



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant DL740 (3.0GHz, Intel Xeon MP)

SPECfp\_rate2000 = 41.1  
SPECfp\_rate\_base2000 = 40.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	405	36.7	8	397	37.4
171.swim	8	1764	16.3	8	1764	16.3
172.mgrid	8	1120	14.9	8	1116	15.0
173.applu	8	1422	13.7	8	1410	13.8
177.mesa	8	180	72.2	8	178	72.8
178.galgel	8	146	184	8	149	180
179.art	8	105	229	8	118	205
183.equake	8	569	21.2	8	497	24.3
187.facerec	8	314	56.1	8	312	56.6
188.ammp	8	229	89.3	8	192	106
189.lucas	8	998	18.6	8	995	18.6
191.fma3d	8	987	19.7	8	987	19.7
200.sixtrack	8	196	52.1	8	191	53.5
301.apsi	8	604	39.9	8	609	39.6

### Hardware

CPU: Intel Xeon MP (3.0GHz, 100MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
CPU(s) orderable: 1,2,4,8  
Parallel: No  
Primary Cache: 12K micro-ops I + 8KBD on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 4096KB(I+D) on chip  
Other Cache: N/A  
Memory: 8x1024MB 133MHz SDRAM  
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise (Build 3790)  
Compiler: Intel C++ Compiler 7.1 Build 20030813Z  
Intel Fortran Compiler 7.1 build 20030813Z  
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: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW +FDO ONESTEP=yes
171.swim: -Qipo -QxW -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxW -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxW -Oi- ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -QxW -Qipo -Oi- -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.equake: -Qipo -QxW -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxW -O3 -Qunroll11 -Qscalar_rep- +FDO ONESTEP=yes
188.ammp: -QxW -Oa ONESTEP=yes
189.lucas: -Qipo -QaxW
191.fma3d: basepeak=1
```



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## Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO ONESTEP=yes  
301.apsi: -Qipo -QxW -O3 +FDO ONESTEP=yes  
BIOS Configuration Notes  
Hyper Threading disabled