

## SiSandra .Net Multimedia results for WS2008:

SiSoftware Sandra

### Benchmark Results

Multi-Media Int x1 .NET : 9267iit/s

Multi-Media Float x1 .NET : 1863fit/s

Results Interpretation : Higher index values are better.

### Performance vs. Speed

Multi-Media Int x1 .NET : 4.63iit/s/MHz

Multi-Media Float x1 .NET : 0.93fit/s/MHz

Results Interpretation : Higher index values are better.

### Performance vs. Power

Processor(s) Power : 79.31W

Multi-Media Int x1 .NET : 116.85iit/s/W

Multi-Media Float x1 .NET : 23.49fit/s/W

Results Interpretation : Higher index values are better.

### Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

Platform Compliance : Win32 x86

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

System Timer : 3.58MHz

Rendered Image Size : 640x480

## .NET CLR Information

Version : 2.0.50727

## Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

## Performance Tips

Notice 5008 : To change benchmarks, click Options.

Notice 5004 : Synthetic benchmark. May not tally with 'real-life' performance.

Notice 5006 : Only compare the results with ones obtained using the same version!

Tip 2 : Double-click tip or press Enter while a tip is selected for more information about the tip.

## **SiSandra .Net Multimedia results for Vista:**

SiSoftware Sandra

### Benchmark Results

Multi-Media Int x1 .NET : 7665iit/s

Multi-Media Float x1 .NET : 1839fit/s

Results Interpretation : Higher index values are better.

### Windows Experience Index

Current Processor(s) : 4.1

Results Interpretation : Higher index values are better.

#### Performance vs. Speed

Multi-Media Int x1 .NET : 3.83iit/s/MHz

Multi-Media Float x1 .NET : 0.92fit/s/MHz

Results Interpretation : Higher index values are better.

#### Performance vs. Power

Processor(s) Power : 79.31W

Multi-Media Int x1 .NET : 96.65iit/s/W

Multi-Media Float x1 .NET : 23.19fit/s/W

Results Interpretation : Higher index values are better.

#### Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

Platform Compliance : Win32 x86

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

System Timer : 3.58MHz

Rendered Image Size : 640x480

#### .NET CLR Information

Version : 2.0.50727

#### Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

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## **SiSandra .Net Arithmetic results for WS2008:**

SiSoftware Sandra

#### Benchmark Results

Dhrystone .NET : 1936MIPS

Whetstone .NET : 4085MFLOPS

Results Interpretation : Higher index values are better.

#### Performance vs. Speed

Dhrystone .NET : 0.97MIPS/MHz

Whetstone .NET : 2.04MFLOPS/MHz

Results Interpretation : Higher index values are better.

#### Performance vs. Power

Processor(s) Power : 79.31W

Dhrystone .NET : 24.41MIPS/W

Whetstone .NET : 51.51MFLOPS/W

Results Interpretation : Higher index values are better.

#### Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

Platform Compliance : Win32 x86

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

System Timer : 3.58MHz

Number of Runs : 64000 / 640

#### .NET CLR Information

Version : 2.0.50727

#### Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

#### Performance Tips

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Notice 5004 : Synthetic benchmark. May not tally with 'real-life' performance.

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## SiSandra .Net Arithmetic results for Vista:

SiSoftware Sandra

### Benchmark Results

Dhrystone .NET : 1786MIPS

Whetstone .NET : 3563MFLOPS

Results Interpretation : Higher index values are better.

### Windows Experience Index

Current Processor(s) : 4.1

Results Interpretation : Higher index values are better.

### Performance vs. Speed

Dhrystone .NET : 0.89MIPS/MHz

Whetstone .NET : 1.78MFLOPS/MHz

Results Interpretation : Higher index values are better.

### Performance vs. Power

Processor(s) Power : 79.31W

Dhrystone .NET : 22.52MIPS/W

Whetstone .NET : 44.92MFLOPS/W

Results Interpretation : Higher index values are better.

### Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

Platform Compliance : Win32 x86

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

System Timer : 3.58MHz

Number of Runs : 64000 / 640

.NET CLR Information

Version : 2.0.50727

Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

Performance Tips

Notice 5008 : To change benchmarks, click Options.

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Notice 5006 : Only compare the results with ones obtained using the same version!

Tip 2 : Double-click tip or press Enter while a tip is selected for more information about the tip.

## **SiSandra Memory Bandwidth results for WS2008:**

SiSoftware Sandra

Benchmark Results

Int Buff'd iSSE2 Memory Bandwidth : 2.81GB/s

Float Buff'd iSSE2 Memory Bandwidth : 2.81GB/s

Results Interpretation : Higher index values are better.

