



LINUX
CLUSTERS
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x336 and e326 HPC Performance

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IBM eServer xSeries Performance
Development and Analysis

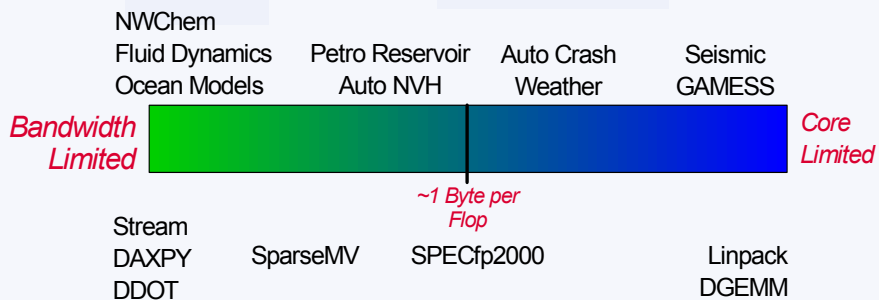


HPC Application Spectrum

Bandwidth and processor compute capability assessed

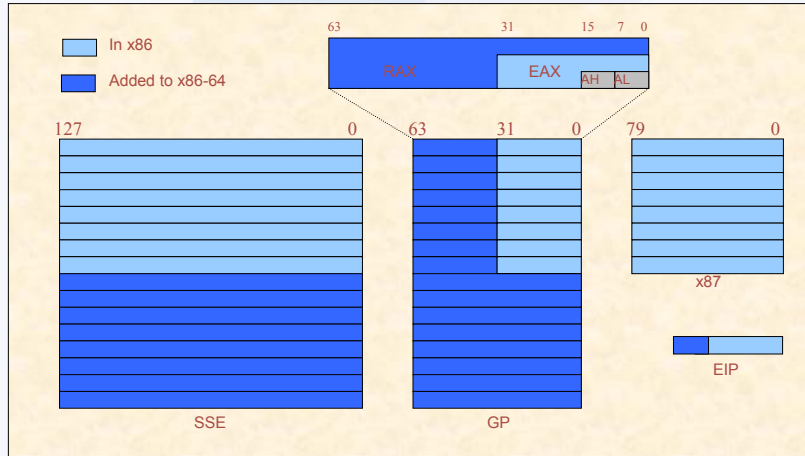
Applications span the spectrum

No single industry accepted metric exists

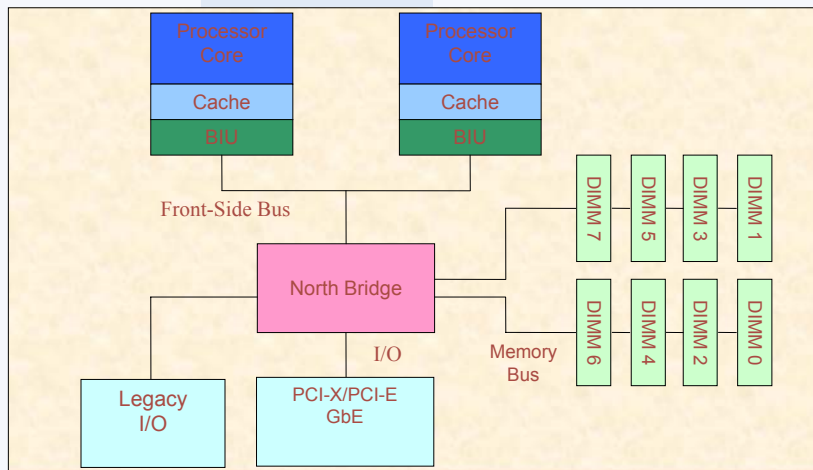




x86 and x86-64 Registers

