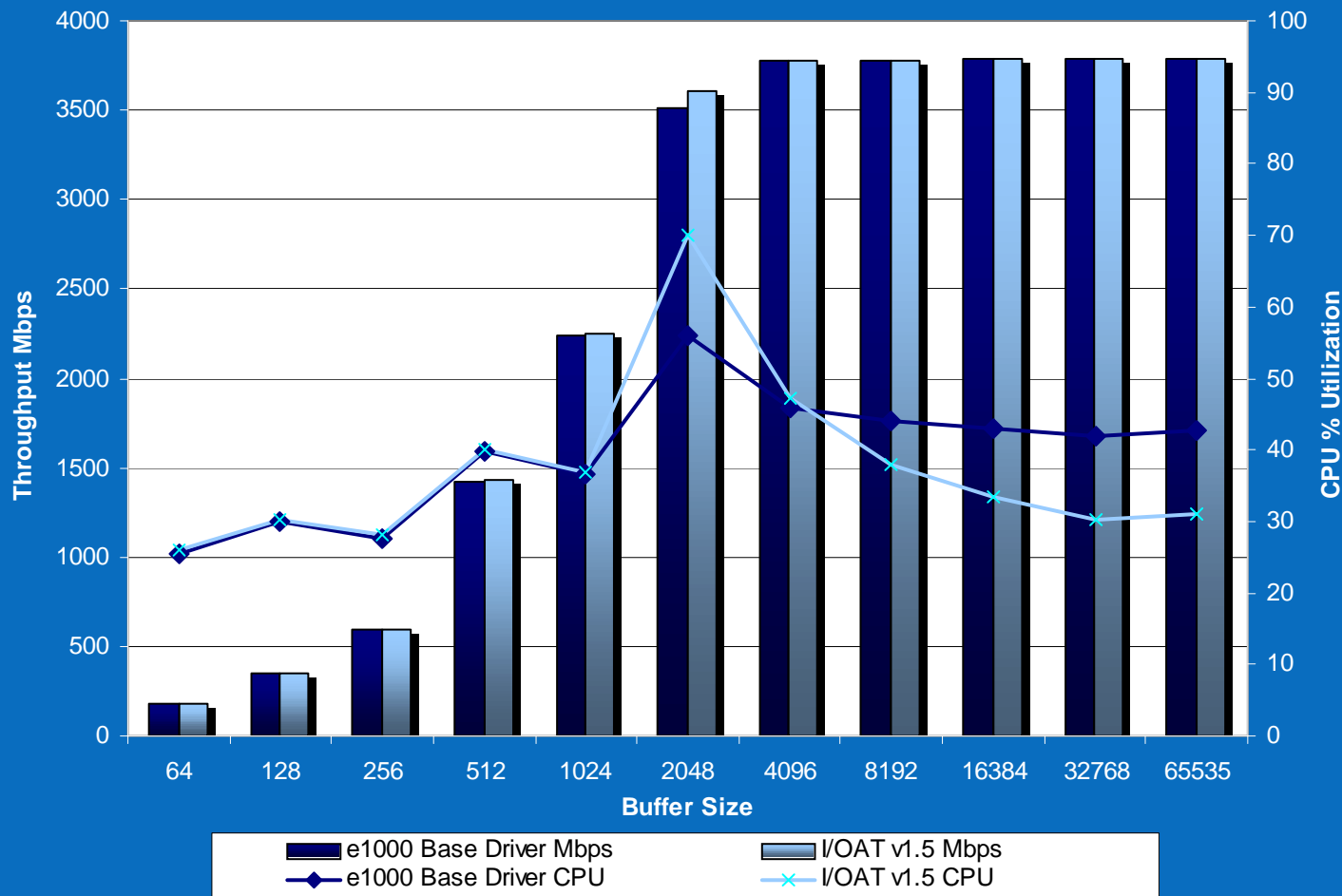


Linux Receive Variable Buffer with Intel® I/OAT 4 Port Chariot with Data Verification Enabled*

Bensley Kernel 2.6.16.1 Std. GbE vs. I/OAT v1.5
4-Ports Receive (Rx) Variable Buffer Performance Test



Test
Ixia IxChariot* 6.2
6 Clients Per Port Under Test
High Perf. Throughput script
File Size = 1000000 Bytes
Buffer Sizes = 64 to 64K Bytes
Data Type – Zeros
Data Verification Enabled
*(Touched Data)

Bensley Server
Intel® Bridgeport CRB 55
2x 3.2GHz Dual Core Xeon®
8GB RAM
Linux Kernel 2.6.16.1 patched
with Intel® I/OAT DMA v1.5
Base Driver 7.0.38

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

Network Configuration
Cisco 6509
Clients connected @ 1000 Mbs

Source: Intel Labs April 2006

Legal Disclaimer:

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit (<http://www.intel.com/performance/resources/limits.htm>).



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Buffer Size	e1000 Base Driver Mbps	e1000 Base Driver CPU			Buffer Size	I/OAT v1.5 Mbps	I/OAT v1.5 CPU
64	181	25			64	180	26
128	346	30			128	350	30
256	595	28			256	597	28
512	1420	40			512	1429	40
1024	2236	37			1024	2246	37
2048	3513	56			2048	3603	70
4096	3776	46			4096	3777	47
8192	3776	44			8192	3778	38
16384	3789	43			16384	3790	33
32768	3791	42			32768	3790	30
65535	3790	43			65535	3790	31

Source: Intel Labs April 2006

Intel Confidential

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