



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL560 (2.8GHz, Intel Xeon MP)

SPECfp\_rate2000 = 22.7  
SPECfp\_rate\_base2000 = 21.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	225	33.0	4	223	33.2
171.swim	4	1210	11.9	4	1210	11.9
172.mgrid	4	699	12.0	4	697	12.0
173.applu	4	941	10.4	4	938	10.4
177.mesa	4	127	51.1	4	127	51.3
178.galgel	4	217	61.9	4	218	61.7
179.art	4	566	21.3	4	493	24.5
183.quake	4	451	13.4	4	338	17.8
187.facerec	4	325	27.1	4	325	27.2
188.amp	4	296	34.4	4	295	34.6
189.lucas	4	748	12.4	4	745	12.5
191.fma3d	4	574	17.0	4	574	17.0
200.sixtrack	4	212	24.0	4	210	24.3
301.apsi	4	415	29.1	4	411	29.4

### Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip (Hyper-Threading disabled)  
 CPU(s) orderable: 1,2,4  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 8KBD on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 2048KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 2x1024MB PC2100  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)  
 Compiler: Intel C++ Compiler 7.1 Build 20030801Z  
 Microsoft Visual Studio .NET 7.0.9466 (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- -Qauto +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 -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxW -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