



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML370 G3 (3.2GHz/2MB L3 cache, Intel Xeon)

SPECint2000 = 1530
SPECint_base2000 = 1483

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	107	1313	107	1312	[Bar chart showing ratio 1312]			
175.vpr	1400	128	1097	126	1107	[Bar chart showing ratio 1107]			
176.gcc	1100	63.4	1736	59.9	1836	[Bar chart showing ratio 1836]			
181.mcf	1800	132	1366	131	1373	[Bar chart showing ratio 1373]			
186.crafty	1000	78.8	1268	77.9	1284	[Bar chart showing ratio 1284]			
197.parser	1800	133	1352	133	1358	[Bar chart showing ratio 1358]			
252.eon	1300	82.3	1579	68.6	1895	[Bar chart showing ratio 1895]			
253.perlbnk	1800	126	1431	115	1561	[Bar chart showing ratio 1561]			
254.gap	1100	66.6	1651	66.6	1651	[Bar chart showing ratio 1651]			
255.vortex	1900	77.0	2469	78.9	2407	[Bar chart showing ratio 2407]			
256.bzip2	1500	121	1238	118	1267	[Bar chart showing ratio 1267]			
300.twolf	3000	178	1689	174	1727	[Bar chart showing ratio 1727]			

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: 1x36.4GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard (Build 3790)
 Compiler: Intel C++ Compiler 8.0 Build 20031211Z
 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 shlw32M.lib ONESTEP=yes
 186.crafty: -QxN -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
 197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
 252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
 253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
 254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
 255.vortex: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
 256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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Notes/Tuning Information (Continued)

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