

								_		1,000.000 ns
Name	Value	0.000 ns	100.000 ns	200.000 ns	300.000 ns	400.000 ns	500.000 ns	600.000 ns   700.000 ns	s  800.000 ns	900.000 ns
> <b>™</b> a[3:0]	6	0	X	1		2	3	4		5 8
> <b>W</b> b[3:0]	4	(1)(3)(6)(7)	a c ef 2	4\6\8\a\c\	e f 1 6	8 \a\\c\\e\\0\	2\\4\\6\\8\\a\	e e f 1 3 5 8 a	0 2 4 6	8 a c e 0 2
> <b>W</b> out[7:0]	18	00	X (X.)							
> 💆 i[31:0]	00000006	0000000	)0	00000001	0000	00002	0000003	00000004	0000	
> 💆 j[31:0]	00000004	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					***************************************			

		4																
		4																
Name	Value	0.000 ns	10.000 ns	20.000 ns	30.000 ns	40.000 ns	50.000 ns	60.000 ns	70.000 ns	80.000 ns	90.000 ns	100.000 ns	110.000 ns	120.000 ns	130.000 ns	140.000 ns	150.000 ns	160.00
> 💆 a[3:0]	6									0								1
> <b>W</b> b[3:0]	4	0	1	2	3	4	5	6	7	8	9	a	b	c	d	е	f	0
> <b>W</b> out[7:0]	18									00								
> 💆 i[31:0]	00000006								000	000000								0
> <b>™</b> j[31:0]	00000004	00000000	00000001	00000002	00000003	00000004	00000005	00000006	00000007	00000008	00000009	0000000a	0000000ъ	0000000c	00000009	0000000e	0000000£	0
																		All T
																		ALT T
							4	4		4		4			4			

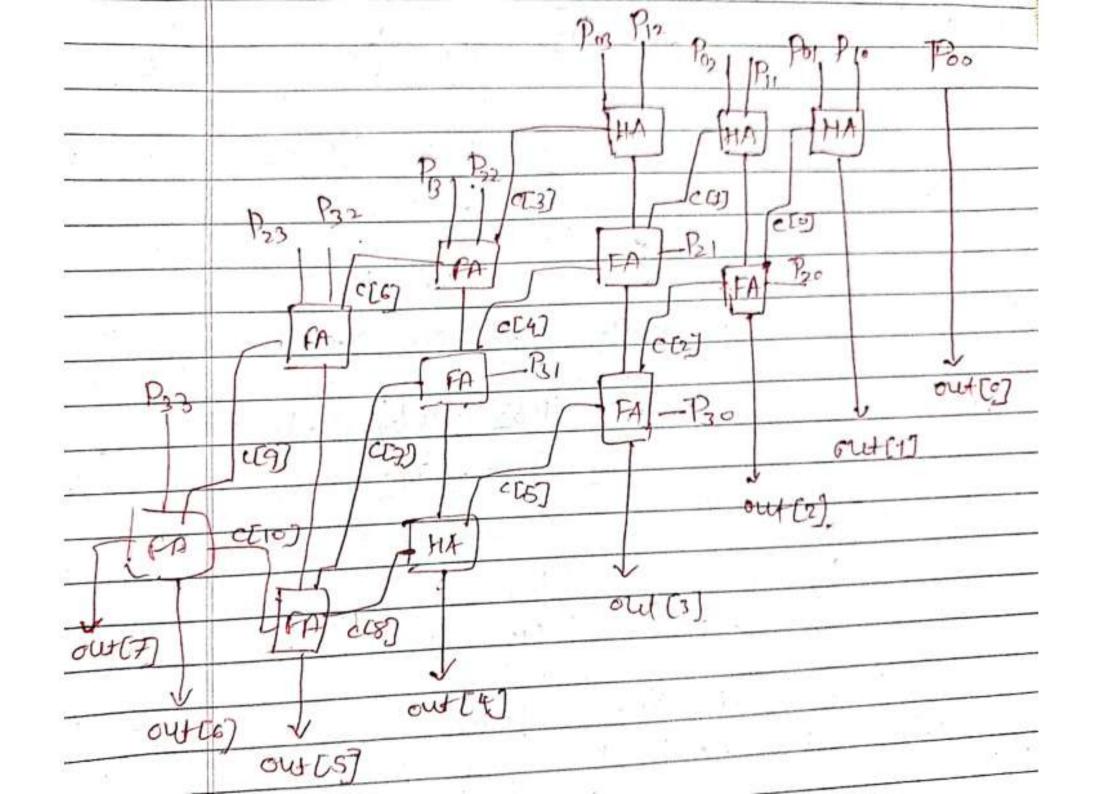
$\neg$
320.
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2,400.	000 ns				2,450.	000 ns		<u> </u>	1	2,500.	000 ns	+		<b></b>	2,550.00
							1	Ē							
0	(1)	2	3	4	5	6	7	8	9	a	<b>b</b>	c	d	е	(f
00	O£	1e	2d	3c	<b>4</b> b	5a	69	78	87	96	<b>a</b> 5	b4	<b>c</b> 3	d2	e1
000000£															
0	0	0	0	0	0	0	0	0	<b>(0</b> )	0	0	0	0	0	0

