



# CINT2000 Result

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Advanced Micro Devices  
ASUS SK8N Motherboard, AMD Opteron (TM) 148

SPECint2000 = 1477  
SPECint\_base2000 = 1405

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Nov-2003 Hardware Avail: Dec-2003 Software Avail: Dec-2002

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 116          | 1203       | 113     | 1237  |  |
| 175.vpr     | 1400           | 115          | 1215       | 115     | 1215  |  |
| 176.gcc     | 1100           | 76.9         | 1430       | 68.9    | 1596  |  |
| 181.mcf     | 1800           | 166          | 1084       | 166     | 1081  |  |
| 186.crafty  | 1000           | 66.5         | 1504       | 66.4    | 1506  |  |
| 197.parser  | 1800           | 133          | 1355       | 133     | 1358  |  |
| 252.eon     | 1300           | 81.4         | 1597       | 69.4    | 1873  |  |
| 253.perlbnk | 1800           | 123          | 1461       | 114     | 1583  |  |
| 254.gap     | 1100           | 70.9         | 1552       | 70.9    | 1551  |  |
| 255.vortex  | 1900           | 87.1         | 2182       | 87.1    | 2182  |  |
| 256.bzip2   | 1500           | 127          | 1185       | 119     | 1262  |  |
| 300.twolf   | 3000           | 219          | 1368       | 186     | 1611  |  |

### Hardware

CPU: AMD Opteron (TM) 148  
CPU MHz: 2200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2x512MB PC3200 DDR SDRAM, ECC Registered  
Disk Subsystem: Western Digital WD2000, IDE  
Other Hardware: None

### Software

Operating System: Microsoft Windows XP Professional SP1a  
Compiler: Intel C/C++ 7.0 build 20021212Z  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
MicroQuill Smartheap Library 6.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

shlw32M6.lib is the SmartHeap library V6.0 from MicroQuill [www.microquill.com](http://www.microquill.com)

+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Portability:

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafty: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

Baseline C:

+FDO -O3 -QxW -Qipo

Baseline C++:

+FDO -Qipo -GX -GR

Peak tuning:

164.gzip: +FDO -O3 -QaxK -Qipo -Oi-  
175.vpr: +FDO -O3 -QxW -Qipo  
176.gcc: +FDO -O3 -QxK -Qipo -Oi-  
181.mcf: +FDO -Qipo -Oa  
186.crafty: +FDO -O3 -QxW -Qipo  
197.parser: +FDO -O3 -QxW -Qipo -Oa  
252.eon: +FDO -O3 -QaxW -Qipo -Zp4  
253.perlbnk: +FDO -O3 -Qipo -Oa shlw32M6.lib  
254.gap: +FDO -O3 -QxW -Qipo  
255.vortex: basepeak=1



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|--------------------|------|
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## Notes/Tuning Information (Continued)

256.bzip2: +FDO -Qipo -Oa -Qunroll1  
300.twolf: +FDO -Qxi -Qipo shlw32M6.lib

ONESTEP is used for all base and peak runs

The tested system can be assembled using an ATX case such as the Antec KS-282, a 480W power supply, and a PCI or AGP video card.