



# CFP2000 Result

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

SPECfp\_rate2000 = **80.0**  
SPECfp\_rate\_base2000 = **78.9**

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	4	69.5	107	4	69.5	107
171.swim	4	295	48.8	4	294	48.9
172.mgrid	4	211	39.6	4	211	39.6
173.applu	4	182	53.5	4	182	53.5
177.mesa	4	50.3	129	4	50.7	128
178.galgel	4	56.1	240	4	56.1	240
179.art	4	59.3	204	4	59.3	204
183.quake	4	85.0	70.9	4	84.8	71.1
187.facerec	4	91.1	96.8	4	91.3	96.6
188.amp	4	145	70.3	4	120	85.4
189.lucas	4	173	53.6	4	173	53.7
191.fma3d	4	165	59.1	4	165	59.1
200.sixtrack	4	94.5	54.0	4	94.5	54.0
301.apsi	4	193	62.7	4	193	62.7

### Hardware

CPU: Intel Xeon processor 5160 (3.0GHz, 4MB L2 shared, 1333MHz bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 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
```