

Each port of WR switch uses a **strict priority queue**. The packets with highest priority will go to this queue. E.g. Packets with Priority 7 will go to this queue. If the highest priority within the switch network is 6, the packets with priority 6 will go to this queue. All normal queue processing stops until this queue is empty. When the strict priority queue is empty, other queues will be scheduled by the Weighted Round Robin (WRR) algorithm. Each priority has one queue. The WRR algorithm is as following:

Priority	Queue No	Bandwidth for queue	
0	0	x	$x+2x+3x+4x+5x+6x+7x=1\text{Gbps}$
1	1	2x	
2	2	3x	
3	3	4x	
4	4	5x	
5	5	6x	
6	6	7x	
7	Strict priority queue		1 layer 500Mbps = 45 us ± 42 us

The test packet is with 1248 bytes length.

The screenshot displays the XenaManager-2G v1.20 interface. The 'Global Statistics (2 Ports, 8 Streams)' panel is active, showing 'All Ports and Streams in Current Testbed'. The 'Stream Statistics' table lists 8 streams, each with a unique ID, Priority, and various performance metrics. The 'Latency and Jitter' panel shows a table of latency and jitter statistics for each stream.

ID	Priority	Src.Port	SID	Dest.Port	TID	Description	Agg	Agg	AggrMa	Agg	Cun	Cun	Cun	Cun	Agg	Agg	Aggrf	Agg	CurrM
Stream number 0	7	Port 0/4/4	0	Port 0/4/5	7	Stream number 0	2,567	19,111	27,295	14,728	2,615	19,114	27,295	24,680	0	197	24,655	24,655	
Stream number 1	6	Port 0/4/4	1	Port 0/4/5	9	Stream number 1	2,856	23,810	2,522,783	2,519.5	2,856	23,591	2,522.7	2,519.5	0	20,399	2,519.92	2,519.5	
Stream number 2	5	Port 0/4/4	2	Port 0/4/5	11	Stream number 2	2,904	58,930	5,038,621	5,035.7	2,952	58,010	5,038.6	5,035.6	0	40,758	5,035.66	5,035.6	
Stream number 3	4	Port 0/4/4	3	Port 0/4/5	12	Stream number 3	2,976	43,277	7,544,260	7,541.2	3,000	42,585	7,544.2	7,541.2	0	61,068	7,541.23	7,541.2	
Stream number 4	3	Port 0/4/4	4	Port 0/4/5	13	Stream number 4	3,024	98,735	10,060,099	10,057	3,048	96,885	10,060	10,057	0	81,429	10,057.0	10,057	
Stream number 5	2	Port 0/4/4	5	Port 0/4/5	14	Stream number 5	3,096	62,743	12,565,738	12,562	3,120	61,585	12,565	12,562	0	101,73	12,562.6	12,562	
Stream number 6	1	Port 0/4/4	6	Port 0/4/5	15	Stream number 6	3,168	138,54	15,081,552	15,078	3,192	135,75	15,081	15,078	0	122,10	15,078.3	15,078	
Stream number 7	0	Port 0/4/4	7	Port 0/4/5	16	Stream number 7	2,856	82,210	17,587,191	17,584	2,856	82,306	17,587	17,584	0	142,40	17,584.3	17,584	