



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL140 (3.2GHz/1MB L3 cache, Intel Xeon)

SPECfp2000 = **984**
SPECfp_base2000 = **962**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2003 Hardware Avail: Nov-2003 Software Avail: Nov-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	500 1000 1500 2000			
168.wupwise	1600	118	1360	118	1353	[Bar chart showing ratio]			
171.swim	3100	275	1129	272	1139	[Bar chart showing ratio]			
172.mgrid	1800	191	941	188	957	[Bar chart showing ratio]			
173.applu	2100	258	815	254	826	[Bar chart showing ratio]			
177.mesa	1400	108	1298	108	1298	[Bar chart showing ratio]			
178.galgel	2900	195	1487	194	1498	[Bar chart showing ratio]			
179.art	2600	475	548	464	561	[Bar chart showing ratio]			
183.quake	1300	137	950	113	1149	[Bar chart showing ratio]			
187.facerec	1900	149	1277	147	1293	[Bar chart showing ratio]			
188.amp	2200	311	708	308	715	[Bar chart showing ratio]			
189.lucas	2000	186	1076	183	1093	[Bar chart showing ratio]			
191.fma3d	2100	222	947	222	947	[Bar chart showing ratio]			
200.sixtrack	1100	187	587	184	597	[Bar chart showing ratio]			
301.apsi	2600	287	907	286	909	[Bar chart showing ratio]			

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 4x512MB PC2100
Disk Subsystem: 1x80GB ATA/100 7200 rpm
Other Hardware:

Software

Operating System: Windows 2000 Server(Build 2195 SP3)
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 all 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 -O3 +FDO ONESTEP=yes
  178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
  179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
  183.quake: -Qipo -QxW -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
  187.facerec: -Qipo -QaxW -O3 -Qunroll11 -Qscalar_rep- +FDO ONESTEP=yes
  188.amp: -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