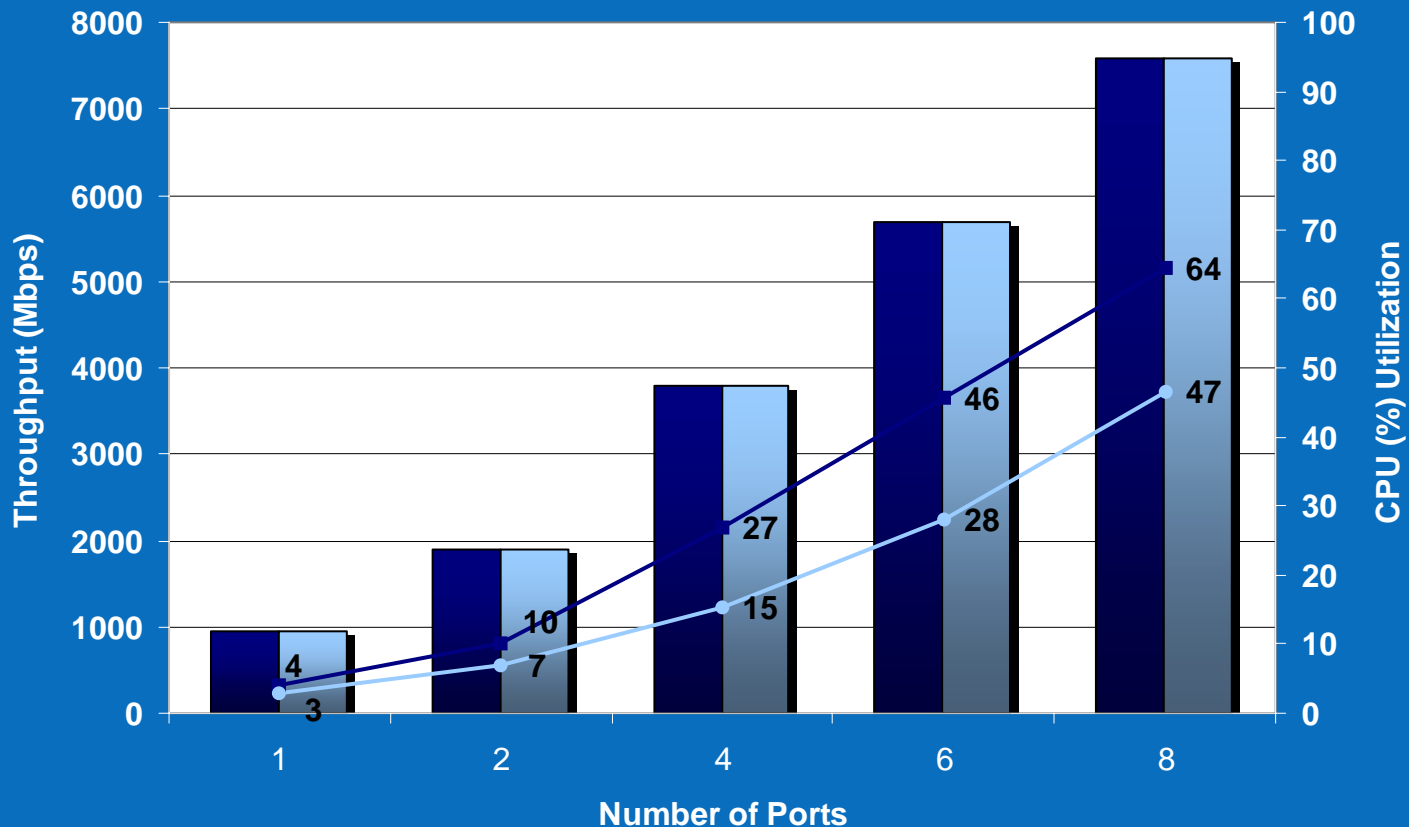


Linux Receive Port Scaling With Intel® I/OAT

Bensley Std. GbE vs. Bensley with Intel® I/OAT
Linux Receive (Rx) Throughput and CPU Utilization



Unpatched Kernel Mbps
 I/OAT Mbps
 Unpatched Kernel CPU
 I/OAT CPU

Test

Ixia IxChariot* 6.2
 6 Clients Per Port Under Test
 High Perf. Throughput script
 File Size = 1000000 Bytes
 Buffer Size = 65535 Bytes
 Data Type – Zeros

Bensley Server

Intel® Bridgeport CRB 55
 3.2GHz Dual-Core Intel® Xeon® processor X2
 8GB RAM
 Red Hat* EL4
 Kernel 2.6.15 – w/o Intel I/OAT
 Kernel 2.6.15 – with Intel I/OAT
 Base Driver 7.0.34
 Intel® I/OAT v.50

Clients

Dell PowerEdge 750
 3.4Ghz Pentium® 4 processor
 Windows XP Professional SP1

Network Configuration

Cisco 6509
 Clients connected @ 1000 Mbs

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Source: Intel Labs Mar. 2006

