



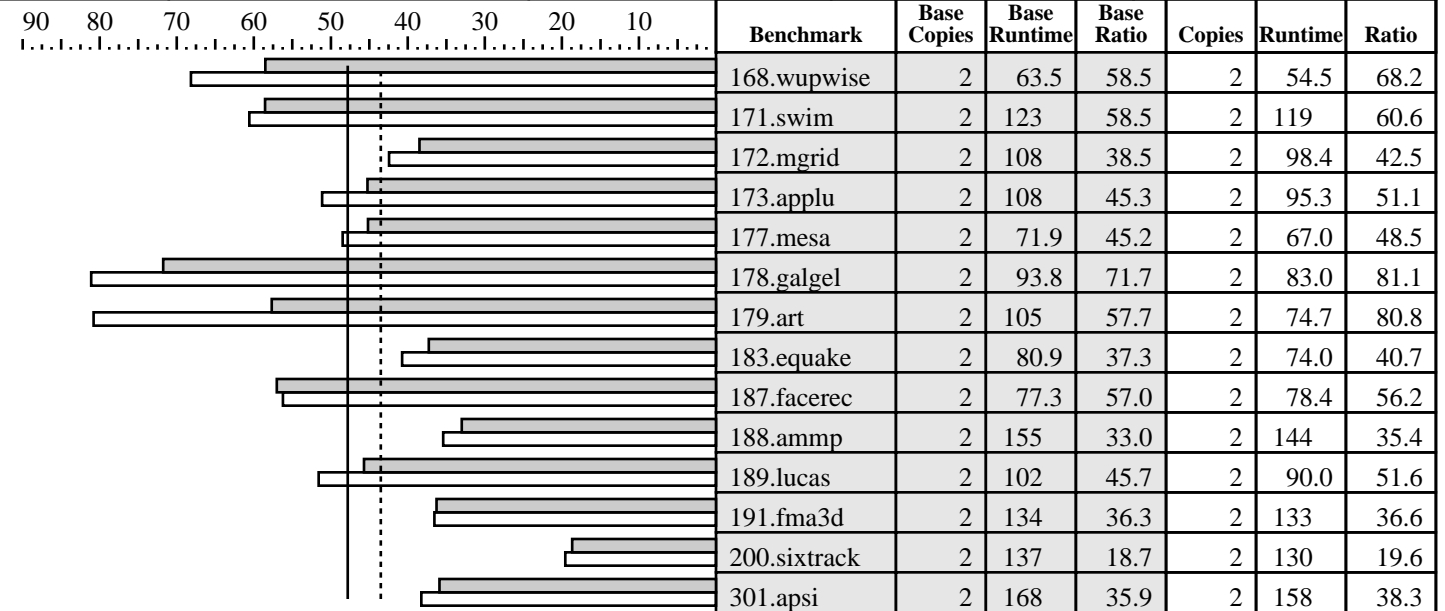
# CFP2000 Result

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Fujitsu Siemens Computers  
PRIMERGY RX220, AMD Opteron (TM) 250

SPECfp\_rate2000 = 47.8  
SPECfp\_rate\_base2000 = 43.5

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Jan-2006 Hardware Avail: Dec-2005 Software Avail: Aug-2005



### Hardware

CPU: AMD Opteron (TM) 250 processor (2.40 GHz)  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB (I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x2048MB DDR-RAM PC3200R CL3-3-3  
 Disk Subsystem: Western Digital WD2500 (SATA, 7.2krpm)  
 Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Server 9 (x86\_64) SP 2  
 SuSE Kernel 2.6.5-7.191-smp  
 Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.3  
 (for C and Fortran)  
 AMD Core Mathematical Library (ACML), Version 3.0.0  
 File System: Linux/reiserfs  
 System State: Multi-user run level 3

## Notes/Tuning Information

### GENERAL

+FDO: PASS1= -fb\_create fbdata PASS2= -fb\_opt fbdata  
 +ACML: Linked with AMD Core Math Library

### Portability flags

178.galgel: -fixedform

### Base tuning flags

for Fortran programs: -Ofast -LNO:fusion=2 -OPT:fast\_complex=on +FDO  
 for C programs: -Ofast -WOPT:mem\_opnds=on +FDO

### Peak tuning flags

168.wupwise: -Ofast -LNO:prefetch Ahead=5:prefetch=3  
 -OPT:unroll\_times\_max=8:unroll\_size=128:IEEE\_NaN\_Inf=off:ro=3  
 -IPA:linear=on:plimit=50000:callee\_limit=5000 -INLINE:aggressive=on  
 171.swim: -Ofast -CG:local\_fwd\_sched=on -LNO:fusion=2 -m3dnow  
 172.mgrid: -Ofast -CG:gcm=off -OPT:IEEE\_a=3:unroll\_size=200



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## Notes/Tuning Information (Continued)

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-LNO:fusion=2:fission=1:blocking=off:prefetch Ahead=2
-WOPT:mem_opnds=on:aggstr=0
173.applu: -Ofast -CG:local_fwd_sched=on -OPT:ro=3 -TENV:X=3
-LNO:fusion=2:fission=2:full_unroll_size=10000:prefetch=3 +FDO
177.mesa: -O2 -ipa -OPT:Ofast -fno-math-errno -CG:local_fwd_sched=on
-WOPT:mem_opnds=on +FDO
178.galgel: -Ofast -OPT:fast_complex=on +ACML +FDO
AMD Core Math Library
+ACML means -L<acml-install-dir>/pathscale64/lib -lacml,
which causes linking with AMD Core Math Library
179.art: -O3 -OPT:Ofast -fno-math-errno -mno-sse2 -m32
183.equake: -Ofast -CG:load_exe=2 -WOPT:mem_opnds=on -m32 +FDO
187.facerec: -Ofast -LNO:fusion=2
-OPT:fast_complex=on:IEEE_NaN_Inf=off:unroll_size=0 +FDO
188.ammp: -O3 -OPT:alias=disjoint:unroll_times_max=8:Ofast:ro=3
-fno-math-errno -TENV:X=4 +FDO
189.lucas: -Ofast -OPT:ro=3:fast_nint=off:unroll_size=256
-WOPT:mem_opnds=on +FDO
191.fma3d: -O2 -ipa -CG:load_exe=1 -OPT:Ofast:IEEE_arith=3:ro=3
-WOPT:mem_opnds=on:retype_expr=on -IPA:pu_reorder=1 +FDO
200.sixtrack: -O3 -OPT:Ofast:Olimit=6000:early_intrinsics=on
-fno-math-errno -CG:load_exe=1 +FDO
301.apsi: -Ofast -CG:load_exe=0 -LNO:prefetch=0:simd=

```

MYMASK=`printf '0x%x' \\${(1<<\\$SPECUSERNUM)}`; /usr/bin/taskset \\$MYMASK \$command:  
Taskset utility used to bind process to CPU(s)

BIOS settings: Memory timing=1T

This result was measured with 64-bit binaries using the 64-bit version of the operating system.

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