



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL580 G4 (3.0GHz, Intel Xeon processor 7041)

SPECfp\_rate2000 = 38.1  
SPECfp\_rate\_base2000 = 38.0

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: May-2006 Hardware Avail: May-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	136	54.5	4	136	54.5
171.swim	4	582	24.7	4	582	24.7
172.mgrid	4	360	23.2	4	360	23.2
173.applu	4	403	24.2	4	403	24.2
177.mesa	4	120	54.3	4	120	54.4
178.galgel	4	130	104	4	130	104
179.art	4	168	72.0	4	168	72.0
183.quake	4	180	33.5	4	180	33.5
187.facerec	4	205	43.1	4	205	43.0
188.amp	4	285	35.8	4	277	36.9
189.lucas	4	376	24.7	4	375	24.7
191.fma3d	4	333	29.3	4	333	29.3
200.sixtrack	4	188	27.1	4	189	27.0
301.apsi	4	286	42.1	4	286	42.1

### Hardware

CPU: Intel Xeon processor 7041 (3.0GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2,4  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD (on chip) per core  
Secondary Cache: 2048KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x2048MB PC2-3200 dual-rank  
Disk Subsystem: 1x36GB SAS  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)  
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 for Fortran programs: -fast -Qansi\_alias +FDO

Base tuning for C programs: -fast +FDO shlw32M.lib

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

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

171.swim: -fast +FDO ONESTEP=yes

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

173.applu: basepeak=1

177.mesa: -fast +FDO ONESTEP=yes

178.galgel: basepeak=1

179.art: basepeak=1

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

187.facerec: -fast -Qunroll1 -Qscalar\_rep- +FDO ONESTEP=yes

188.amp: -fast -Qansi\_alias +FDO



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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