



# CINT2000 Result

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Einix  
A4800

SPECint\_rate2000 = 13.6

SPECint\_rate\_base2000 = 12.7

SPEC license #: 49 | Tested by: AMD Austin TX | Test date: Apr-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	143	11.3	1	139	11.7
175.vpr	1	147	11.1	1	145	11.2
176.gcc	1	95.0	13.4	1	84.8	15.1
181.mcf	1	293	7.13	1	259	8.07
186.crafty	1	81.3	14.3	1	81.3	14.3
197.parser	1	172	12.1	1	169	12.4
252.eon	1	101	14.9	1	85.8	17.6
253.perlbnk	1	153	13.6	1	141	14.8
254.gap	1	89.8	14.2	1	89.8	14.2
255.vortex	1	109	20.1	1	109	20.1
256.bzip2	1	155	11.2	1	146	12.0
300.twolf	1	266	13.1	1	225	15.5

### Hardware

CPU: AMD Opteron 144, 1.8 GHz  
 CPU MHz: 1800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1,2,4  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x512MB PC2700 DDR ECC Registered SDRAM CL2.5  
 Disk Subsystem: IDE 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition  
 Compiler: Intel C/C++ 7.0 build 20021212Z  
 Microsoft Visual Studio .NET (libraries) 7.0.9466  
 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)

+FD0: 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:

+FD0 -O3 -QxW -Qipo

Baseline C++:

+FD0 -Qipo -GX -GR

Peak tuning:

164.gzip: +FD0 -O3 -QaxK -Qipo -Oi-  
 175.vpr: +FD0 -O3 -QxW -Qipo  
 176.gcc: +FD0 -O3 -QxK -Qipo -Oi-  
 181.mcf: +FD0 -Qipo -Oa  
 186.crafty: +FD0 -O3 -QxW -Qipo  
 197.parser: +FD0 -O3 -QxW -Qipo -Oa  
 252.eon: +FD0 -O3 -QaxW -Qipo -Zp4  
 253.perlbnk: +FD0 -O3 -Qipo -Oa shlw32M6.lib  
 254.gap: +FD0 -O3 -QxW -Qipo  
 255.vortex: basepeak=1



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## Notes/Tuning Information (Continued)

256.bzip2:           +FD0               -Qipo -Oa   -Qunroll1  
300.twolf:           +FD0           -Qxi -Qipo       shlw32M6.lib  
ONESTEP is used for all base and peak runs