



CINT2000 Result

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

SPECint_rate2000 = 18.0
SPECint_rate_base2000 = 17.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	105	15.5	1	105	15.5
175.vpr	1	128	12.7	1	127	12.8
176.gcc	1	63.2	20.2	1	59.8	21.3
181.mcf	1	126	16.6	1	123	16.9
186.crafty	1	78.0	14.9	1	79.0	14.7
197.parser	1	131	15.9	1	131	16.0
252.eon	1	83.8	18.0	1	66.2	22.8
253.perlbnk	1	123	16.9	1	113	18.5
254.gap	1	66.6	19.2	1	66.4	19.2
255.vortex	1	77.2	28.6	1	76.8	28.7
256.bzip2	1	125	13.9	1	117	14.9
300.twolf	1	181	19.2	1	177	19.7

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