



CINT2000 Result

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Supermicro PDSM4/E Motherboard

SPECint_rate2000 = 32.8

SPECint_rate_base2000 = 32.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	133	24.5	2	134	24.2
175.vpr	2	156	20.8	2	152	21.4
176.gcc	2	64.3	39.7	2	64.3	39.7
181.mcf	2	170	24.6	2	170	24.6
186.crafty	2	85.3	27.2	2	85.7	27.1
197.parser	2	145	28.9	2	145	28.9
252.eon	2	65.1	46.3	2	65.2	46.2
253.perlbnk	2	94.4	44.2	2	94.8	44.1
254.gap	2	65.1	39.2	2	65.1	39.2
255.vortex	2	77.5	56.9	2	77.5	56.9
256.bzip2	2	145	23.9	2	145	24.0
300.twolf	2	193	36.0	2	193	36.1

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.perlbnk: -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.perlbnk: -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