



# CINT2000 Result

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**Advanced Micro Devices**  
Gigabyte GA-7DX Motherboard, AMD Athlon (TM) XP 1800+

SPECint2000 = **644**  
SPECint\_base2000 = **621**

SPEC license #: 49 | Tested by: AMD Austin TX | Test date: Sep-2001 | Hardware Avail: Oct-2001 | Software Avail: Jul-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	185	756	184	760	
175.vpr	1400	362	387	337	416	
176.gcc	1100	266	414	222	496	
181.mcf	1800	631	285	630	286	
186.crafty	1000	111	900	111	900	
197.parser	1800	323	557	323	558	
252.eon	1300	105	1233	95.0	1369	
253.perlbmk	1800	194	929	194	929	
254.gap	1100	155	708	156	707	
255.vortex	1900	199	956	197	966	
256.bzip2	1500	292	513	278	540	
300.twolf	3000	628	478	618	485	

### Hardware

CPU: AMD Athlon (TM) XP 1800+  
 CPU MHz: 1533  
 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: 256KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x128MB PC2100 DDR SDRAM CL2  
 Disk Subsystem: IBM DPTA-372020  
 Other Hardware: None

### Software

Operating System: Windows 2000 SP1  
 Compiler: Intel C/C++ 5.0.1 build 010525Z  
 Microsoft Visual Studio 6.0 SP5 (libraries)  
 MicroQuill SmartHeap Library 5.0  
 File System: FAT32  
 System State: Default

## Notes/Tuning Information

shlW32M.lib is the SmartHeap library V5.0 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.perlbmk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
 254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO  
 Baseline C: -QxK -Qipo +FDO shlW32M.lib  
 Baseline C++: -QxK -Qipo -GX -GR

Peak tuning:

164.gzip: -O3 -QxK -Qwp\_ipo -Oi- +FDO  
 175.vpr: -O3 -Qxi -QaxK -Qwp\_ipo +FDO  
 176.gcc: -O3 -QxK -Qwp\_ipo -Oi- +FDO shlW32M.lib  
 181.mcf: -O3 -Qxi -QaxK -Qwp\_ipo +FDO  
 186.crafty: -O3 -QxK -Qwp\_ipo -Oa +FDO shlW32M.lib  
 197.parser: -O3 -Qxi -QaxK -Qwp\_ipo +FDO  
 252.eon: -O3 -QxiM -Qwp\_ipo +FDO  
 253.perlbmk: -QxK -Qipo +FDO shlW32M.lib  
 254.gap: -O3 -QxK -Qipo -Oi- +FDO shlW32M.lib  
 255.vortex: -O3 -QxK -Qwp\_ipo +FDO shlW32M.lib



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SPECint\_base2000 = 621

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## Notes/Tuning Information (Continued)

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256.bzip2:    -O3 -QxK -Oa -Qwp_ipo
300.twolf:    -O3 -QxK -Qipo -Oa +FDO shlw32M.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 300W power supply such as the Sparkle FSP300-60GT, and a PCI or AGP video card. The System bus runs at 266MHz