



CINT2000 Result

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Supermicro PDSM4/E Motherboard

SPECint2000 = 1490
SPECint_base2000 = 1492

SPEC license #01176 Tested by: Supermicro Test date: Aug-2005 Hardware Avail: Aug-2005 Software Avail: Apr-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	131	1069	132	1057	[Bar chart]			
175.vpr	1400	145	963	144	974	[Bar chart]			
176.gcc	1100	61.5	1787	61.5	1787	[Bar chart]			
181.mcf	1800	122	1477	122	1477	[Bar chart]			
186.crafty	1000	84.3	1186	84.8	1179	[Bar chart]			
197.parser	1800	142	1272	142	1272	[Bar chart]			
252.eon	1300	64.8	2007	64.9	2003	[Bar chart]			
253.perlbmk	1800	93.1	1934	93.3	1929	[Bar chart]			
254.gap	1100	62.4	1763	62.4	1763	[Bar chart]			
255.vortex	1900	74.7	2542	74.7	2542	[Bar chart]			
256.bzip2	1500	139	1083	139	1083	[Bar chart]			
300.twolf	3000	191	1571	192	1563	[Bar chart]			

Hardware

CPU: Intel Pentium D 840 Processor (3.2GHz, 800 MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 12k micro-ops I + 16KBD/core on chip
Secondary Cache: 1024KB/core on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4 X 1024MB DDR2-667 ECC Unbuffered
Disk Subsystem: 1 X IDE Maxtor DiamondMax Plus 9 250GB
Other Hardware: N/A

Software

Operating System: Windows 2003 Enterprise Server
Compiler: Intel C++ Compiler 9.0 Build 20050430Z (32-bit)
Microsoft Visual Studio .Net 2003(for libraries)
SmartHeap Library Version 7.4 from <http://www.microquill.com/>
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -fast +FDO shlw32M.lib
Base tuning for C++ programs: -fast -Qcxx_features +FDO
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
252.eon: Approved stdcpp src.alt used
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -fast -Qansi_alias -Oa +FDO
175.vpr: -fast -Qansi_alias +FDO
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: -fast -Qansi_alias -Oa +FDO
197.parser: -fast -Qansi_alias +FDO
252.eon: -fast +FDO
253.perlbmk: -fast -Qansi_alias +FDO shlw32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
```



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PDSM4/E Motherboard

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Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll1 +FDO

300.twolf: -fast -O3 +FDO shlw32M.lib

New 32-bit Windows tools used, approved in May-2005

Tested system was built with 2U SC823S-R500LP Chassis. For a general system, a 420W (minimum) ATX12V power supply [4-pin +12V AND 24-pin is recommended to assure system stability].

Product description located as of:

<http://www.supermicro.com/products/motherboard/DualCore/E7230/PDSM4.cfm>

The system bus runs at 800MHz