



DMP x86 CPU Bench Test Report

Date: 2010/06/07

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Subjection:

**2009/03/23 Test the performance of DMP VORTEX86 and AMD LX800.

**2009/08/13 added one platform A9111 (new version of MX)

**2010/05/28 added one more platform MX+ (new version of MX)

**2010/06/07 added Intel Atom platform.

Test Platform:

A. Platform model: VDX-6390

CPU model: Vortex86DX

CPU clock: 1000 MHz

Memory: 512MB

OS: Windows XP Professional Service Pack 3 [5.1 Build 2600]

B. Platform model: VMX-6490

CPU model: Vortex86MX

CPU clock: 1000 MHz

Memory: 512MB

OS: Windows XP Professional Service Pack 2 [5.1 Build 2600]

C. Platform model: A9111

CPU model: Vortex86MX

CPU clock: 1000 MHz

Memory: 512MB

OS: Windows XP Professional

D. Platform model: VMX-6590 MX+

CPU model: Vortex86MX+

CPU clock: 1000 MHz

Memory: 512MB

OS: Windows XP Professional

E. Platform model: Intel Atom 230 1.6Ghz

CPU model: Intel Atom 230 1.6Ghz

CPU clock: 1.6 GHz

Memory: 1.0 GB

OS: Windows XP Professional Version 2002 Service pack2

F. Platform model: KONTRON FX-LX (LX800)



CPU model: AMD Geode LX

CPU clock: 498.06 MHz

Memory: 504 MB

OS: Windows XP Professional Service Pack 3 [5.1 Build 2600]

Test Software:

1.  CrystalMark 2004R3 [0.9.126.451]
2.  CPUmark™ 99 Version 1.0 32-bit Version







Test Result:

1.  CrystalMark 2004R3 [0.9.126.451]

Ranking	1 st	2 nd	3 rd	4 th	5 th	6 th
	<u>Intel Atom</u> 	<u>Vortex86MX+</u> 	<u>Vortex86MX</u> 	<u>A9111</u> 	<u>AMD LX800</u> 	<u>Vortex86DX</u> 
CrystalMark	22948	12460	6922	6639	5791	4624
ALU	5924	1967	1484	1502	1014	1264
Fibonacci	2353	646	526	533	263	490
Napierian	867	357	314	317	207	280
Eratosthenes	1112	372	221	219	223	189
QuickSort	1570	570	401	411	299	283
FPU	5413	924	756	763	751	624
MikoFPU	736	54	54	52	78	50
RandMeanSS	2800	578	421	432	398	312
FFT	1101	215	206	204	188	190
Mandelbrot	754	55	53	53	65	50

MEM	4251	1061	589	594	794	516
Read	1853.61 MB/s (1853)	269.95 MB/s (269)	173.31 MB/s (173)	150.04 MB/s (150)	146.13 MB/s (146)	152.39 MB/s (152)
Write	983.01 MB/s (983)	454.51 MB/s (454)	281.80 MB/s (281)	288.99 MB/s (288)	435.78 MB/s (435)	239.70 MB/s (239)
Read/Write	996.14 MB/s (996)	231.38 MB/s (231)	85.65 MB/s (85)	105.41 MB/s (105)	121.75 MB/s (121)	79.61 MB/s (79)
Cache	3973.37 MB/s (397)	851.36 MB/s (85)	286.38 MB/s (28)	290.26 MB/s (29)	700.98 MB/s (70)	242.94 MB/s (24)

2.  CPUmark™ 99 Version 1.0 32-bit Version

Ranking	1st	2nd	3rd	4th	5th	6th
	<u>Intel Atom</u> 	<u>Vortex86MX+</u> 	<u>AMD LX800</u> 	<u>A9111</u> 	<u>Vortex86MX</u> 	<u>Vortex86DX</u> 
Score	112	59.6	39.1	31.6	30.5	24.5