# Valkyrie2889 Test Report

## Test Summary

| | |
|---|---|
| Test company: | Xena Networks |
| Customer: | GSI TOS |
| Test Date and Time: | 2024-02-22, 13:44 |
| Test Duration: | 01:51:23 (h:m:s) |
| Generated By: | Valkyrie2889 v1.41, running on 'Microsoft Windows 10 Enterprise' |

Comments:
FBAS unicast (1% overall test port rate):
- host: aconbg027
- chassis: Xenabay (140.181.139.228)
DM broadcast:
- not present
DUT:
- WRS: backplane v3.30, scb v3.4, Creotech
- name: nwt0297
- fw: v6.1
- dot-config: access

## 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: | 90,134,222,398,574,750 |
| | |
| 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: | 1 |
| Topology: | Blocks |
| Direction: | West-to-East |

## Throughput Options

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

## Used Ports

| Port ID | Port Role |
|---|---|
| P-0-2-1 | West |
| P-0-2-2 | East |
| 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 | 90 | 134 | 222 | 398 | 574 | 750 |
|---|---|---|---|---|---|---|
| Result State | PASS | PASS | PASS | PASS | PASS | PASS |
| Iter. # | 1 | 1 | 1 | 1 | 1 | 1 |
| Tx Rate (Percent) | 16,074 % | 2,555 % | 95,375 % | 28,05 % | 45,332 % | 51,639 % |
| Tx Rate (L1) (Bit/s) | 25,72 M | 4,09 M | 152,6 M | 44,88 M | 72,53 M | 82,62 M |
| Tx Rate (Fps) | 29.226 | 3.318 | 78.822 | 13.421 | 15.263 | 13.413 |
| Rx Rate (Percent) | 16,07 % | 2,55 % | 95,38 % | 28,05 % | 45,33 % | 51,64 % |
| Rx Rate (L1) (Bit/s) | 25,72 M | 4,09 M | 152,6 M | 44,88 M | 72,53 M | 82,62 M |
| Rx Rate (Fps) | 29,23 K | 3,32 K | 78,82 K | 13,42 K | 15,26 K | 13,41 K |
| Loss Rate (Percent) | 0 % | 0 % | 0 % | 0 % | 0 % | 0 % |
| Loss (Frames) | 0 | 0 | 0 | 0 | 0 | 0 |
| P-0-0-0 | | | | | | |
| - Tx (Frames) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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-0-2-1 | | | | | | |
| - Tx (Frames) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 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) | 1.753.552 | 199.056 | 4.729.328 | 805.264 | 915.792 | 804.752 |
| - Rx Rate (L1) (Bit/s) | 25,72 M | 4,09 M | 152,6 M | 44,88 M | 72,53 M | 82,62 M |
| - Rx Rate (Fps) | 29.226 | 3.318 | 78.822 | 13.421 | 15.263 | 13.413 |
| - Flood Count (Frames) | 150 | 149 | 152 | 149 | 152 | 151 |
| P-0-2-3 | | | | | | |
| - Tx (Frames) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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) | 109.597 | 12.441 | 295.583 | 50.329 | 57.237 | 50.297 |
| - Tx Rate (L1) (Bit/s) | 1,61 M | 255,46 K | 9,54 M | 2,81 M | 4,53 M | 5,16 M |
| - Tx Rate (Fps) | 1.827 | 207 | 4.926 | 839 | 954 | 838 |
| - 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 |

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