



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL740 (3.0GHz, Intel Xeon MP)

SPECint_rate2000 = 48.5
SPECint_rate_base2000 = 45.6

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	163	39.9	4	151	42.9
175.vpr	4	173	37.5	4	161	40.4
176.gcc	4	96.9	52.7	4	94.4	54.1
181.mcf	4	244	34.3	4	244	34.3
186.crafty	4	92.9	49.9	4	86.5	53.7
197.parser	4	187	44.6	4	178	47.0
252.eon	4	98.0	61.6	4	83.6	72.1
253.perlbnk	4	147	56.6	4	138	60.6
254.gap	4	264	19.4	4	263	19.4
255.vortex	4	144	61.2	4	122	72.3
256.bzip2	4	150	46.3	4	144	48.5
300.twolf	4	199	70.0	4	200	69.5

Hardware

CPU: Intel Xeon MP (3.0GHz, 100MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip (HT Technology disabled)
CPU(s) orderable: 1,2,4,8
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 4096KB(I+D) on chip
Other Cache: N/A
Memory: 8x1024MB PC133
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise (Build 3790)
Compiler: Intel C++ 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 C programs: -QxW -Qipo -Oi- shlw32M.lib 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: -QxW -Oi- -Qipo -O3 +FDO ONESTEP=yes
175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxW -Qipo -Oi- -O3 +FDO shlw32M.lib ONESTEP=yes
181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser: -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO ONESTEP=yes
253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -Oi- -O3 +FDO shlw32M.lib ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
256.bzip2: -Qunroll11 -Oa -Oi- -Qipo +FDO ONESTEP=yes
```



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Notes/Tuning Information (Continued)

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