Test Case 5: Alternate write and read operations

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[2024-09-07 10:18:54 UTC] iverilog '-wall' '-g2012' design.sv testbench.sv && unbuffer vvp a.out
VCD info: dumpfile fifo_test.vcd opened for output.
Time: 0 | wr: 0 | rd: 0 | FIFO Memory: xx xx xx xx xx xx xx xx xx | Full: x | Empty: x | Valid: x | Overflow: x | Underflow: x
Time: 5 | wr: 0 | rd: 0 | FIFO Memory: xx | Full: 0 | Empty: x | Valid: x | Overflow: 0 | Underflow: x
Time: 7 | wr: 0 | rd: 0 | FIFO Memory: xx xx xx xx xx xx xx xx xx | Full: 0 | Empty: 1 | Valid: 0 | Overflow: 0 | Underflow: 0
Test Case 1: Fill FIFO
Time: 30 | wr: 1 | rd: 0 | FIFO Memory: xx | Full: 0 | Empty: 1 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 35 | wr: 1 | rd: 0 | FIFO Memory: 24 xx xx xx xx xx xx xx xx xx | Full: 0 | Empty: 1 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 45 | wr: 1 | rd: 0 | FIFO Memory: 24 81 xx xx xx xx xx xx xx | Full: 0 | Empty: 1 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 55 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 xx xx xx xx xx x x | Full: 0 | Empty: 1 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 63 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 xx xx xx xx xx x x | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 65 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 xx xx xx xx | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 75 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d xx xx xx | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 85 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d xx xx | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 95 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 xx | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 105 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Test Case 2: Write when FIFO is full
Time: 110 | wr: 0 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 120 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 125 | wr: 1 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Test Case 3: Empty FIFO
Time: 130 | wr: 0 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 135 | wr: 0 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 140 | wr: 0 | rd: 1 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 147 | wr: 0 | rd: 1 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 175 | wr: 0 | rd: 1 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Test Case 4: Read when FIFO is empty
Time: 220 | wr: 0 | rd: 0 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 230 | wr: 0 | rd: 1 | FIFO Memory: 24 81 09 63 0d 8d 65 12 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
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Time: 240   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 245   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 250   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 260   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 270   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 273   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 280   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 287   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 290   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 300   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 310   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 315   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 320   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 329   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 330   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 340   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 350   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 357   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$ Underflow: 0					
Time: 360   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 370   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$ Underflow: 0					
Time: 371   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 380   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 390   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 399   wr: 0   rd: 1   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Test Case 6: Fill FIFO, then read and write simultaneously						
Time: 400   wr: 0   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0						
Time: 410   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0   Underflow: 0					
Time: 413   wr: 1   rd: 0   FIFO Memory: 24 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 455   wr: 1   rd: 0   FIFO Memory: aa 81 09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 465   wr: 1   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 475   wr: 1   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 1   Underflow: 0					
Time: 490   wr: 0   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 1   Underflow: 0					
Time: 495   wr: 0   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0   Underflow: 0					
Time: 500   wr: 0   rd: 1   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1						
Time: 510   wr: 0   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1						
Time: 520   wr: 1   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1						
Time: 525   wr: 1   rd: 0   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1						
Time: 530   wr: 1   rd: 1   FIFO Memory: aa e5 09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 1   Underfwave					

