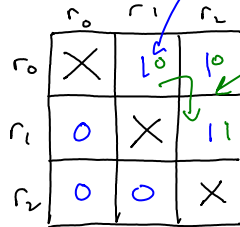


# Arbitration & Paper Discussions

Tuesday, March 16, 2010  
10:15

Matrix Arbitrator



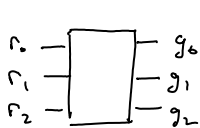
$r_0$  draws priority over  $r_1$

- when granted, clear all bits in row  $k$  and set all bits in col  $k$

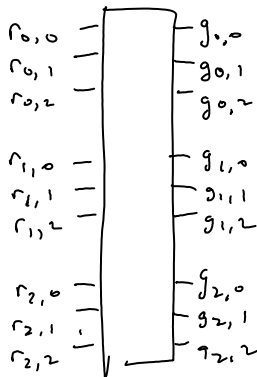
- this makes it lowest priority

			requests			grant signals			priority
	$r_0$	$r_1$	$r_0$	$r_1$	$r_2$	$g_0$	$g_1$	$g_2$	
1	1	1	1	1	0	1	1	0	$r_0 > r_1 > r_2$
0	0	1	1	1	0				$r_1 > r_2 > r_0$

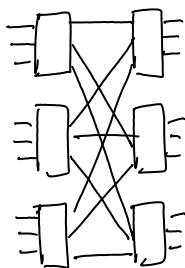
What about allocators?



more complicated  $\Rightarrow$



which is better?



this one may not know

## Mullins Paper

$\rightarrow$  big point  $\rightarrow$  use speculation to decrease router latency

## Kim Paper