### Performance vs. Speed

Int Buff'd iSSE2 Memory Bandwidth : 7.18MB/s/MHz

Float Buff'd iSSE2 Memory Bandwidth : 7.20MB/s/MHz

Results Interpretation : Higher index values are better.

### Performance vs. Power

Chipset(s)/Memory Power : 21.46W

Int Buff'd iSSE2 Memory Bandwidth : 133.92MB/s/W

Float Buff'd iSSE2 Memory Bandwidth : 134.11MB/s/W

Results Interpretation : Higher index values are better.

### Int Buff'd iSSE2 Memory Bandwidth

Assignment : 2.82GB/s

Scaling : 2.82GB/s

Addition : 2.79GB/s

Triad : 2.79GB/s

Data Item Size : 16bytes

Buffering Used : Yes

Offset Displacement Used : Yes

Bandwidth Efficiency : 89.81%

### Float Buff'd iSSE2 Memory Bandwidth

Assignment : 2.82GB/s

Scaling : 2.83GB/s

Addition : 2.79GB/s

Triad : 2.79GB/s

Data Item Size : 16bytes

Buffering Used : Yes



Offset Displacement Used : Yes

Bandwidth Efficiency : 89.94%

#### Performance Test Status

Run ID : VIA Apollo K8T800 CPU to PCI Bridge; 1x 1.5GB DDR PC3200 (2.5-4-4-6)

Platform Compliance : Win32 x86

Memory Used by Test : 511.97MB

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

Multi-Core Test : No

SMT (Multi-Threaded) Benchmark : No

Processor Affinity : P0C0T0

System Timer : 3.58MHz

Page Size : 4kB

Use Large Memory Pages : No

#### Features

SSE Technology : Yes

SSE2 Technology : Yes

SSE3 Technology : No

Supplemental SSE3 Technology : No

SSE4.1 Technology : No

SSE4.2 Technology : No

EMMX - Extended MMX Technology : Yes

SSE4A Technology : No

HTT - Hyper-Threading Technology : No

## Chipset 1

Model : ASUS Apollo K8T800 CPU to PCI Bridge

Revision : A2

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

## Chipset 2

Model : AMD Athlon 64 / Opteron HyperTransport Technology Configuration

Revision : A1

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

## Logical/Chipset 2 Memory Banks

Bank 0 : 256MB DDR 2.5-4-4-6 CR1

Bank 1 : 256MB DDR 2.5-4-4-6 CR1

Bank 4 : 512MB DDR 2.5-4-4-6 CR1

Bank 5 : 512MB DDR 2.5-4-4-6 CR1

Channels : 1

Memory Bus Speed : 2x 200MHz (400MHz)

Multiplier : 1/10x

Width : 64-bit

Memory Controller in Processor : Yes

Cores per Memory Controller : 1 Unit(s)

Maximum Memory Bus Bandwidth : 3.13GB/s

## Performance Tips

Notice 5008 : To change benchmarks, click Options.

Notice 5004 : Synthetic benchmark. May not tally with 'real-life' performance.

Notice 5006 : Only compare the results with ones obtained using the same version!

Tip 2 : Double-click tip or press Enter while a tip is selected for more information about the tip.

## **SiSandra Memory Bandwidth results for Vista:**

SiSoftware Sandra

### Benchmark Results

Int Buff'd iSSE2 Memory Bandwidth : 2.60GB/s

Float Buff'd iSSE2 Memory Bandwidth : 2.61GB/s

Results Interpretation : Higher index values are better.

### Windows Experience Index

Current Chipset/Memory : 4.4

Results Interpretation : Higher index values are better.

### Performance vs. Speed

Int Buff'd iSSE2 Memory Bandwidth : 6.66MB/s/MHz

Float Buff'd iSSE2 Memory Bandwidth : 6.67MB/s/MHz

Results Interpretation : Higher index values are better.

### Performance vs. Power

Chipset(s)/Memory Power : 21.46W

Int Buff'd iSSE2 Memory Bandwidth : 124.14MB/s/W

Float Buff'd iSSE2 Memory Bandwidth : 124.42MB/s/W

Results Interpretation : Higher index values are better.