Time: 539	wr: 1   rd: 1	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 540	wr: 0   rd: 1	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 545	wr: 0   rd: 1	FIFO Memory: aa e5 C	09 63 0d 8d 65 12   Full: 1	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$	Underflow: 0
Time: 550	wr: 0   rd: 0	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 553	wr: 0   rd: 0	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 555	wr: 0   rd: 0	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 560	wr: 1   rd: 0	FIFO Memory: aa e5 0	09 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 565	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 570	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 63 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 575	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 580	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 581	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$	Underflow: 0
Time: 590	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$	Underflow: 0
Time: 595	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 600	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 605	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 610	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 620	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	$\mid$ Empty: 0 $\mid$ Valid: 0 $\mid$ Overflow: 1 $\mid$	Underflow: 0
Time: 623	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 625	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$	Underflow: 0
Time: 630	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 635	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 0	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 0 $\mid$	Underflow: 0
Time: 637	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 640	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 0d 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 645	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 e8 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 650	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 8d 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 651	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 8d 65 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 655	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 660	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 665	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 670	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 679	wr: 0   rd: 0	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 680	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 1	Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 685	wr: 1   rd: 0	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 690	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 0	Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 693	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 65 12   Full: 0	$\mid$ Empty: 0 $\mid$ Valid: 1 $\mid$ Overflow: 1 $\mid$	Underflow: 0
Time: 695	wr: 1   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 c5 12   Full: 0		Underflow: 0
Time: 700	wr: 0   rd: 1	FIFO Memory: aa e5 f	f2 f2 e8 e8 c5 12   Full: 0	Empty: 0   Valid: 1   Overflow: 0	Und <b>ErPWave</b>

Time: 710   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 12   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 720   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 12   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 721   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 12   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 725   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 730   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 735   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 740   wr: 0   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 750   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 760   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 763   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 770   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 777   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 780   wr: 0   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 790   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 791   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 800   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 805   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 810   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 815   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 0   Overflow: 1   Underfl	ow: 0
Time: 819   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 1   Overflow: 1   Underfl	ow: 0
Time: 820   wr: 0   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 1   Overflow: 1   Underfl	ow: 0
Time: 825   wr: 0   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Test Case 7: Long run test with random o	perations			
Time: 830   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 1   Overflow: 0   Underfl	ow: 0
Time: 833   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 835   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 840   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 855   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 860   wr: 0   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 880   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 885   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 0   Overflow: 1   Underfl	ow: 0
Time: 890   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 0   Overflow: 1   Underfl	ow: 0
Time: 903   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empt	: 0   Valid: 1   Overflow: 1   Underfl	ow: 0
Time: 930   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 1   Overflow: 1   Underfl	ow: 0
Time: 931   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 1   Empty	: 0   Valid: 0   Overflow: 1   Underfl	ow: 0
Time: 935   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 0   Overflow: 1   Underfl	ow: 0
Time: 945   wr: 1   rd: 0   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empty	: 0   Valid: 0   Overflow: 0   Underfl	ow: 0
Time: 950   wr: 1   rd: 1   FIFO Memory	aa e5 f2 f2 e8 e8	c5 5c   Full: 0   Empt	: 0   Valid: 0   Overflow: 0   Und <b>ក្របុ</b>	<b>V</b> ave <sup>0</sup>

