



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL360 G4p (3.8GHz, Intel Xeon)

SPECfp2000 = 1887  
SPECfp\_base2000 = 1861

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	59.1	2709	59.1	2709	
171.swim	3100	132	2344	132	2345	
172.mgrid	1800	113	1593	113	1592	
173.applu	2100	135	1552	136	1546	
177.mesa	1400	84.3	1661	84.4	1659	
178.galgel	2900	78.6	3691	78.7	3686	
179.art	2600	62.2	4179	62.2	4179	
183.quake	1300	63.5	2047	52.6	2473	
187.facerec	1900	99.5	1909	99.4	1911	
188.amp	2200	172	1276	172	1276	
189.lucas	2000	96.9	2065	96.4	2076	
191.fma3d	2100	136	1549	136	1549	
200.sixtrack	1100	161	684	161	684	
301.apsi	2600	190	1368	190	1368	

### Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 4x2048MB PC2-3200 Dual Rank  
Disk Subsystem: 1x36.4GB 10K SAS  
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 Smarheap 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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SPECfp2000 =	1887
SPECfp_base2000 =	1861

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