#### Int Buff'd iSSE2 Memory Bandwidth

Assignment : 2.63GB/s

Scaling : 2.63GB/s

Addition : 2.57GB/s

Triad : 2.58GB/s

Data Item Size : 16bytes

Buffering Used : Yes

Offset Displacement Used : Yes

Bandwidth Efficiency : 83.25%

#### Float Buff'd iSSE2 Memory Bandwidth

Assignment : 2.65GB/s

Scaling : 2.64GB/s

Addition : 2.57GB/s

Triad : 2.58GB/s

Data Item Size : 16bytes

Buffering Used : Yes

Offset Displacement Used : Yes

Bandwidth Efficiency : 83.44%

#### Performance Test Status

Run ID : VIA Apollo K8T800 CPU to PCI Bridge; 1x 1.5GB DDR PC3200 (2.5-4-4-6)

Platform Compliance : Win32 x86

Memory Used by Test : 511.97MB

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

Multi-Core Test : No

SMT (Multi-Threaded) Benchmark : No

Processor Affinity : POC0T0

System Timer : 3.58MHz

Page Size : 4kB

Use Large Memory Pages : No

#### Features

SSE Technology : Yes

SSE2 Technology : Yes

SSE3 Technology : No

Supplemental SSE3 Technology : No

SSE4.1 Technology : No

SSE4.2 Technology : No

EMMX - Extended MMX Technology : Yes

SSE4A Technology : No

HTT - Hyper-Threading Technology : No

#### Chipset 1

Model : ASUS Apollo K8T800 CPU to PCI Bridge

Revision : A2

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

#### Chipset 2

Model : AMD Athlon 64 / Opteron HyperTransport Technology Configuration

Revision : A1

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

Logical/Chipset 2 Memory Banks

Bank 0 : 256MB DDR 2.5-4-4-6 CR1

Bank 1 : 256MB DDR 2.5-4-4-6 CR1

Bank 4 : 512MB DDR 2.5-4-4-6 CR1

Bank 5 : 512MB DDR 2.5-4-4-6 CR1

Channels : 1

Memory Bus Speed : 2x 200MHz (400MHz)

Multiplier : 1/10x

Width : 64-bit

Memory Controller in Processor : Yes

Cores per Memory Controller : 1 Unit(s)

Maximum Memory Bus Bandwidth : 3.13GB/s

Performance Tips

Notice 5008 : To change benchmarks, click Options.

Notice 5004 : Synthetic benchmark. May not tally with 'real-life' performance.

Notice 5006 : Only compare the results with ones obtained using the same version!

Tip 2 : Double-click tip or press Enter while a tip is selected for more information about the tip.

## **SiSandra .Net Memory Latency results for WS2008:**

SiSoftware Sandra

Benchmark Results

Memory (Random Access) Latency : 87ns

Speed Factor : 54.70

Results Interpretation : Lower index values are better.

#### Performance vs. Speed

Memory (Random Access) Latency : 0.22ns/MHz

Results Interpretation : Lower index values are better.

#### Performance vs. Power

Chipset(s)/Memory Power : 21.46W

Memory (Random Access) Latency : 4.05ns/W

Results Interpretation : Lower index values are better.

#### Detailed Benchmark Results

1kB Range : 3clocks / 2ns

4kB Range : 3clocks / 2ns

16kB Range : 3clocks / 2ns

64kB Range : 3clocks / 2ns

256kB Range : 18clocks / 9ns

1MB Range : 23clocks / 12ns

4MB Range : 152clocks / 76ns

16MB Range : 160clocks / 80ns

64MB Range : 174clocks / 87ns

#### Performance Test Status

Run ID : VIA Apollo K8T800 CPU to PCI Bridge; 1x 1.5GB DDR PC3200 (2.5-4-4-6)

Platform Compliance : Win32 x86

System Timer : 3.58MHz

Memory Access : Random

## Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

## Chipset 1

Model : ASUS Apollo K8T800 CPU to PCI Bridge

Revision : A2

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

## Chipset 2

Model : AMD Athlon 64 / Opteron HyperTransport Technology Configuration

Revision : A1

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

## Logical/Chipset 2 Memory Banks

Bank 0 : 256MB DDR 2.5-4-4-6 CR1

Bank 1 : 256MB DDR 2.5-4-4-6 CR1

Bank 4 : 512MB DDR 2.5-4-4-6 CR1

Bank 5 : 512MB DDR 2.5-4-4-6 CR1

Channels : 1

Memory Bus Speed : 2x 200MHz (400MHz)



Multiplier : 1/10x

Width : 64-bit

Memory Controller in Processor : Yes

Cores per Memory Controller : 1 Unit(s)

Maximum Memory Bus Bandwidth : 3.13GB/s

## **SiSandra .Net Memory Latency results for Vista:**

SiSoftware Sandra

### Benchmark Results

Memory (Random Access) Latency : 96ns

Speed Factor : 54.40

Results Interpretation : Lower index values are better.

### Windows Experience Index

Current Chipset/Memory : 4.4

Results Interpretation : Higher index values are better.

