



# CINT2000 Result

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## Supermicro X6DHR-3G2 Motherboard

SPECint\_rate2000 = 42.7  
SPECint\_rate\_base2000 = 42.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	170	38.3	4	173	37.7
175.vpr	4	238	27.4	4	235	27.7
176.gcc	4	88.5	57.7	4	88.5	57.7
181.mcf	4	322	26.0	4	322	26.0
186.crafty	4	138	33.7	4	137	33.8
197.parser	4	198	42.1	4	197	42.3
252.eon	4	110	54.9	4	110	54.7
253.perlbnk	4	173	48.4	4	173	48.2
254.gap	4	108	47.1	4	108	47.1
255.vortex	4	127	69.4	4	127	69.4
256.bzip2	4	190	36.6	4	191	36.5
300.twolf	4	263	52.9	4	264	52.7

### Hardware

CPU: Intel Xeon Processor (3.80 GHz, 2MB L2, 800 MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip(Hyper-Threading Technology Enabled)  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 12k micro-ops I + 16KBD on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 2.0GB SMART DDR2 400MHz ECC  
Disk Subsystem: 1 X 250GB Western Digital WD2500JD-00GBB0 SATA HDD  
Other Hardware: N/A

### Software

Operating System: Windows Server 2003 EE 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 SC813T-500 Chassis.  
Product description located as of:  
<http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHR-3G2.cfm>  
The system bus runs at 800MHz