



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL580 G2(2.8GHz, Intel Xeon MP)

SPECfp\_rate2000 = 12.7  
SPECfp\_rate\_base2000 = 12.4

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	1	129	14.4	1	129	14.3
171.swim	1	248	14.5	1	248	14.5
172.mgrid	1	191	10.9	1	191	10.9
173.applu	1	258	9.46	1	256	9.51
177.mesa	1	123	13.2	1	123	13.2
178.galgel	1	130	25.8	1	131	25.7
179.art	1	178	17.0	1	158	19.0
183.quake	1	136	11.1	1	114	13.2
187.facerec	1	156	14.1	1	154	14.3
188.amp	1	235	10.9	1	234	10.9
189.lucas	1	179	13.0	1	176	13.2
191.fma3d	1	234	10.4	1	234	10.4
200.sixtrack	1	208	6.13	1	206	6.18
301.apsi	1	269	11.2	1	269	11.2

### Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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: 16x512MB PC1600  
 Disk Subsystem: 2x18.2GB 15K Ultra3 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