



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL380 G4 (3.8GHz, Intel Xeon)

SPECfp\_rate2000 = 32.9  
SPECfp\_rate\_base2000 = 32.1

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 2           | 70.0         | 53.0       | 2      | 70.2    | 52.9  |
| 171.swim     | 2           | 267          | 26.9       | 2      | 267     | 26.9  |
| 172.mgrid    | 2           | 170          | 24.5       | 2      | 171     | 24.5  |
| 173.applu    | 2           | 211          | 23.1       | 2      | 206     | 23.7  |
| 177.mesa     | 2           | 84.5         | 38.4       | 2      | 84.5    | 38.4  |
| 178.galgel   | 2           | 91.0         | 73.9       | 2      | 91.1    | 73.8  |
| 179.art      | 2           | 87.3         | 69.1       | 2      | 87.3    | 69.1  |
| 183.quake    | 2           | 106          | 28.3       | 2      | 78.8    | 38.3  |
| 187.facerec  | 2           | 120          | 36.6       | 2      | 120     | 36.6  |
| 188.amp      | 2           | 184          | 27.7       | 2      | 184     | 27.7  |
| 189.lucas    | 2           | 185          | 25.1       | 2      | 184     | 25.2  |
| 191.fma3d    | 2           | 193          | 25.3       | 2      | 193     | 25.3  |
| 200.sixtrack | 2           | 161          | 15.8       | 2      | 161     | 15.8  |
| 301.apsi     | 2           | 220          | 27.4       | 2      | 220     | 27.4  |

### Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC2-3200 Dual Rank  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)  
Intel Fortran Compiler for 32-bit applications, (Version 8.1 Build 20050517Z)  
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: -fast -Qansi\_alias +FDO

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

168.wupwise: -fast -Qansi\_alias +FDO

171.swim: -fast -f77rtl +FDO ONESTEP=yes

172.mgrid: -fast -Qansi\_alias +FDO

173.applu: -fast -Qscalar\_rep- -Qauto -f77rtl +FDO ONESTEP=yes

177.mesa: -fast +FDO ONESTEP=yes

178.galgel: -fast +FDO ONESTEP=yes

179.art: basepeak=1

183.quake: -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib

187.facerec: -fast -Qunroll11 -Qscalar\_rep- -fpp +FDO ONESTEP=yes

188.amp: basepeak=1



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## Notes/Tuning Information (Continued)

189.lucas: -fast  
191.fma3d: basepeak=1  
200.sixtrack: -fast +FDO  
301.apsi: basepeak=1  
BIOS Configuration Notes  
Hyper-Threading Technology disabled