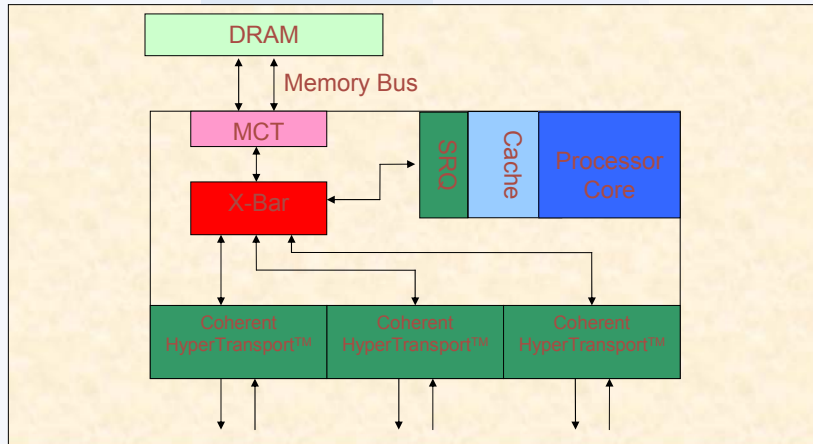


IBM eServer xSeries 336 Block Diagram





Opteron Processor Block Diagram

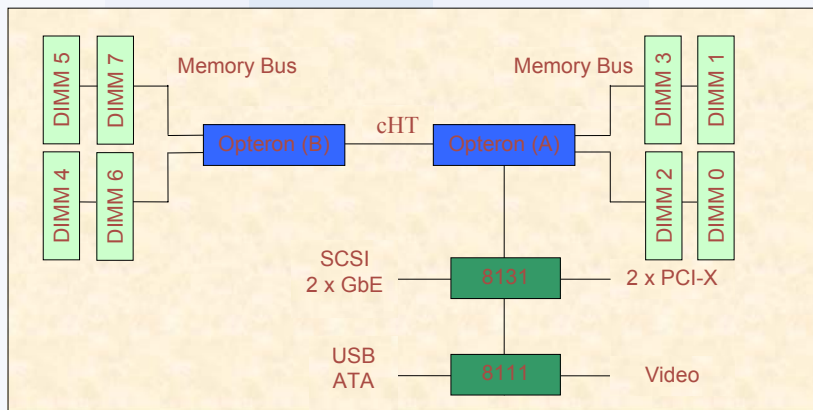


27 April 2005

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IBM eServer 326 Block Diagram

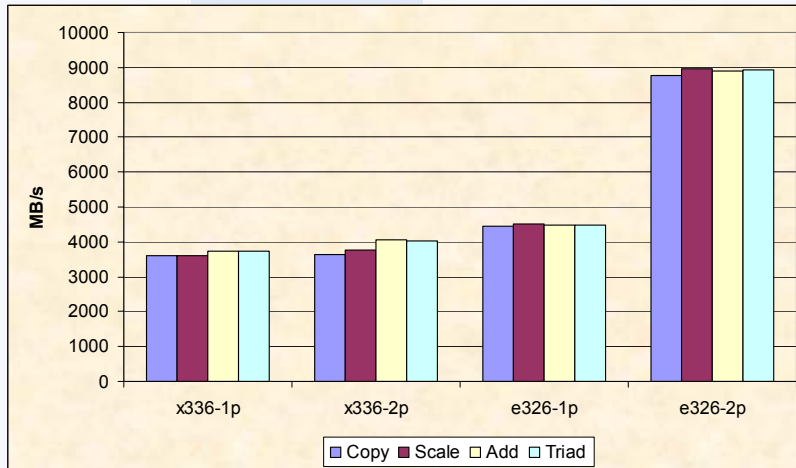


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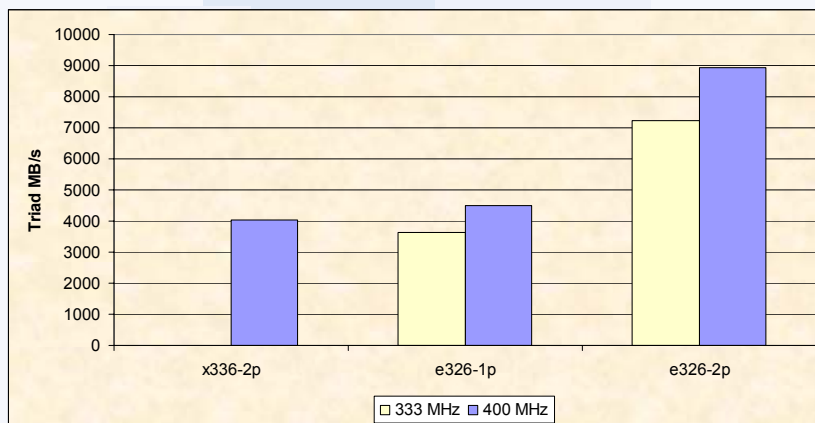
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Stream Results for the 3.6 GHz x336 and 2.4 GHz e326 Servers

