

## Input Byte **IB**

31	26	25	21	20	16	15	11	10	0
COP2						0		IB	
0 1 0 0 1 0						0 0 0 0 0		0 0 0 1 1	
rd						0			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
6						5		5	
						11			

Format: IB rd

Description: input byte as signed number to rd

Operation: while (input\_fifo is empty) nop  
rd  $\leftarrow$  sign\_extend( input\_fifo.shift() )

## Input Byte Unsigned **IBU**

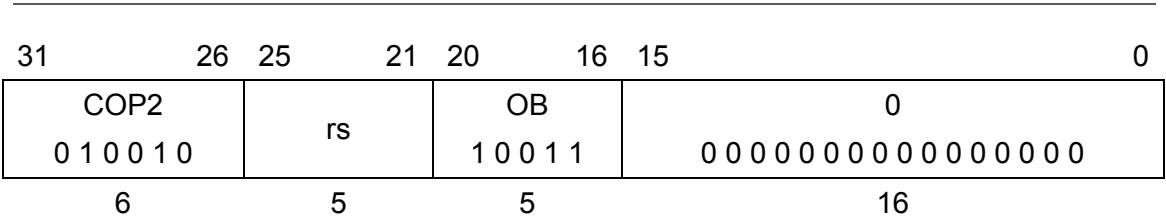
31	26	25	21	20	16	15	11	10	0
COP2						0		IBU	
0 1 0 0 1 0						0 0 0 0 0		0 1 0 1 1	
rd						0			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
6						5		5	
						11			

Format: IBU rd

Description: input byte as unsigned number to rd

Operation: while (input\_fifo is empty) nop  
rd  $\leftarrow$  zero\_extend( input\_fifo.shift() )

Output Byte **OB**

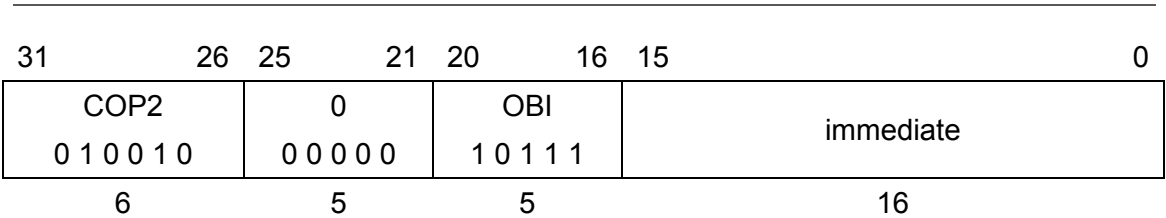


Format: OB rs

Description: output lowest byte of rs

Operation: while (output\_fifo is full) nop  
output\_fifo.push( rs[7..0] )

Output Byte Immediate **OBI**



Format: OBI *value*

Description: output lower byte of immediate value

Operation: while (output\_fifo is full) nop  
output\_fifo.push( immediate[7..0] )