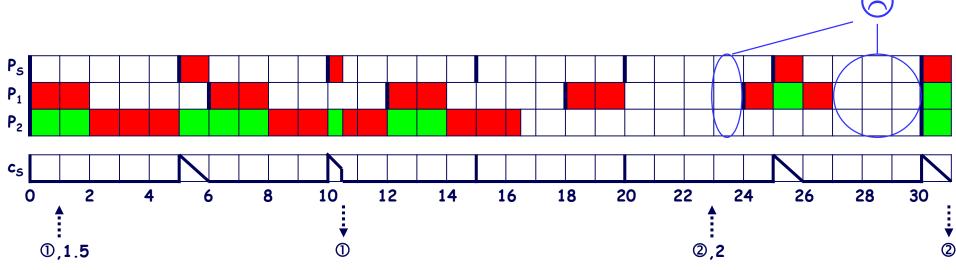
Server a massima priorità:



strategia di schedulazione: RMPO

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2

 $P_{S}: T_{S} = 5 \text{ ms}, C_{S} = 1 \text{ ms}$ server ridimensionato a 1 ms



Idle Ready Running

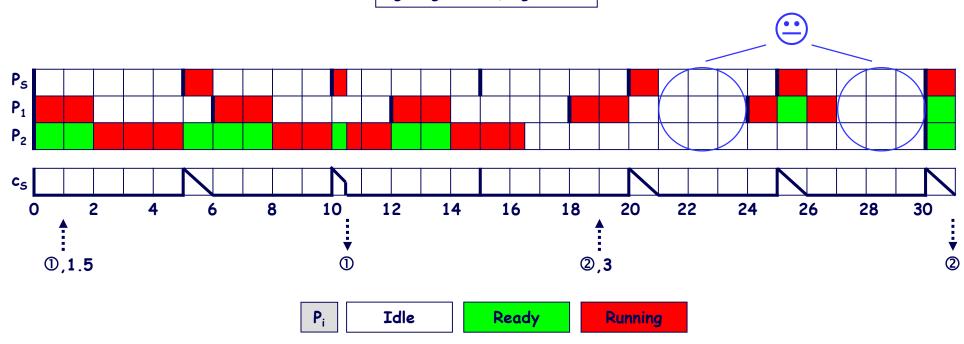
... SERVIZIO TRAMITE POLLING SERVER ...

Server a massima priorità:

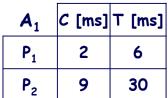
A ₁	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3

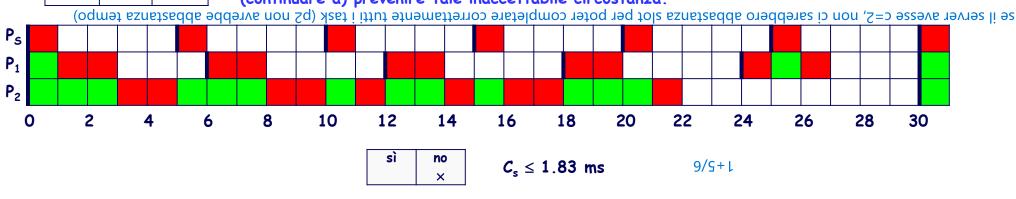
$$P_{s}: T_{s} = 5 \text{ ms}, C_{s} = 1 \text{ ms}$$

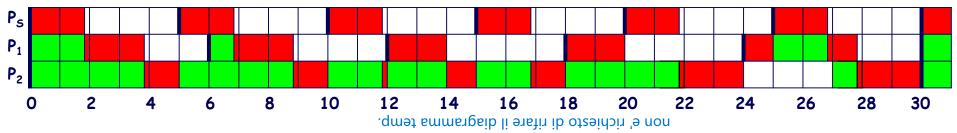


... SERVIZIO TRAMITE POLLING SERVER



Si verifichi se, indipendentemente dalla effettiva distribuzione temporale e dal tempo di servizio delle richieste aperiodiche, la loro gestione tramite Polling Server (T_s = 5 ms, $C_s = 1$ ms) compromette o meno la schedulabilità dei due processi P_1 e P_2 , identificando nell'uno o nell'altro caso il valore massimo che C_s può assumere, a parità di T_s , onde (continuare a) prevenire tale inaccettabile circostanza.