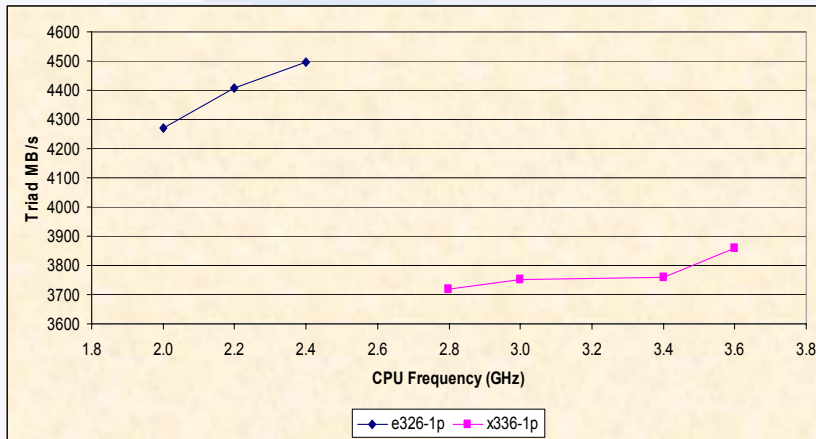


Comparing 333 MHz and 400 MHz Memory

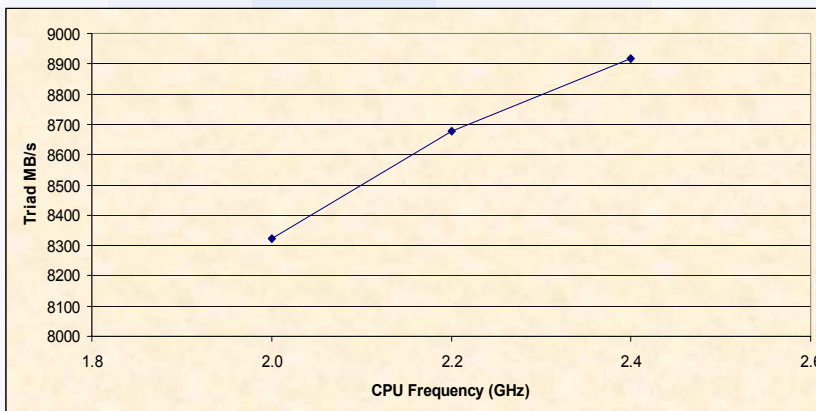




x336 and e326 1P DDR400 Memory Performance by Processor Frequency

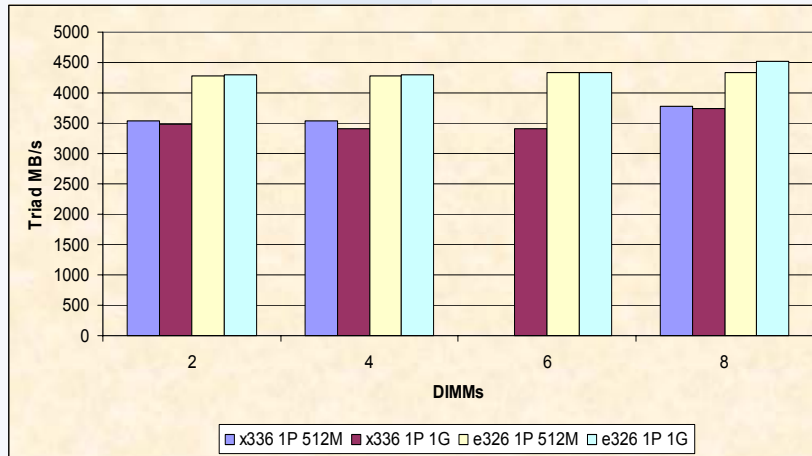


e326 2P Memory Performance by Processor Frequency

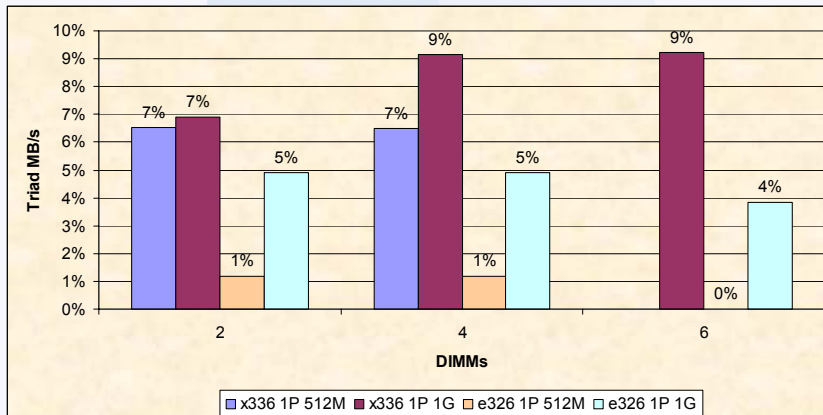




Memory Performance by Number of DIMMs

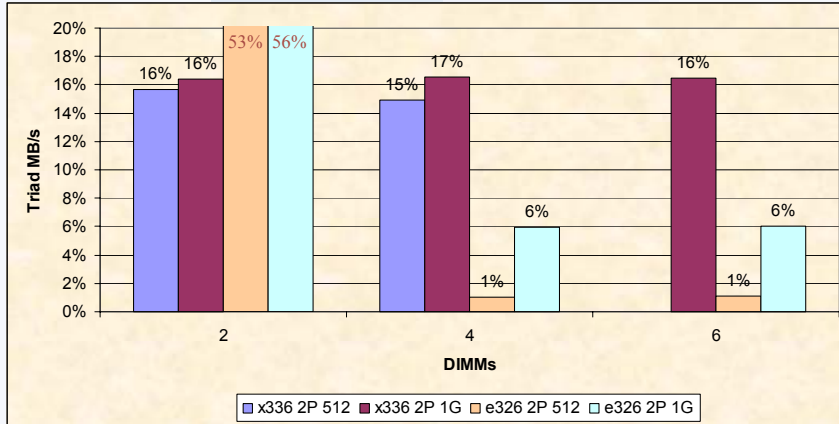


