



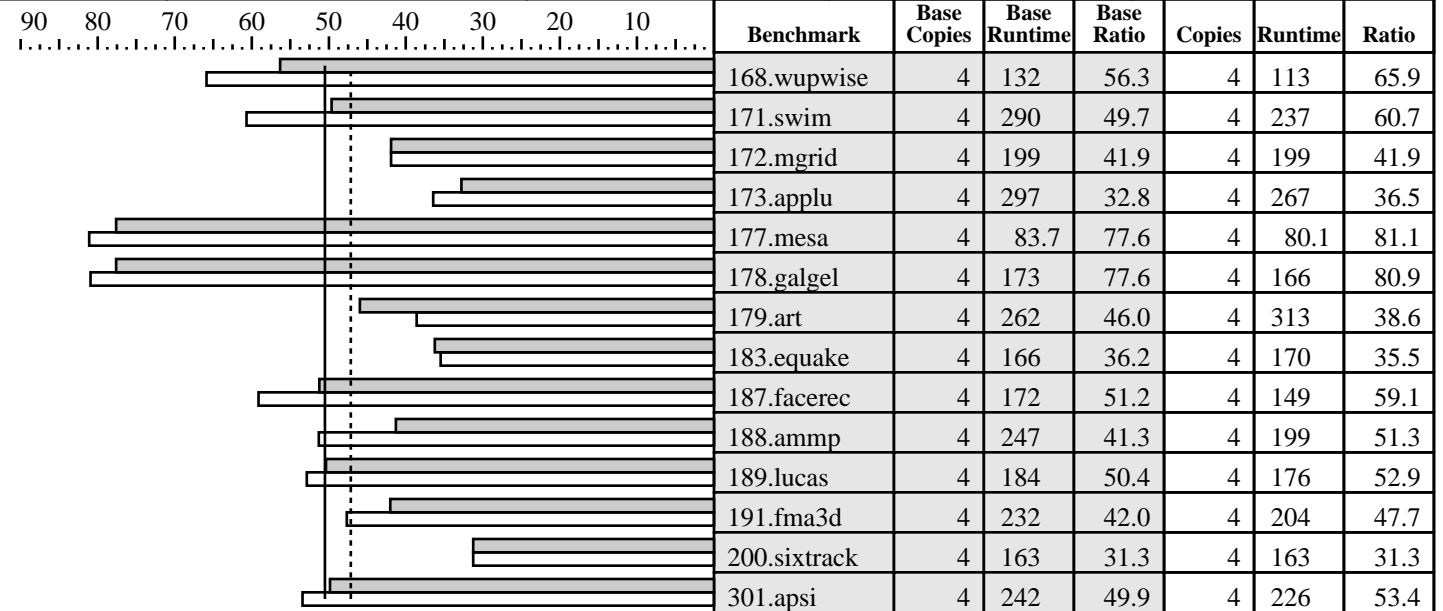
CFP2000 Result

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Verari Systems
QuatreX-64 (TM), AMD Opteron (TM) 850

SPECfp_rate2000 = 50.5
SPECfp_rate_base2000 = 47.2

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Apr-2004 | Hardware Avail: Jun-2004 | Software Avail: Apr-2004



Hardware

CPU: AMD Opteron (TM) 850
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 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: 8x512 MB PC3200 DDR SDRAM CL3.0
 Disk Subsystem: SCSI, Ultra 320, 10k rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition
 Compiler: Intel C++ 8.0 build 20031229Z,
 Intel Fortran 8.0 build 20031017Z,
 PGI Fortran compiler 5.1-3 for Windows XP,
 AMD Core Math library Version 2.0 (ACML),
 Microsoft Visual Studio .NET 7.0.9466 (libraries),
 MicroQuill Smartheap Library 6.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

Tested by AMD

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
+ACML is the AMD Core Math Library V2.0
ONESTEP is set for all peak runs.
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
pgf90 is the PGI Fortran compiler.
Portability:
  178.galgel: -Mfixed
Baseline: C      : icl -fast -arch:SSE2 -QaxW +FDO
Baseline: Fortran: pgf90 -fastsse -Mipa=fast
168.wupwise: pgf90 -fastsse -Mipa=fast -Minline=levels:2
171.swim: ifort -O3 -QxW +FDO
172.mgrid: pgf90 basepeak=yes
177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias
          -Qoption,f,-ip_ninl_max_stats=1500 -Qoption,f,-ip_ninl_max_total_stats=4500
178.galgel: pgf90 -fastsse -O3 RM_SOURCES=lapak.f90 -Munix +ACML
179.art: icl -Qipo -Zp4 +FDO
```



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Notes/Tuning Information (Continued)

```
183.equake:      icl  -fast -arch:SSE2 -QaxW +FDO -Qansi_alias
187.facerec:    ifort -fast                -QxW  +FDO
188.ammp:       icl  -Oa  -arch:SSE2 -Zp4          -Qansi_alias
189.lucas:      ifort                -QxW          -Qunroll1
191.fma3d:      ifort -fast                -QxW  +FDO -Qscalar_rep-
                -Qoption,f,-ip_ninl_max_stats=1000 -Qoption,f,-ip_ninl_max_total_stats=3500
200.sixtrack:   pgf90 basepeak=yes
301.apsi:       ifort -fast                -QxW  +FDO
BIOS rev.: PQTDX0-C
```