$$U_s \le (N+1)(2^{1/(N+1)}-1)-U_p = \ln 2 - U_p$$

$$U_s \le \frac{2}{(1 + U_p/N)^N} - 1 = \frac{2}{e^{U_p}} - 1$$

$$C_{\rm s} \leq 0.78$$
 ms

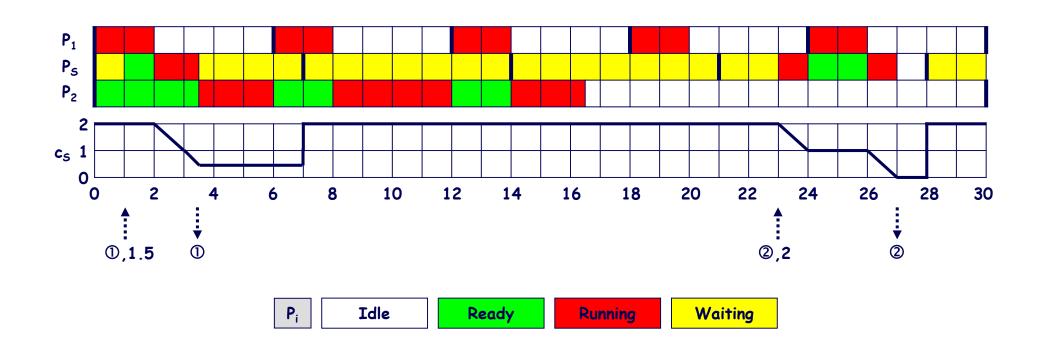
 $C_{\rm s} \leq 0.73~{\rm ms}$

SERVIZIO TRAMITE DEFERRABLE SERVER ...

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2

$$P_{s}: T_{s} = 7 \text{ ms}, C_{s} = 2 \text{ ms}$$

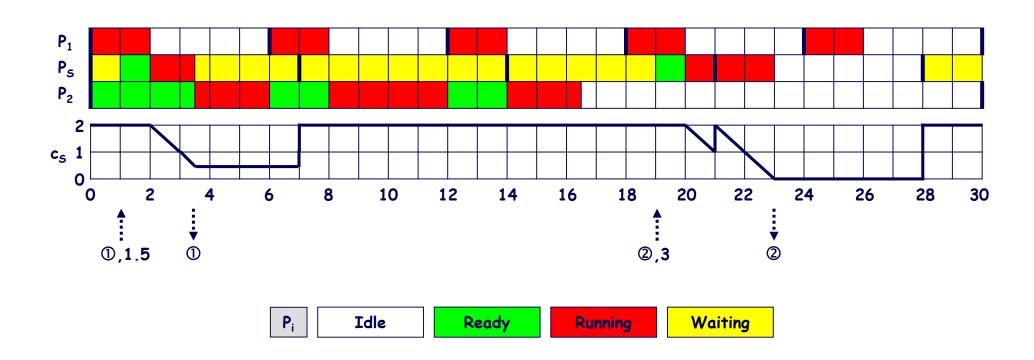


SERVIZIO TRAMITE DEFERRABLE SERVER ...

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3

$$P_{s}: T_{s} = 7 \text{ ms}, C_{s} = 2 \text{ ms}$$



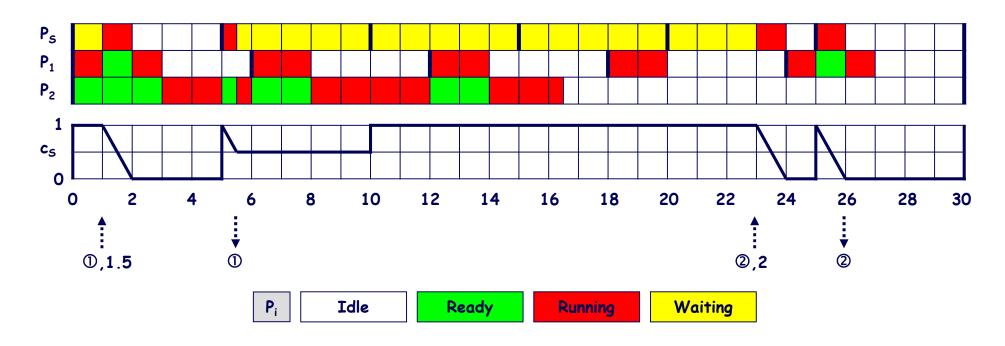
... SERVIZIO TRAMITE DEFERRABLE SERVER ...