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Time: 955 | wr: 1 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 959 | wr: 1 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 960 | wr: 0 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 970 | wr: 0 | rd: 0 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 973 | wr: 0 | rd: 0 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 990 | wr: 0 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1001 | wr: 0 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1015 | wr: 0 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1020 | wr: 1 | rd: 1 | FIFO Memory: aa e5 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1025 | wr: 1 | rd: 1 | FIFO Memory: b6 e5 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1030 | wr: 1 | rd: 0 | FIFO Memory: b6 e5 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1035 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1040 | wr: 0 | rd: 0 | FIFO Memory: b6 b6 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1043 | wr: 0 | rd: 0 | FIFO Memory: b6 b6 f2 f2 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1045 | wr: 0 | rd: 0 | FIFO Memory: b6 b6 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1060 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 f2 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1065 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1070 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1071 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 f2 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1075 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1085 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 1 | Underflow: 0
Time: 1090 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 1 | Underflow: 0
Time: 1099 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1100 | wr: 0 | rd: 0 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1105 | wr: 0 | rd: 0 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1110 | wr: 0 | rd: 1 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1113 | wr: 0 | rd: 1 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1120 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 e8 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1125 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 62 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1130 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 e8 c5 5c | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1135 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 c5 5c | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1141 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 c5 5c | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1145 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 c5 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1155 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 8f 5c | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1165 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1175 | wr: 1 | rd: 0 | FIFO Memory: b6 b6 71 71 62 62 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1190 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 62 62 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1197 | wr: 1 | rd: 1 | FIFO Memory: b6 b6 71 71 62 62 8f 9f | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 1 | Unpapility 0
```

Time: 1200   wr: 0   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 1205   wr: 0   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9		
Time: 1225   wr: 0   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9		
Time: 1230   wr: 0   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9		
Time: 1239   wr: 0   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9		
Time: 1250   wr: 0   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9		Underflow: 0
Time: 1253   wr: 0   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9		Underflow: 0
Time: 1280   wr: 1   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1330   wr: 1   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1337   wr: 1   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1340   wr: 0   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1380   wr: 1   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1390   wr: 1   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1393   wr: 1   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1395   wr: 1   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1405   wr: 1   rd: 1   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 1410   wr: 1   rd: 0   FIFO Memory: b6 b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 1	Underflow: 0
Time: 1415   wr: 1   rd: 0   FIFO Memory: 5f b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1421   wr: 1   rd: 0   FIFO Memory: 5f b6 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1425   wr: 1   rd: 0   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1435   wr: 1   rd: 0   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 1440   wr: 0   rd: 0   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 0   Overflow: 1	Underflow: 0
Time: 1445   wr: 0   rd: 0   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 0   Overflow: 0	Underflow: 0
Time: 1450   wr: 0   rd: 1   FIFO Memory: 5f cb 71 71 62 62 8f 9		Underflow: 0
Time: 1463   wr: 0   rd: 1   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 1   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1475   wr: 0   rd: 1   FIFO Memory: 5f cb 71 71 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 1   Overflow: 0	Underflow: 0
Time: 1480   wr: 1   rd: 1   FIFO Memory: 5f cb 71 71 62 62 8f 9		
Time: 1485   wr: 1   rd: 1   FIFO Memory: 5f cb 79 71 62 62 8f 9		
Time: 1490   wr: 1   rd: 0   FIFO Memory: 5f cb 79 71 62 62 8f 9		
Time: 1491   wr: 1   rd: 0   FIFO Memory: 5f cb 79 71 62 62 8f 9		
Time: 1495   wr: 1   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9		
Time: 1500   wr: 0   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9		
Time: 1510   wr: 0   rd: 1   FIFO Memory: 5f cb 79 79 62 62 8f 9	· ·	Underflow: 0
Time: 1519   wr: 0   rd: 1   FIFO Memory: 5f cb 79 79 62 62 8f 9		
Time: 1530   wr: 0   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9	· ·	
Time: 1533   wr: 0   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9		
Time: 1535   wr: 0   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9		
Time: 1540   wr: 1   rd: 0   FIFO Memory: 5f cb 79 79 62 62 8f 9	f   Full: 0   Empty: 0   Valid: 0   Overflow: 0	∪n <b>⊭pWa∀e</b> 0

```
Time: 1545 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 62 8f 9f | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1555 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1560 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1590 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1603 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1635 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1640 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 8f 9f | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1645 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 9f | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1655 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1660 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1665 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1670 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1673 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1680 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1695 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1705 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1720 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1725 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1730 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1740 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1743 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1745 | wr: 1 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 1 | Underflow: 0
Time: 1750 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 1 | Overflow: 1 | Underflow: 0
Time: 1755 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 1 | Underflow: 0
Time: 1757 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1760 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
Time: 1765 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1770 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1771 | wr: 0 | rd: 1 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1790 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 1 | Overflow: 0 | Underflow: 0
Time: 1799 | wr: 0 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1800 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 0 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1835 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 0 | Underflow: 0
Time: 1845 | wr: 1 | rd: 0 | FIFO Memory: 5f cb 79 79 c3 c3 d9 d9 | Full: 1 | Empty: 0 | Valid: 0 | Overflow: 1 | Underflow: 0
testbench.sv:133: $finish called at 1930 (1s)
```

Finding VCD file...

/£:£- +--+ ....

./fifo\_test.vcd

**EPWave** 

[2024-09-07 10:18:54 UTC] Opening EPWave...
Done

**EPWave**