

Primo caso: No pins No times costraints

Pins:

Node Name	Direction	Location	I/O Bank	VREF Group	Fitter Location	I/O Standard	Reserved	Current Strength	Slew Rate	Differential Pair	Transceiver Analog Settings Protocol	VCCT_C	I/O Pin
Y	Output				PIN_AD25	2.5 V (default)		12mA (default)	1 (default)				
B	Input				PIN_AC25	2.5 V (default)		12mA (default)					
A	Input				PIN_AH28	2.5 V (default)		12mA (default)					
<<new node>>													

SDC1.sdc:

Commentato righe 96 e 97:

```
#set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 10.000
#set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 10.000
```

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	5.737			5.835
2	B	Y	5.965			6.162

Secondo caso: No pins Times Costraints

SDC1.sdc:

```
set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 20.000
set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 20.000
```

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	6.058			6.115
2	B	Y	6.165			6.325

SDC1.sdc:

```
set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 20.000
#set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 20.000
```

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	6.058			6.115
2	B	Y	6.165			6.325

SDC1.sdc:

```
set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 10.000
set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 10.000
```

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	5.660			5.751
2	B	Y	5.644			5.754

```
SDC1.sdc:
    set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 5.000
    set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 5.000
```

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	8.037			8.425
2	B	Y	8.083			8.474

Terzo caso: Pin settati No timing constrains

```
SDC1.sdc:
    #set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 20.000
    #set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 20.000
```

Node Name	Direction	Location	I/O Bank	REF Group	Fitter Location	Standby	Reserved	Current Strength	Drive Rate	Predefined
A	Input	PIN_AF4	3A	B3A_NO	PIN_AA18	2.5 ...ult)		12m...lt)		
B	Input	PIN_AF5	3A	B3A_NO	PIN_Y17	2.5 ...ult)		12m...lt)		
Y	Output				PIN_AK22	2.5 ...ult)		12m...lt)	1 (...lt)	
<<next>>										

Chip Planner - C:/Users/criri/Politecnico Di Torino Studenti Dropbox/Cristina Rizzo/MagistralePolito/1Anno/1Semestre/ElectronicsForEmbeddedSys

Edit View Tools Window Help

Report

Coordinate: (8, 0)

Editing Mode

Report not available

Tasks

Generate

Toggle

Report Results

Report Constraints

Mark Selection

Core Report

Report

Report

Rapid Report

Show

Show

Show

Clock Report

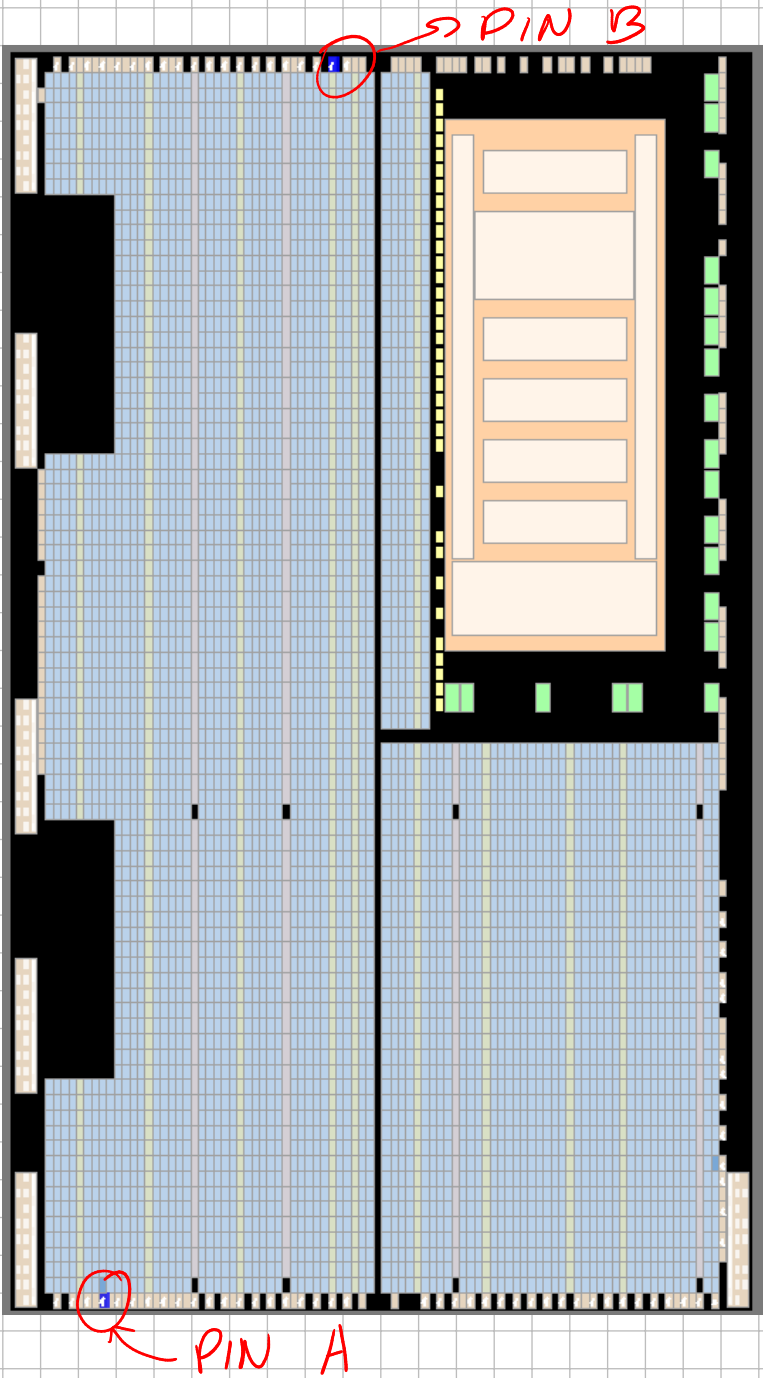
Report

Report

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	7.018			7.224
2	B	Y	6.567			6.770

Quarto caso: Pin settati lontani No timing constrains

```
SDC1.sdc:
#set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 20.000
#set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 20.000
```



Node Name	Direction	Location	I/O Bank	REF Gro	er Locat	) Stand	Reserve	ent Stre	ilew Rat	arential	ialog Se	VCCT_C	I/O Pin	ted I
A	Input	PIN_AD9	3A	B3A_NO	PL...D9	2.5 V		12m...lt)						
B	Input	PIN_C13	8A	B8A_NO	PIN_C13	2.5 V		12m...lt)						
Y	Output				PL...10	2.5 ...ult)		12m...lt)	1 (...lt)					

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	7.009			7.351
2	B	Y	9.368			10.003

Quinto caso: Pin settati lontani Timing costraints

SDC1.sdc:

```
set_max_delay -from [get_ports {A}] -to [get_ports {Y}] 5.000
set_max_delay -from [get_ports {B}] -to [get_ports {Y}] 20.000
```

Node Name	Direction	Location	I/O Bank	REF Group	IO Standard	IO Voltage	IO Width	IO Rate	IO Type	IO Mode	IO Pin	IO Bank
A	Input	PIN_AD9	3A	B3A_NO	PL...D9	2.5 V	12m...lt)					
B	Input	PIN_C13	8A	B8A_NO	PIN_C13	2.5 V	12m...lt)					
Y	Output				PL...10	2.5 ...ult)	12m...lt)	1 (...lt)				

Propagation Delay						
	Input Port	Output Port	RR	RF	FR	FF
1	A	Y	6.507			6.703
2	B	Y	9.754			10.595