Server a massima priorità:

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2

$$P_{s}: T_{s} = 5 \text{ ms}, C_{s} = 1 \text{ ms}$$



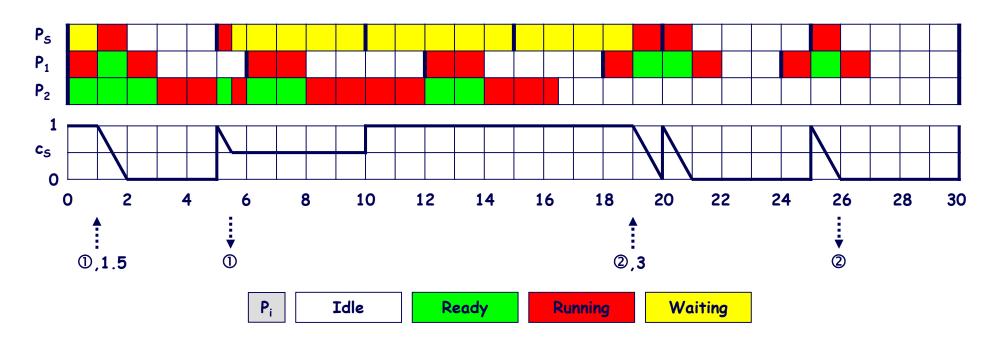
... SERVIZIO TRAMITE DEFERRABLE SERVER

Server a massima priorità:

A ₁	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3

$$P_s : T_s = 5 \text{ ms}, C_s = 1 \text{ ms}$$



SERVIZIO TRAMITE PES ...

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

$P_s: T_s = 7$	ms, $C_S = 2$ ms
----------------	------------------

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2



... SERVIZIO TRAMITE PES ...

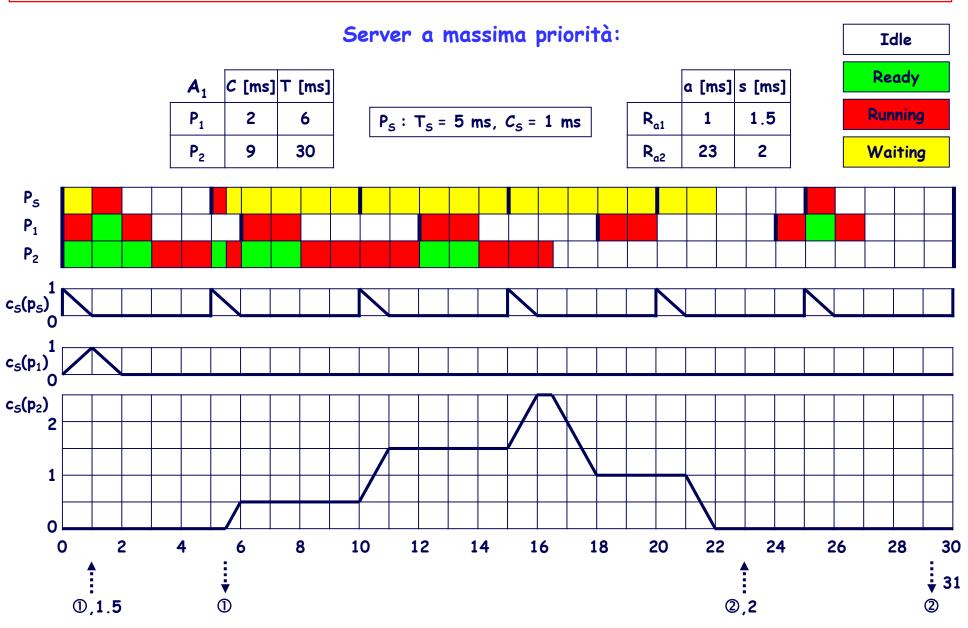
A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

