



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant BL20p G2 (3.06GHz/1MB L3 cache, Intel Xeon)

SPECfp\_rate2000 = 13.8  
SPECfp\_rate\_base2000 = 13.5

SPEC license #: 3 | Test date: Aug-2003 | Hardware Avail: Jul-2003 | Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	111	16.7	1	113	16.4
171.swim	1	196	18.4	1	185	19.4
172.mgrid	1	152	13.7	1	151	13.8
173.applu	1	190	12.8	1	189	12.9
177.mesa	1	112	14.5	1	112	14.5
178.galgel	1	165	20.4	1	164	20.5
179.art	1	287	10.5	1	272	11.1
183.quake	1	112	13.4	1	90.9	16.6
187.facerec	1	131	16.8	1	130	16.9
188.amp	1	240	10.6	1	238	10.7
189.lucas	1	142	16.3	1	141	16.4
191.fma3d	1	185	13.2	1	185	13.2
200.sixtrack	1	197	6.49	1	192	6.64
301.apsi	1	263	11.4	1	263	11.5

### Hardware

CPU: Intel Xeon (3.06GHz, 533MHz bus)  
 CPU MHz: 3066  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 8KBD on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 1024KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 2x1024MB PC2100  
 Disk Subsystem: 2x18.2GB 15K Ultra3 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Server (Build 2195 SP3)  
 Compiler: Intel C++ Compiler 7.1 Build 20030801Z  
 Microsoft Visual Studio Enterprise Edition 6.0 (for libraries)  
 Intel Fortran Compiler 7.1 build 20030307Z  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: Hyperthreading disabled in BIOS

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW +FDO ONESTEP=yes
171.swim: -Qipo -QxW -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxW -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxW -O3 -Qscalar_rep- +FDO ONESTEP=yes
177.mesa: -Qipo -QxW -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxW -Oa +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QxW -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -QxW -Oa ONESTEP=yes
189.lucas: -Qipo -QaxW
191.fma3d: basepeak=1
```



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## Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO ONESTEP=yes  
301.apsi: -Qipo -QxW -O3 +FDO ONESTEP=yes