



# CINT2000 Result

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Einix  
A4800

SPECint2000 = 1053  
SPECint\_base2000 = 991

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	161	872	155	901	
175.vpr	1400	162	865	160	875	
176.gcc	1100	106	1042	94.6	1163	
181.mcf	1800	305	591	274	658	
186.crafty	1000	91.4	1094	91.4	1094	
197.parser	1800	189	951	187	962	
252.eon	1300	114	1138	96.0	1354	
253.perlbmk	1800	172	1050	158	1142	
254.gap	1100	100	1096	100.0	1101	
255.vortex	1900	122	1561	122	1561	
256.bzip2	1500	170	880	161	934	
300.twolf	3000	292	1026	253	1185	

### Hardware

CPU: AMD Opteron 142, 1.6 GHz  
 CPU MHz: 1600  
 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 Reg 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.perlbmk: -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.perlbmk: +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