



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant ML370 G4 (3.8GHz, Intel Xeon)

SPECfp\_rate2000 = 32.4  
SPECfp\_rate\_base2000 = 31.7

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	70.9	52.4	2	70.9	52.4
171.swim	2	273	26.3	2	273	26.3
172.mgrid	2	175	23.9	2	175	23.9
173.applu	2	214	22.8	2	209	23.3
177.mesa	2	84.8	38.3	2	84.7	38.4
178.galgel	2	91.5	73.5	2	91.5	73.5
179.art	2	90.0	67.0	2	90.0	67.0
183.quake	2	110	27.4	2	81.5	37.0
187.facerec	2	122	36.2	2	122	36.2
188.amp	2	184	27.8	2	184	27.8
189.lucas	2	189	24.6	2	189	24.6
191.fma3d	2	196	24.9	2	196	24.9
200.sixtrack	2	161	15.8	2	161	15.8
301.apsi	2	221	27.3	2	221	27.3

### 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: 8x1024MB 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 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 -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