



# CFP2000 Result

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**Hewlett-Packard Company**  
ProLiant DL580 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECfp2000 = 1951  
SPECfp\_base2000 = 1947

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	51.3	3121	51.2	3123	
171.swim	3100	135	2295	135	2296	
172.mgrid	1800	124	1451	124	1450	
173.applu	2100	126	1669	126	1669	
177.mesa	1400	96.1	1457	95.3	1469	
178.galgel	2900	80.3	3614	80.3	3614	
179.art	2600	43.7	5951	43.7	5951	
183.earthquake	1300	45.5	2859	45.4	2862	
187.facerec	1900	80.5	2361	81.0	2347	
188.amp	2200	154	1430	150	1463	
189.lucas	2000	123	1625	122	1635	
191.fma3d	2100	146	1438	146	1438	
200.sixtrack	1100	163	675	163	676	
301.apsi	2600	192	1356	192	1356	

### Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)  
 CPU MHz: 3400  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
 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.earthquake: -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. psi: basepeak=1  
BIOS Configuration Notes  
Hyper-Threading Technology disabled