



CINT2000 Result

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Supermicro
PDSMA Motherboard

SPECint_rate2000 = 28.8
SPECint_rate_base2000 = 28.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	152	21.4	2	153	21.2
175.vpr	2	175	18.5	2	173	18.8
176.gcc	2	72.5	35.2	2	72.5	35.2
181.mcf	2	175	23.9	2	175	23.9
186.crafty	2	98.7	23.5	2	99.2	23.4
197.parser	2	165	25.3	2	165	25.3
252.eon	2	74.9	40.3	2	75.1	40.2
253.perlbnk	2	109	38.4	2	109	38.2
254.gap	2	75.6	33.8	2	75.6	33.8
255.vortex	2	89.3	49.4	2	89.3	49.4
256.bzip2	2	164	21.2	2	165	21.1
300.twolf	2	225	31.0	2	224	31.1

Hardware

CPU: Intel Pentium D 840 Processor (3.2 GHz, 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 (on chip) per core
Secondary Cache: 1024KB(on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 4 x 1.0GB Hynix DDR2 667MHz
Disk Subsystem: 400GB Hitachi HDS724040KLSA80 SATA HDD
Other Hardware: N/A

Software

Operating System: Windows Server 2003 Enterprise Server w/SP1
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 shlw32M.lib
shlw32M.lib is the SmartHeap Library
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
```



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Notes/Tuning Information (Continued)

255.vortex basepeak=yes

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. To ensure system stability, a 350W (minimum) ATX power supply [8-pin +12V AND (20 or 24-pin)] is required

Product description located as of:

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

The system bus runs at 800MHz