



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant ML370 G5 (3.0GHz, Intel Xeon processor 5160)

SPECfp\_rate2000 = **80.8**  
SPECfp\_rate\_base2000 = **79.1**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	69.1	107	4	69.0	108
171.swim	4	295	48.8	4	294	48.8
172.mgrid	4	214	39.0	4	214	39.0
173.applu	4	182	53.6	4	182	53.6
177.mesa	4	51.7	126	4	49.6	131
178.galgel	4	55.8	241	4	55.8	241
179.art	4	58.1	208	4	58.1	208
183.quake	4	83.7	72.1	4	83.6	72.1
187.facerec	4	88.8	99.3	4	88.6	99.5
188.amp	4	151	67.6	4	119	85.9
189.lucas	4	170	54.5	4	170	54.6
191.fma3d	4	165	59.2	4	165	59.2
200.sixtrack	4	94.3	54.1	4	94.2	54.2
301.apsi	4	187	64.7	4	187	64.7

### Hardware

CPU: Intel Xeon processor 5160 (3.0GHz, 4MB L2 shared, 1333MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KB (I) + 32KB (D) (on chip) per core  
Secondary Cache: 4096KB(I+D) (on chip) shared  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x2048MB PC2-5300F  
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)  
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 +FDO ONESTEP=yes shlw32M.lib

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

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



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## Notes/Tuning Information (Continued)

188. ammp: -fast -Qansi\_alias +FDO  
189. lucas: -fast  
191. fma3d: basepeak=1  
200. sixtrack: -fast +FDO  
301. apsi: basepeak=1