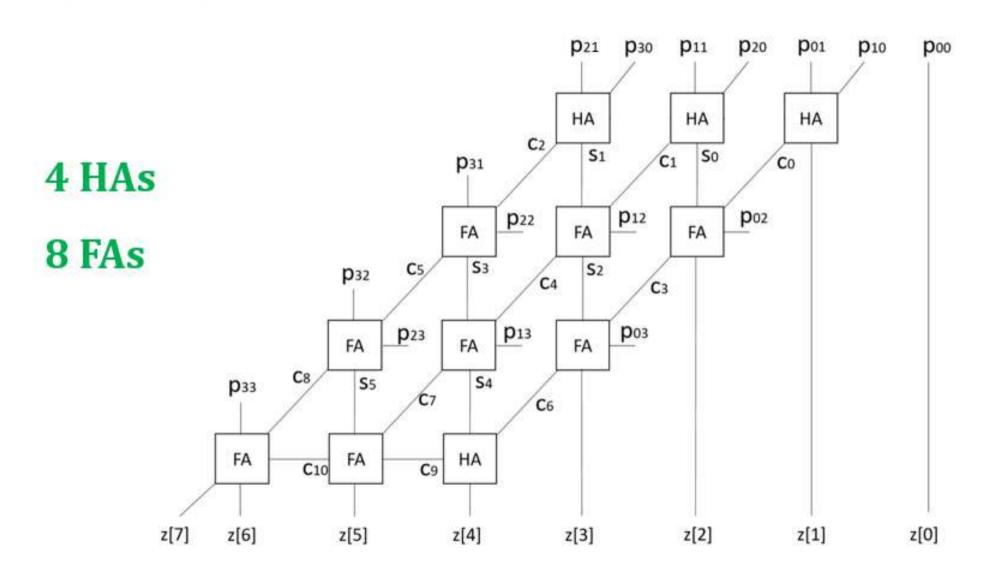
## **Tcl Console** Û Ш ■□■ **\Pi** } else { send\_msg\_id Add\_Wave-1 WARNIN # # } # run 2560ns time a b out Ons , 0000 , 0000 , 00000000 10ns , 0000 , 0001 , 00000000 20ns , 0000 , 0010 , 00000000 30ns , 0000 , 0011 , 00000000 40ns , 0000 , 0100 , 00000000 50ns , 0000 , 0101 , 00000000 60ns , 0000 , 0110 , 00000000 70ns , 0000 , 0111 , 00000000 80ns , 0000 , 1000 , 00000000 90ns , 0000 , 1001 , 00000000 100ns , 0000 , 1010 , 00000000 110ns , 0000 , 1011 , 00000000 120ns , 0000 , 1100 , 00000000 130ns , 0000 , 1101 , 00000000 140ns , 0000 , 1110 , 00000000 150ns , 0000 , 1111 , 00000000 160ns , 0001 , 0000 , 00000000 170ns , 0001 , 0001 , 00000001 180ns , 0001 , 0010 , 00000010 190ns , 0001 , 0011 , 00000011 200ns , 0001 , 0100 , 00000100 210ns , 0001 , 0101 , 00000101 220ns , 0001 , 0110 , 00000110 230ns , 0001 , 0111 , 00000111 240ns , 0001 , 1000 , 00001000 250ns , 0001 , 1001 , 00001001 260ns , 0001 , 1010 , 00001010 270ns , 0001 , 1011 , 00001011 280ns , 0001 , 1100 , 00001100 290ns , 0001 , 1101 , 00001101 300ns , 0001 , 1110 , 00001110 310ns , 0001 , 1111 , 00001111 320ns , 0010 , 0000 , 00000000 330ns , 0010 , 0001 , 00000010 340ns , 0010 , 0010 , 00000100

## **Tcl Console** Û **\Pi** Ш 2220ns , 1101 , 1110 , 10110110 2230ns , 1101 , 1111 , 11000011 2240ns , 1110 , 0000 , 00000000 2250ns , 1110 , 0001 , 00001110 2260ns , 1110 , 0010 , 00011100 2270ns , 1110 , 0011 , 00101010 2280ns , 1110 , 0100 , 00111000 2290ns , 1110 , 0101 , 01000110 2300ns , 1110 , 0110 , 01010100 2310ns , 1110 , 0111 , 01100010 2320ns , 1110 , 1000 , 01110000 2330ns , 1110 , 1001 , 011111110 2340ns , 1110 , 1010 , 10001100 2350ns , 1110 , 1011 , 10011010 2360ns , 1110 , 1100 , 10101000 2370ns , 1110 , 1101 , 10110110 2380ns , 1110 , 1110 , 11000100 2390ns , 1110 , 1111 , 11010010 2400ns , 1111 , 0000 , 00000000 2410ns , 1111 , 0001 , 00001111 2420ns , 1111 , 0010 , 00011110 2430ns , 1111 , 0011 , 00101101 2440ns , 1111 , 0100 , 00111100 2450ns , 1111 , 0101 , 01001011 2460ns , 1111 , 0110 , 01011010 2470ns , 1111 , 0111 , 01101001 2480ns , 1111 , 1000 , 01111000 2490ns , 1111 , 1001 , 10000111 2500ns , 1111 , 1010 , 10010110 2510ns , 1111 , 1011 , 10100101 2520ns , 1111 , 1100 , 10110100 2530ns , 1111 , 1101 , 11000011 2540ns , 1111 , 1110 , 11010010 2550ns , 1111 , 1111 , 11100001 INFO: [USF-XSim-96] XSim completed. INFO: [USF-XSim-97] XSim simulation ☐ launch simulation: Time (s): cpu = 0 close\_sim INFO: [Simtcl 6-16] Simulation close close design

	Array multipuer Date.
100	
	b3 b1 hn
	C13 C2 C4 C10
-	Gobs Gobs Gobs Goba
	91b3 91b2 (11b) 91b0 x
	92b3 92b2 92by 92b0 X X
	43b343b2 43b1 43b0 X X X
	014[7] out[6] out[5] out[4] out[3] out[2] out[6]



## **Array Multiplier**



4-bit array multiplier block diagram