$P_{s}: T_{s} = 7 \text{ ms}, C_{s} = 2 \text{ ms}$

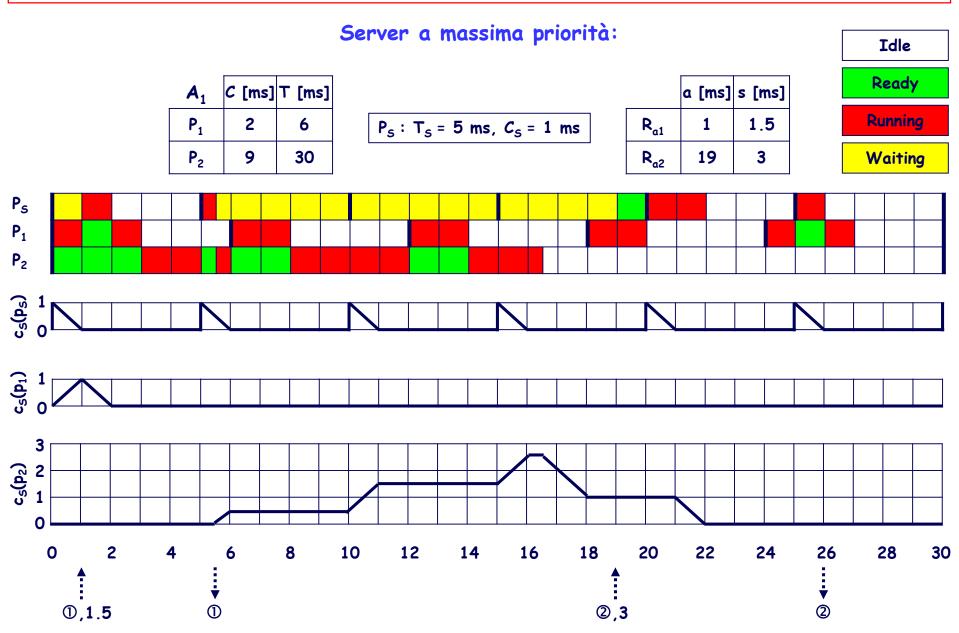
	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3



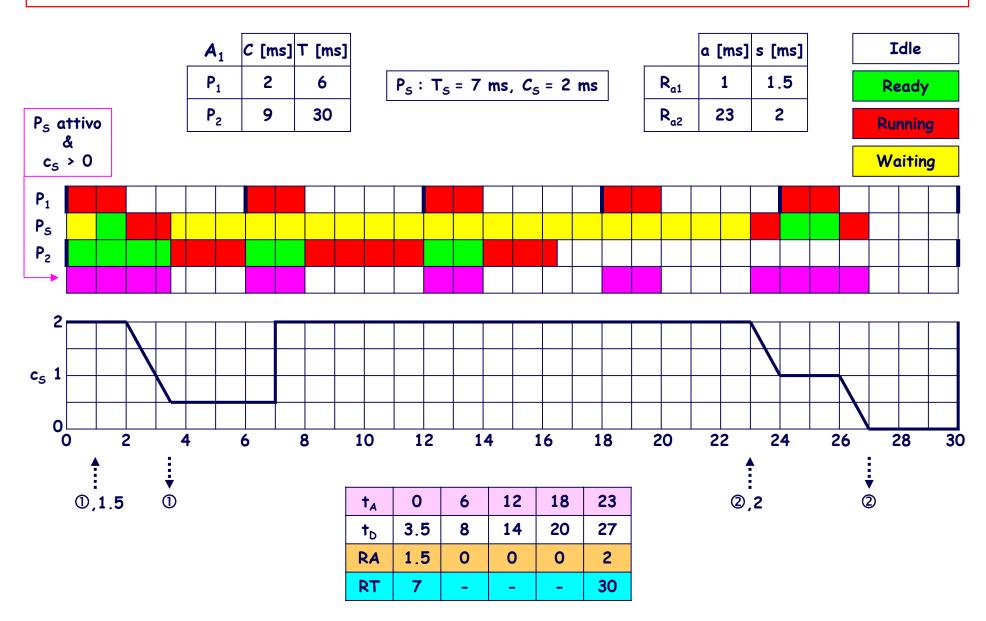
... SERVIZIO TRAMITE PES ...



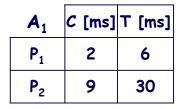
... SERVIZIO TRAMITE PES



SERVIZIO TRAMITE SS ...



SERVIZIO TRAMITE SS ...



