Valkyrie2889 Test Report

Test Summary

Test company: Xena Networks
Customer: GSI TOS

Test Date and Time: 2023-12-08, 16:47
Test Duration: 06:49:42 (h:m:s)
Generated By: Valkyrie2889 v1.41, running on 'Microsoft Windows 10 Enterprise'

Comments: service traffic (bi-directional, 1% overall test port rate), 4 layers:
                          - host: aconbg027
                          - chassis: Xenabay (140.181.139.228)
                          DUT:
                          - WRS: backplane v3.30, scb v3.4, Creotech
                          - name: nwt0010/16/296/297
                          - fw: v6.1
                          - dot-config: production

Test Setup

Test Configuration

Subtest Selection

Rate Test: Full Mesh   Disabled
Rate Test: Part.Mesh, 1:N   Enabled
- Throughput   Enabled
- Forwarding   Disabled

Rate Test: Part.Mesh, N->N   Disabled
Congestion Control: Disabled
Forward Pressure: Disabled
Maximum Forwarding Rate: Disabled
Address Caching Capacity: Disabled
Address Learning Rate: Disabled
Errored Frames Filtering: Disabled
Broadcast Forwarding: Disabled

Test Options

Packet Sizes Used: 64,128,256,512,1024,1280,1518

Rate Type: Fraction
Fraction per Port: 1,00%

Latency Measurement Mode: Last-To-Last
Toggle Port Sync States: Yes

Traffic Configuration

Used Chassis

Chassis ID	Chassis Name	Address
C-0	xenatos	140.181.139.228:22606

Used Ports

Port ID	Interface Type	Speed	IP Address & Gateway	Protocol Segment Profile
P-0-0-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet

Rate Test: Part.Mesh, 1:N Results

Test Setup

Duration:	60 seconds
Iteration:	3
Topology:	Blocks
Direction:	Bidirectional

Throughput Options

Initial Rate:	50,00%
Maximum Rate:	100,00%
Minimum Rate:	0,01%
Resolution:	0,01%

Used Ports

Port ID	Port Role
P-0-2-0	East
P-0-2-1	West
P-0-2-2	West
P-0-0-0	West
P-0-2-4	West
P-0-2-3	West
P-0-2-5	West
P-0-4-0	West
P-0-4-1	West
P-0-4-2	West
P-0-4-3	West
P-0-4-4	West
P-0-4-5	West
P-0-0-2	West
P-0-0-3	West
P-0-0-1	West
P-0-0-4	West
P-0-0-5	West

Throughput Test Results

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	FAIL	PASS	FAIL
Iter. #	(avg)	(avg)	(avg)	(avg)	(avg)	(avg)
Tx Rate (Percent)	0,066 %	0,053 %	0,043 %	0,035 %	0,062 %	0,055 %
Tx Rate (L1) (Bit/s)	110,07 K	90,33 K	71,58 K	57,88 K	104,12 K	91,35 K
Tx Rate (Fps)	164	76	32	14	12	9
Rx Rate (Percent)	0,07 %	0,05 %	0,04 %	0,03 %	0,06 %	0,06 %
Rx Rate (L1) (Bit/s)	110,07 K	90,33 K	71,58 K	57,81 K	104,12 K	91,17 K
Rx Rate (Fps)	163,79	76,29	32,42	13,58	12,47	8,77
Loss Rate (Percent)	0 %	0 %	0 %	0,12 %	0 %	0,19 %
Loss (Frames)	0	0	0	1	0	1
P-0-0-0						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-0-1						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0

- Flood Count (Frames)	0	0	0	0	0	0
P-0-0-2						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-0-3						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-0-4						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-0-5						
- Tx (Frames)	577	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,46 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-0						
- Tx (Frames)	0	0	0	0	0	0
- Tx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Tx Rate (Fps)	0	0	0	0	0	0
- Rx (Frames)	9.820	4.573	1.938	815	748	526
- Rx Rate (L1) (Bit/s)	109,98 K	90,24 K	71,32 K	57,81 K	104,12 K	91,17 K
- Rx Rate (Fps)	164	76	32	14	12	9
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-1						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-2						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-3						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-4						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0

- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-2-5						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-0						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-1						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-2						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-3						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-4						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0
P-0-4-5						
- Tx (Frames)	578	269	114	48	44	31
- Tx Rate (L1) (Bit/s)	6,47 K	5,31 K	4,2 K	3,4 K	6,12 K	5,37 K
- Tx Rate (Fps)	10	4	2	1	1	1
- Rx (Frames)	0	0	0	0	0	0
- Rx Rate (L1) (Bit/s)	0	0	0	0	0	0
- Rx Rate (Fps)	0	0	0	0	0	0
- Flood Count (Frames)	0	0	0	0	0	0

Frame Size	1518
Result State	PASS
Iter. #	(avg)
Tx Rate (Percent)	0,053 %
Tx Rate (L1) (Bit/s)	88,32 K
Tx Rate (Fps)	7
Rx Rate (Percent)	0,05 %
Rx Rate (L1) (Bit/s)	88,32 K
Rx Rate (Fps)	7,18
Loss Rate (Percent)	0 %
Loss (Frames)	0

P-0-0-0	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-0-1	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-0-2	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-0-3	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-0-4	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-0-5	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-2-0	
- Tx (Frames)	0
- Tx Rate (L1) (Bit/s)	0
- Tx Rate (Fps)	0
- Rx (Frames)	425
- Rx Rate (L1) (Bit/s)	87,15 K
- Rx Rate (Fps)	7
- Flood Count (Frames)	0
P-0-2-1	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-2-2	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0

- Flood Count (Frames)	0
P-0-2-3	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-2-4	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-2-5	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-0	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-1	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-2	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-3	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-4	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0
- Rx Rate (Fps)	0
- Flood Count (Frames)	0
P-0-4-5	
- Tx (Frames)	25
- Tx Rate (L1) (Bit/s)	5,13 K
- Tx Rate (Fps)	0
- Rx (Frames)	0
- Rx Rate (L1) (Bit/s)	0

- Rx Rate (Fps)	0
- Flood Count (Frames)	0

Note: One or more of the rate tests did not pass the test criteria!

Part.Mesh, 1:N: Throughput by Frame Size vs Theoretical Max