



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant BL20P G4 (3.73GHz, Intel Xeon processor 5080)

SPECfp\_rate2000 = 36.5  
SPECfp\_rate\_base2000 = 36.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	58.3	63.6	2	58.4	63.6
171.swim	2	214	33.7	2	214	33.7
172.mgrid	2	139	30.0	2	139	30.0
173.applu	2	166	29.4	2	166	29.4
177.mesa	2	87.2	37.2	2	86.8	37.4
178.galgel	2	85.3	78.9	2	85.3	78.9
179.art	2	74.6	80.8	2	74.6	80.8
183.quake	2	68.6	44.0	2	68.6	44.0
187.facerec	2	127	34.6	2	128	34.6
188.amp	2	202	25.2	2	195	26.2
189.lucas	2	155	30.0	2	155	29.9
191.fma3d	2	169	28.8	2	169	28.8
200.sixtrack	2	150	17.0	2	151	17.0
301.apsi	2	211	28.6	2	211	28.6

### Hardware

CPU: Intel Xeon processor 5080 (3.73GHz, 2x2MB L2, 1066MHz bus)  
CPU MHz: 3730  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD (on chip) per core  
Secondary Cache: 2048KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x1024MB PC2-5300F  
Disk Subsystem: 1x36GB 10K SAS  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
MicroQuill Smartheap Library 7.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for C programs: -fast +FDO shlw32M.lib
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: -fast +FDO ONESTEP=yes
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=1
177.mesa: -fast +FDO ONESTEP=yes
178.galgel: basepeak=1
179.art: basepeak=1
183.quake: -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -fast -Qansi_alias +FDO
189.lucas: -fast
```



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## Notes/Tuning Information (Continued)

191.fma3d: basepeak=1  
200.sixtrack: -fast +FDO  
301.apsi: basepeak=1  
BIOS Configuration Notes  
Power Regulator set to Static High Performance Mode  
Hyper-Threading Technology disabled