



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant BL30p (3.2GHz/2MB L3 cache, Intel Xeon)

SPECint2000 = **1550**  
SPECint\_base2000 = **1487**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2004 Hardware Avail: Jul-2004 Software Avail: Oct-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	105	1335	105	1337	[Bar chart showing ratio]			
175.vpr	1400	128	1092	127	1100	[Bar chart showing ratio]			
176.gcc	1100	63.2	1740	59.8	1839	[Bar chart showing ratio]			
181.mcf	1800	126	1433	123	1459	[Bar chart showing ratio]			
186.crafty	1000	78.0	1282	79.0	1266	[Bar chart showing ratio]			
197.parser	1800	131	1374	131	1379	[Bar chart showing ratio]			
252.eon	1300	83.8	1551	66.2	1965	[Bar chart showing ratio]			
253.perlbnk	1800	123	1459	113	1591	[Bar chart showing ratio]			
254.gap	1100	66.6	1652	66.4	1657	[Bar chart showing ratio]			
255.vortex	1900	77.2	2462	76.8	2474	[Bar chart showing ratio]			
256.bzip2	1500	125	1196	117	1284	[Bar chart showing ratio]			
300.twolf	3000	181	1658	177	1698	[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 (HT Technology 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: 2048KB(I+D) on chip  
Other Cache: N/A  
Memory: 4x512MB PC2100  
Disk Subsystem: 2x60GB ATA  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
Compiler: Intel C++ Compiler 8.1 Build 20040802Z  
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 C programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
 176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
175.vpr: -QxN -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxN -Qipo -Oi -O3 +FDO ONESTEP=yes
181.mcf: -QxN -Qipo -O3 +FDO ONESTEP=yes shlw32M.lib
186.crafty: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes shlw32M.lib
197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
253.perlbnk: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes shlw32M.lib
254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxN -Qipo -O3 +FDO ONESTEP=yes shlw32M.lib
256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO ONESTEP=yes shlw32M.lib  
BIOS Configuration Notes  
Hyper Threading disabled