



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML310 G4 (2.4 GHz, Intel Xeon processor 3060)

SPECfp2000 = **2541**
SPECfp_base2000 = **2535**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	40.4	3957	40.4	3958	
171.swim	3100	111	2801	111	2801	
172.mgrid	1800	115	1571	115	1571	
173.applu	2100	104	2014	104	2014	
177.mesa	1400	59.4	2358	59.0	2373	
178.galgel	2900	50.1	5787	50.1	5787	
179.art	2600	30.8	8430	30.8	8430	
183.earthquake	1300	38.5	3378	38.5	3378	
187.facerec	1900	74.8	2542	74.9	2535	
188.amp	2200	128	1721	123	1793	
189.lucas	2000	78.7	2542	79.6	2511	
191.fma3d	2100	112	1876	112	1876	
200.sixtrack	1100	115	960	115	960	
301.apsi	2600	157	1661	157	1661	

Hardware

CPU: Intel Xeon processor 3060 (2.4GHz, 4MB L2 shared, 1066 MHz bus)
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Parallel: No
 Primary Cache: 32 KB I+ 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 GB (2x2 GB PC2-5300E)
 Disk Subsystem: 1x80 GB SATA150
 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
188.amp: -fast -Qansi_alias +FDO
189.lucas: -fast
```



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Notes/Tuning Information (Continued)

191.fma3d: basepeak=1
BIOS Configuration Notes
Power Regulator set to Static High Performance Mode