



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant BL40p (2.8GHz, Intel Xeon MP)

SPECfp\_rate2000 = 12.8  
SPECfp\_rate\_base2000 = 12.5

SPEC license #: 3 | Test address: Hewlett-Packard Company, Houston TX | 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	122	15.2	1	122	15.2
171.swim	1	272	13.2	1	279	12.9
172.mgrid	1	192	10.8	1	190	11.0
173.applu	1	256	9.53	1	246	9.90
177.mesa	1	123	13.2	1	123	13.2
178.galgel	1	125	27.0	1	125	27.0
179.art	1	179	16.9	1	165	18.2
183.quake	1	127	11.9	1	105	14.3
187.facerec	1	151	14.6	1	146	15.1
188.amp	1	224	11.4	1	222	11.5
189.lucas	1	184	12.6	1	183	12.7
191.fma3d	1	222	11.0	1	222	11.0
200.sixtrack	1	207	6.15	1	205	6.23
301.apsi	1	272	11.1	1	273	11.1

### 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: 2x512MB PC2100  
Disk Subsystem: 2x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)  
Compiler: Intel C++ Compiler 7.1 Build 20030813Z  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
Intel Fortran Compiler 7.1 build 20030813Z  
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