



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant ML570 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECfp\_rate2000 = 42.7  
SPECfp\_rate\_base2000 = 42.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	102	72.5	4	102	72.7
171.swim	4	379	37.9	4	379	38.0
172.mgrid	4	248	33.6	4	249	33.6
173.applu	4	303	32.2	4	303	32.2
177.mesa	4	194	33.4	4	191	34.0
178.galgel	4	148	91.1	4	148	91.1
179.art	4	98.7	122	4	98.7	122
183.quake	4	101	59.6	4	101	59.6
187.facerec	4	216	40.9	4	213	41.4
188.amp	4	303	33.7	4	308	33.1
189.lucas	4	264	35.2	4	262	35.4
191.fma3d	4	311	31.3	4	311	31.3
200.sixtrack	4	262	19.5	4	262	19.5
301.apsi	4	355	34.0	4	355	34.0

### Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 4 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2,4 chips  
Parallel: No  
Primary Cache: 12 K I micro-ops + 16 KB D on chip per core  
Secondary Cache: 1 MB I+D on chip per core  
L3 Cache: 16 MB on chip per chip  
Other Cache: N/A  
Memory: 32 GB (16x2048MB PC2-3200 dual-rank)  
Disk Subsystem: 1x36 GB 10 K 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 enabled