



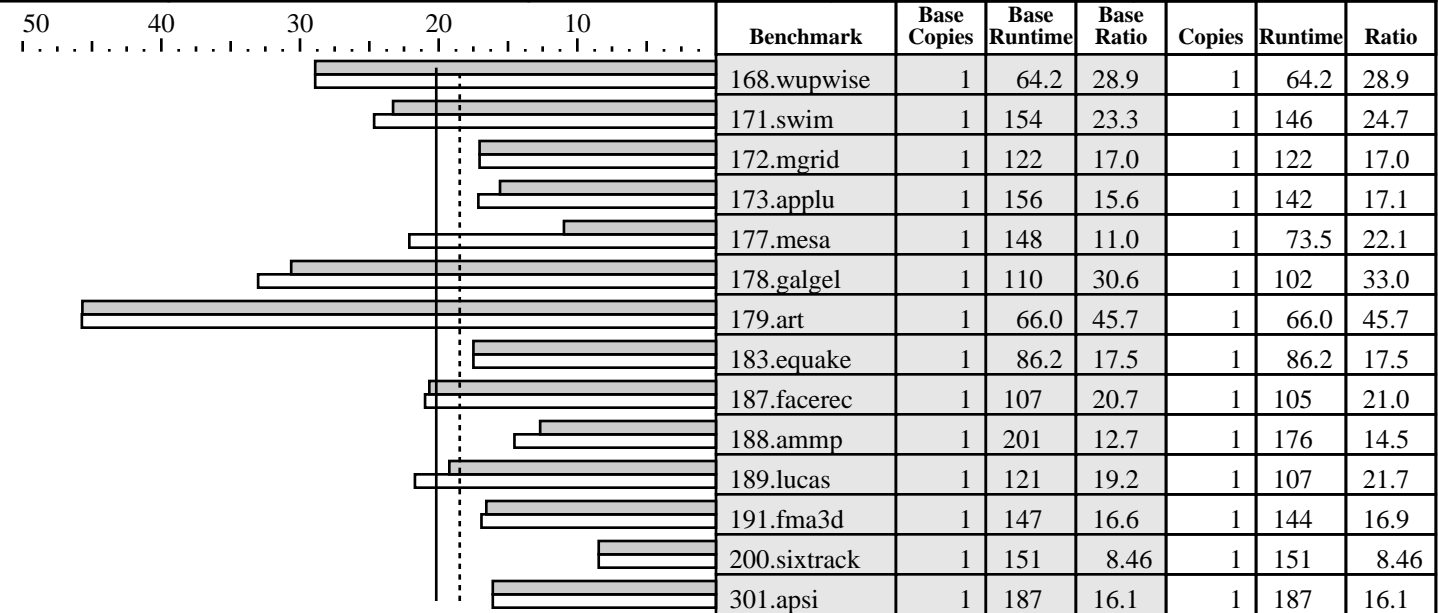
# CFP2000 Result

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Hewlett-Packard Company  
ProLiant BL35p (AMD Opteron (TM) 280)

SPECfp\_rate2000 = 20.2  
SPECfp\_rate\_base2000 = 18.5

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Feb-2006



### Hardware

CPU: AMD Opteron (TM) 280  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2  
 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: 2x2048MB PC3200 CL3.0  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20060120Z)  
 Intel Fortran Compiler for 32-bit applications, (Version 9.0 build 20060120Z)  
 PGI Fortran compiler 6.0-4 for Windows XP (32-bit)  
 PGI C compiler 6.0-4 for Windows XP (32-bit)  
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
 AMD Core Math Library V3.0.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use (Intel compiler)
+FDO*: PASS1=-Mpfi PASS2=-Mpfo (PGI compiler)
+ACML is linking with AMD Core Math Library V3.0.0
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler; and
pgf90 is the PGI Fortran compiler, pgcc is the PGI C compiler.
Base tuning for C programs: pgcc -fastsse -Mipa=fast,inline
Base tuning for FORTRAN programs: pgf90 -fastsse -Mipa=fast,inline +FDO* ONESTEP=1
Portability flags:
  178.galgel: -Mfixed
Peak tuning:
  168.wupwise: pgf90 basepeak=yes
  171.swim: ifort -Qipo -O3 -QaxN -QxW +FDO -Qunroll0 ONESTEP=1
  172.mgrid: pgf90 basepeak=yes
  173.applu: ifort -Qipo -O3 -QaxN -QxW +FDO -auto ONESTEP=1
  177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias ONESTEP=1
  -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
  178.galgel: pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML ONESTEP=1
```



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## Notes/Tuning Information (Continued)

```

179.art:          pgcc -fastsse -Mipa=fast,inline
183.equake:       icl  basepeak=yes
187.facerec:      ifort -Qipo          -QxW +FDO -Qunroll3 ONESTEP=1
                  -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.amp:          icl  -Oa -arch:SSE2 -Zp4          -Qansi_alias ONESTEP=1
189.lucas:        ifort -Qipo          -QxW          -Qunroll1 ONESTEP=1
191.fma3d:        ifort -Qipo          -QaxN -QxW +FDO -Qansi-alias- ONESTEP=1
200.sixtrack:     pgf90 basepeak=yes
301.apsi:         pgf90 basepeak=yes

```

BIOS Configuration Notes  
Node Interleaving is Disabled

Other Configuration Notes  
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.