



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant BL20P G4 (3.0GHz, Intel Xeon processor 5160)

SPECfp\_rate2000 = 45.9  
SPECfp\_rate\_base2000 = 45.1

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	55.8	66.5	2	55.8	66.5
171.swim	2	222	32.4	2	222	32.4
172.mgrid	2	161	25.9	2	161	25.9
173.applu	2	148	32.9	2	148	32.9
177.mesa	2	49.8	65.2	2	49.6	65.4
178.galgel	2	53.3	126	2	53.3	126
179.art	2	52.6	115	2	52.6	115
183.quake	2	65.6	46.0	2	65.6	45.9
187.facerec	2	85.7	51.5	2	85.3	51.7
188.amp	2	150	34.1	2	118	43.4
189.lucas	2	145	32.0	2	144	32.2
191.fma3d	2	138	35.4	2	138	35.4
200.sixtrack	2	93.5	27.3	2	93.4	27.3
301.apsi	2	180	33.6	2	180	33.6

### Hardware

CPU: Intel Xeon processor 5160 (3.0GHz, 4MB L2 shared, 1333MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KBI + 32KBD (on chip) per core  
Secondary Cache: 4096KB(I+D) (on chip) shared  
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
```