



CINT2000 Result

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

SPECint_rate2000 = 34.3
SPECint_rate_base2000 = 32.9

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	2	106	30.7	2	106	30.7
175.vpr	2	134	24.3	2	134	24.2
176.gcc	2	66.7	38.3	2	61.7	41.4
181.mcf	2	157	26.7	2	156	26.8
186.crafty	2	78.0	29.7	2	78.7	29.5
197.parser	2	133	31.4	2	133	31.4
252.eon	2	83.6	36.1	2	66.6	45.3
253.perlbnk	2	125	33.3	2	114	36.8
254.gap	2	74.5	34.3	2	74.9	34.1
255.vortex	2	80.7	54.6	2	81.6	54.0
256.bzip2	2	131	26.6	2	123	28.3
300.twolf	2	181	38.4	2	176	39.5

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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