



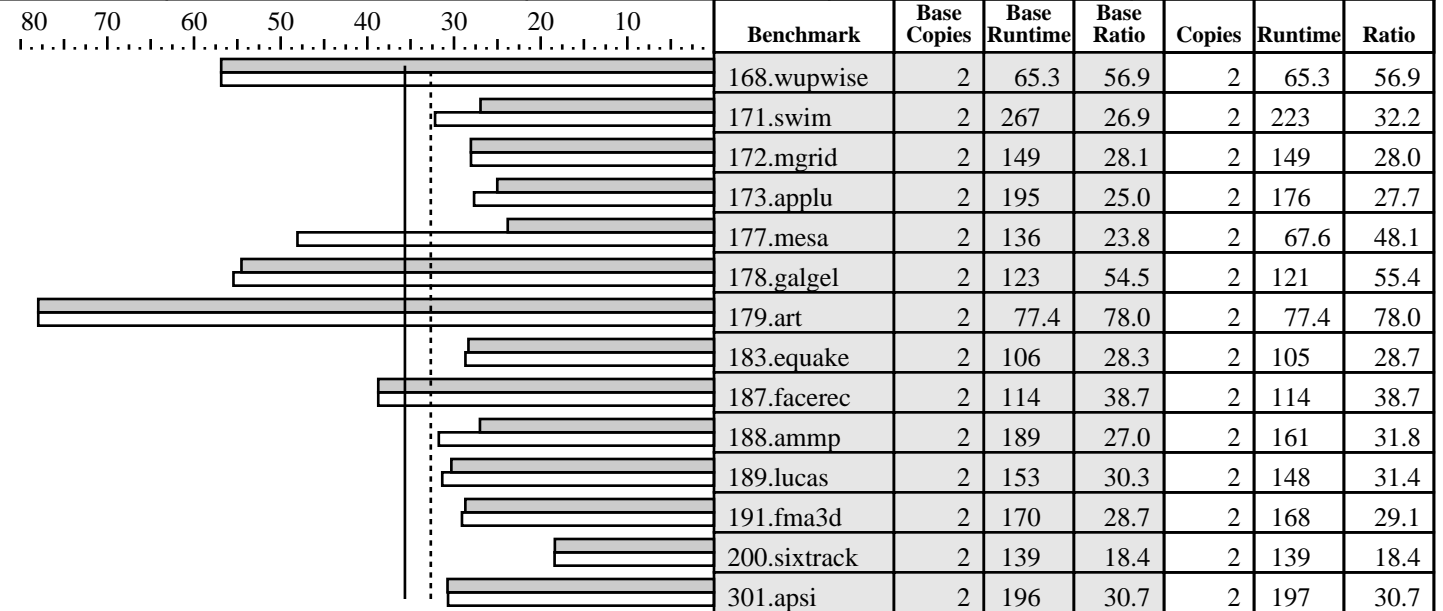
# CFP2000 Result

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Advanced Micro Devices  
TYAN Tomcat K8E (S2865), AMD Opteron(TM) 185

SPECfp\_rate2000 = 35.7  
SPECfp\_rate\_base2000 = 32.7

SPEC license #: 49 | Tested by: AMD, Austin, Texas | Test date: Feb-2006 | Hardware Avail: Mar-2006 | Software Avail: Oct-2005



### Hardware

CPU: AMD Opteron(TM) 185 (939-pin)  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1  
 Parallel: no  
 Primary Cache: 64KBI + 64KBD (on chip) per core  
 Secondary Cache: 1024KB (I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x512MB, DDR400 CL2  
 Disk Subsystem: SATA, 250 GB  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise edition SP1 (32-bit)  
 Compiler: Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)  
 File System: NTFS  
 System State: default

## Notes/Tuning Information

+FDO:  
 icl, ifort : PASS1=-Qprof\_gen PASS2=-Qprof\_use  
 pgf90 : PASS1=-Mpfi PASS2=-Mpfo  
 ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and  
 pgf90 is the PGI Fortran 90 compiler.  
 pgcc is the PGI C compiler.  
 ONESTEP is set to 1 for every compile with the PGI compilers.  
 Portability:  
 178.galgel: -Mfixed  
 Baseline: C : pgcc -fastsse -Mipa=fast,inline  
 Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline +FDO  
 Peak tuning:  
 168.wupwise: pgf90 -fastsse -Mipa=fast,inline -Mvect  
 171.swim: ifort -Qipo -O3 -QaxN -QxW -Qunroll0 +FDO  
 172.mgrid: pgf90 -fastsse -Mipa=fast,inline  
 173.applu: ifort -Qipo -O3 -QaxN -QxW -auto +FDO  
 177.mesa: icl -Qipo -QxW -Qunroll1 -Qansi\_alias +FDO



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## Notes/Tuning Information (Continued)

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-Option,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
178.galgel:          pgf90  -fastsse -Mipa=fast,safe -Munix -lacml
                    RM_SOURCES=lapak.f90
179.art:             pgcc    basepeak=yes
183.equake:          icl     -O3 -Qipo -QxW +FDO
187.facerec:         pgf90  basepeak=1
188.amp:             icl     -Oa  -QxW  -Zp4 -Qansi_alias
189.lucas:           ifort   -Qipo -QxW -Qunroll1
191.fma3d:           pgf90  -Mipa=fast,inline -fastsse -Mnovect +FDO
200.sixtrack:        pgf90  -fastsse -Mipa=fast,inline
301.apsi:            pgf90  -fastsse -Mipa=fast,inline

```

Corsair CMX512-3200XL memory used in Dual Channel configuration.

Memory timings manually set in BIOS: Command Rate=1T

BIOS rev 3.00

The tested system can be assembled using a standard ATX case and an Antec True 550 watt EPS12V Power Supply.