



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL380 G4 (2.8GHz, Intel dual-core Xeon)

SPECfp\_rate2000 = 29.9  
SPECfp\_rate\_base2000 = 29.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	80.1	46.3	2	80.1	46.3
171.swim	2	267	26.9	2	267	26.9
172.mgrid	2	175	23.9	2	175	23.8
173.applu	2	217	22.4	2	211	23.1
177.mesa	2	114	28.5	2	114	28.4
178.galgel	2	111	60.7	2	111	60.7
179.art	2	92.4	65.3	2	92.4	65.3
183.quake	2	106	28.3	2	78.5	38.4
187.facerec	2	133	33.1	2	133	33.2
188.amp	2	224	22.8	2	224	22.8
189.lucas	2	184	25.3	2	184	25.3
191.fma3d	2	184	26.5	2	184	26.5
200.sixtrack	2	199	12.8	2	199	12.8
301.apsi	2	260	23.2	2	260	23.2

### Hardware

CPU: Intel dual-core Xeon (2.8GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
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: 4x2048MB PC2-3200  
Disk Subsystem: 1x72.8GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
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 -Qunroll1 -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