 P_{S} attivo ઢ

$P_{s}: T_{s} = 7 \text{ ms}, C_{s} = 2 \text{ r}$
--

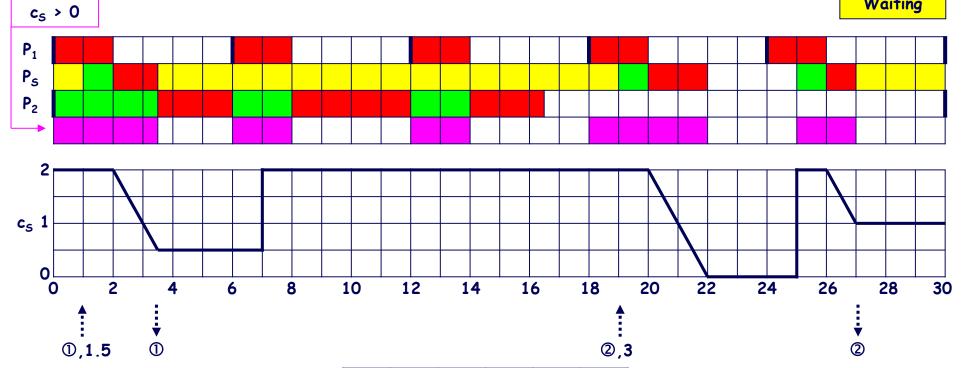
	a [ms]	s [ms]
R_{a1}	1	1.5
R _{a2}	19	3

Idle

Ready

Running

Waiting



† _A	0	6	12	18	25
† _D	3.5	8	14	22	27
RA	1.5	0	0	2	1
RT	7	-	-	25	32

... SERVIZIO TRAMITE SS ...

Server a massima priorità:

A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

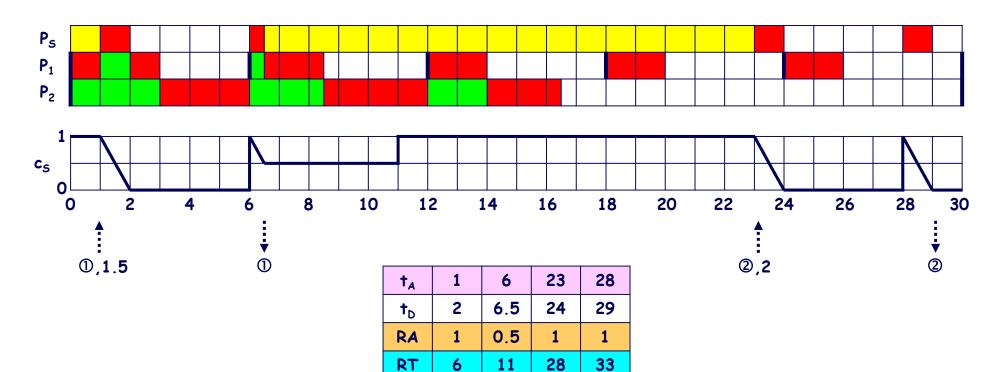
$$P_{S}: T_{S} = 5 \text{ ms}, C_{S} = 1 \text{ ms}$$

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	23	2

Ready	
Running	

Idle

Waiting



... SERVIZIO TRAMITE SS

Server a massima priorità:

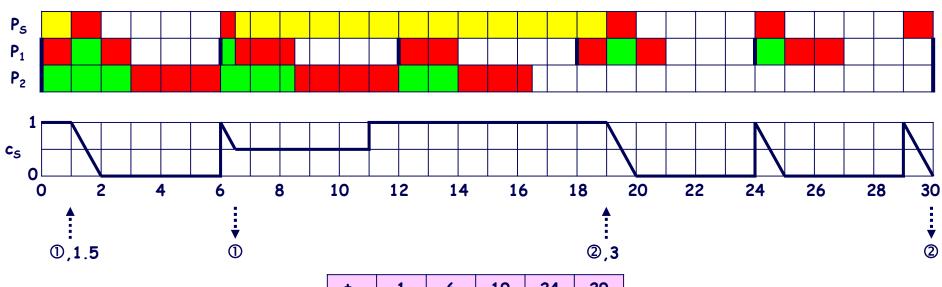
A_1	C [ms]	T [ms]
P ₁	2	6
P ₂	9	30

$P_{s}: T_{s} = 5 \text{ ms}, C$	$C_{\rm S} = 1 \text{ms}$
----------------------------------	----------------------------

	a [ms]	s [ms]
R _{a1}	1	1.5
R _{a2}	19	3

Ready
Running
Waiting

Idle



† _A	1	6	19	24	29
† _D	2	6.5	20	25	30
RA	1	0.5	1	1	1
RT	6	11	24	29	34