



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant ML370 G4 (2.8GHz, Dual-Core Intel Xeon)

SPECfp\_rate2000 = 40.2  
SPECfp\_rate\_base2000 = 39.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Dec-2005 Software Avail: Jan-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	119	62.4	4	119	62.4
171.swim	4	569	25.3	4	570	25.2
172.mgrid	4	357	23.4	4	357	23.4
173.applu	4	403	24.2	4	401	24.3
177.mesa	4	115	56.6	4	115	56.7
178.galgel	4	130	103	4	131	103
179.art	4	147	82.1	4	147	82.1
183.quake	4	206	29.3	4	152	39.7
187.facerec	4	189	46.8	4	188	46.8
188.amp	4	243	42.0	4	243	42.0
189.lucas	4	370	25.1	4	372	25.0
191.fma3d	4	302	32.3	4	302	32.3
200.sixtrack	4	201	25.3	4	202	25.3
301.apsi	4	288	41.8	4	288	41.8

**Hardware**

CPU: Dual-Core Intel Xeon (2.8GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 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: 8x512MB PC2-3200  
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 9.0 Build 20060120Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.0 Build 20060120Z)  
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- +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