



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant BL20p G3 (3.8GHz, Intel Xeon)

SPECfp2000 = 1837  
SPECfp\_base2000 = 1801

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	61.4	2608	60.3	2654	
171.swim	3100	143	2165	138	2239	
172.mgrid	1800	116	1555	114	1585	
173.applu	2100	142	1483	140	1500	
177.mesa	1400	84.8	1652	84.6	1654	
178.galgel	2900	79.5	3649	79.7	3640	
179.art	2600	64.9	4006	64.9	4006	
183.quake	1300	65.3	1992	54.7	2376	
187.facerec	1900	102	1869	103	1853	
188.amp	2200	178	1239	178	1239	
189.lucas	2000	101	1978	97.8	2044	
191.fma3d	2100	142	1483	142	1483	
200.sixtrack	1100	161	683	161	683	
301.apsi	2600	200	1299	200	1299	

### 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 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition 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 -Qunroll11 -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