### Performance vs. Speed

Memory (Random Access) Latency : 0.24ns/MHz

Results Interpretation : Lower index values are better.

### Performance vs. Power

Chipset(s)/Memory Power : 21.46W

Memory (Random Access) Latency : 4.47ns/W

Results Interpretation : Lower index values are better.

### Detailed Benchmark Results

1kB Range : 4clocks / 2ns

4kB Range : 4clocks / 2ns

16kB Range : 4clocks / 2ns

64kB Range : 4clocks / 2ns

256kB Range : 24clocks / 12ns

1MB Range : 27clocks / 14ns

4MB Range : 171clocks / 85ns

16MB Range : 177clocks / 88ns

64MB Range : 193clocks / 96ns

#### Performance Test Status

Run ID : VIA Apollo K8T800 CPU to PCI Bridge; 1x 1.5GB DDR PC3200 (2.5-4-4-6)

Platform Compliance : Win32 x86

System Timer : 3.58MHz

Memory Access : Random

#### Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

#### Chipset 1

Model : ASUS Apollo K8T800 CPU to PCI Bridge

Revision : A2

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

#### Chipset 2

Model : AMD Athlon 64 / Opteron HyperTransport Technology Configuration

Revision : A1

Front Side Bus Speed : 2x 800MHz (1.60GHz)

In/Out Width : 16-bit / 16-bit

Maximum Bus Bandwidth : 6.25GB/s

#### Logical/Chipset 2 Memory Banks

Bank 0 : 256MB DDR 2.5-4-4-6 CR1

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Channels : 1

Memory Bus Speed : 2x 200MHz (400MHz)

Multiplier : 1/10x

Width : 64-bit

Memory Controller in Processor : Yes

Cores per Memory Controller : 1 Unit(s)

Maximum Memory Bus Bandwidth : 3.13GB/s

## **SiSandra Multimedia results for WS2008:**

SiSoftware Sandra

#### Benchmark Results

Multi-Media Int x4 aEMMX/aSSE : 18278iit/s

Multi-Media Float x4 iSSE2 : 20665fit/s

Results Interpretation : Higher index values are better.

#### Performance vs. Speed

Multi-Media Int x4 aEMMX/aSSE : 9.13iit/s/MHz

Multi-Media Float x4 iSSE2 : 10.32fit/s/MHz

Results Interpretation : Higher index values are better.

#### Performance vs. Power

Processor(s) Power : 79.31W

Multi-Media Int x4 aEMMX/aSSE : 230.46iit/s/W

Multi-Media Float x4 iSSE2 : 260.56fit/s/W

Results Interpretation : Higher index values are better.

#### Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

Platform Compliance : Win32 x86

NUMA Support : No

SMP (Multi-Processor) Benchmark : No

Total Test Threads : 1

Multi-Core Test : No

SMT (Multi-Threaded) Benchmark : No

Processor Affinity : POC0T0

System Timer : 3.58MHz

Rendered Image Size : 640x480

#### Processor

Model : AMD Athlon(tm) 64 Processor 3200+

Speed : 2.00GHz

Model Number : 3200

Cores per Processor : 1 Unit(s)

L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

#### Features

SSE Technology : Yes

SSE2 Technology : Yes

SSE3 Technology : No

Supplemental SSE3 Technology : No

SSE4.1 Technology : No

SSE4.2 Technology : No

EMMX - Extended MMX Technology : Yes

SSE4A Technology : No

HTT - Hyper-Threading Technology : No

#### Performance Tips

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### **SiSandra Multimedia results for Vista:**

SiSoftware Sandra

#### Benchmark Results

Multi-Media Int x4 aEMMX/aSSE : 18209iit/s

Multi-Media Float x4 iSSE2 : 20569fit/s

Results Interpretation : Higher index values are better.

## Windows Experience Index

Current Processor(s) : 4.1

Results Interpretation : Higher index values are better.

## Performance vs. Speed

Multi-Media Int x4 aEMMX/aSSE : 9.09iit/s/MHz

Multi-Media Float x4 iSSE2 : 10.27fit/s/MHz

Results Interpretation : Higher index values are better.

## Performance vs. Power

Processor(s) Power : 79.31W

Multi-Media Int x4 aEMMX/aSSE : 229.59iit/s/W

Multi-Media Float x4 iSSE2 : 259.35fit/s/W

Results Interpretation : Higher index values are better.

## Performance Test Status

Run ID : AMD Athlon(tm) 64 Processor 3200+ (2.00GHz, 1MB L2)

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Speed : 2.00GHz

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L2 On-board Cache : 1MB, ECC, Synchronous, Write-Back, 16-way, 64 byte line size

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