1P Performance LOSS Due to the Number of DIMMs vs. 8 DIMMs

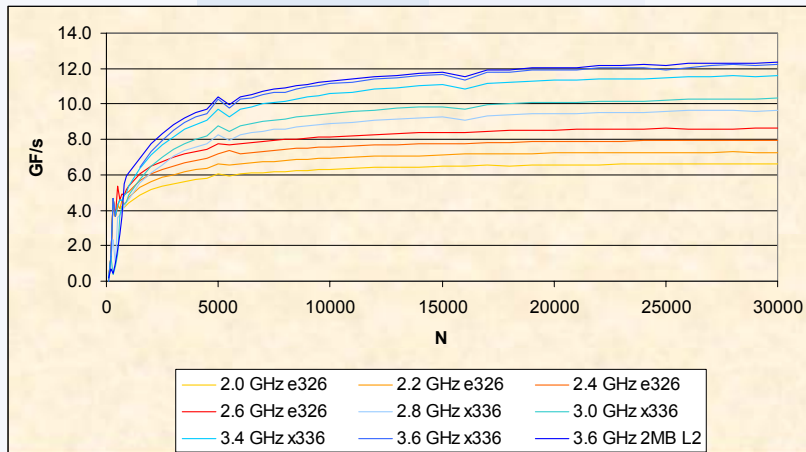




2P Performance LOSS Due to the Number of DIMMs vs. 8 DIMMs

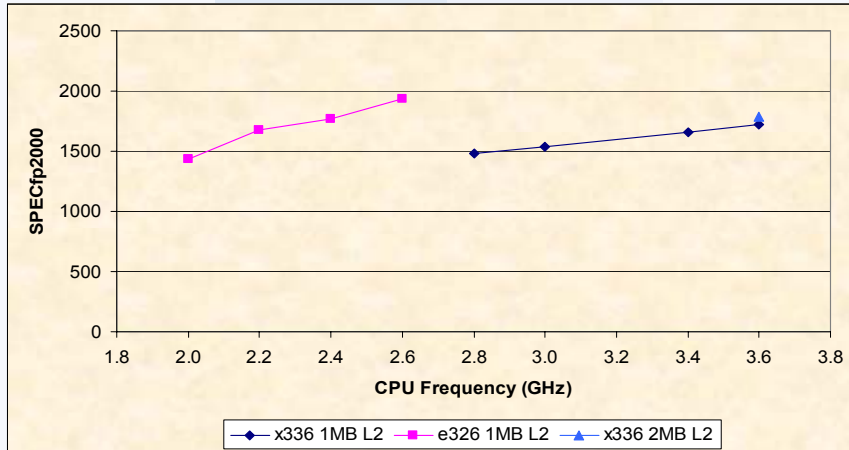


x336 and e326 Linpack Performance

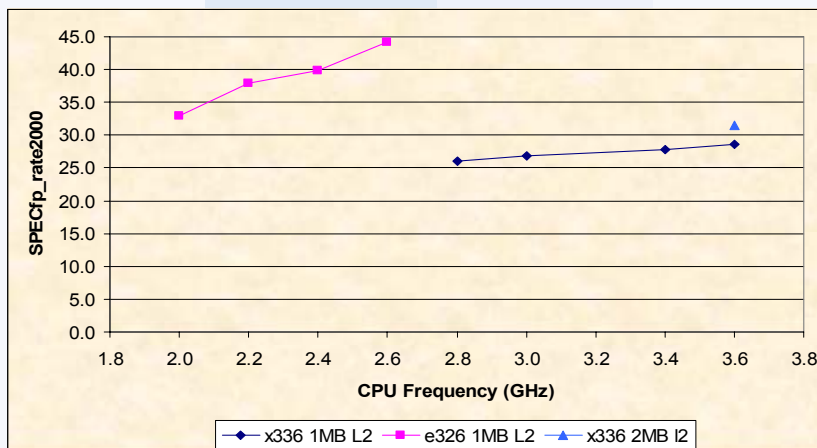




x336 and e326 SPEC CFP2000 (Speed) Performance



x336 and e326 SPEC CFP2000 Rates Performance





Questions