## CFP2000 Result

**Hewlett-Packard Company**

ProLiant BL465c (AMD Opteron (TM) 2218)  

**SPECfp2000** = 1939  
**SPECfp_base2000** = 1763

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<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Reference Time</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
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</table>

### Hardware

- **CPU**: AMD Opteron (TM) 2218
- **CPU MHz**: 2600
- **FPU**: Integrated
- **CPU(s) enabled**: 2 cores, 1 chip, 2 cores/chip
- **CPU(s) orderable**: 1, 2 chips
- **Parallel**: No
- **Primary Cache**: 64 KB I 64 KB D on chip per core
- **Secondary Cache**: 1 MB I+D on chip per core
- **L3 Cache**: N/A
- **Memory**: 8 GB (4x2 GB PC2-5300P CL5.0)
- **Disk Subsystem**: 1x36 GB 10 K SAS

### Software

- **Operating System**: Windows Server 2003 Enterprise SP1
- **Compiler**: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z)
- **PGI Fortran Compiler for 32-bit applications, (version 9.1 build 20060323Z)
- **PGI Fortran compiler 6.0-8 for Windows XP (32-bit)
- **PGI C compiler 6.0-8 for Windows XP (32-bit)
- **Microsoft Visual Studio .NET 7.0.9466 (for libraries)
- **AMD Core Math Library V3.5.0
- **File System**: NTFS
- **System State**: Default

### Notes/Tuning Information

- **ACML is linking with AMD Core Math Library V3.5.0**
- **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 -Qunroll10 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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Standard Performance Evaluation Corporation  
info@spec.org  
http://www.spec.org
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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 -Qunrolll3 ONESTEP=1
             -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
188.ammp:  icl -Oa -arch:SSE2 -Zp4 -Qansi_alias ONESTEP=1
189.lucas:  ifort -Qipo -QxW -Qunroll11 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
The start /b /wait /affinity command is used to bind CPU(s) to processes.