



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL140 G3 (3.0 GHz, Intel Xeon processor 5160)

SPECint_rate2000 = **59.2**
SPECint_rate_base2000 = **59.1**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2006 Hardware Avail: Jun-2006 Software Avail: Oct-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	80.5	40.3	2	80.5	40.3
175.vpr	2	76.1	42.7	2	76.1	42.7
176.gcc	2	42.0	60.7	2	41.8	61.1
181.mcf	2	80.8	51.7	2	80.9	51.6
186.crafty	2	29.0	80.0	2	29.0	80.1
197.parser	2	101	41.4	2	100	41.6
252.eon	2	32.4	93.0	2	32.5	92.8
253.perlbnk	2	56.1	74.4	2	56.1	74.4
254.gap	2	52.2	48.9	2	52.3	48.8
255.vortex	2	50.4	87.5	2	50.4	87.5
256.bzip2	2	73.9	47.1	2	73.9	47.1
300.twolf	2	95.0	73.3	2	95.0	73.3

Hardware

CPU: Intel Xeon processor 5160 (1333 MHz system bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Parallel: No
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: N/A
Other Cache: N/A
Memory: 8 GB (8 x 1 GB PC2-5300F)
Disk Subsystem: 1 x 36 GB 15 K SAS
Other Hardware:

Software

Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD64/EM64T, Update 4 Kernel 2.6.9-42.EL.smp
Compiler: Intel C++ Compiler for EM64T-based applications, (Version 9.1 Build 20060925)
File System: ext2
System State: Multi-user run level 3

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Base tuning for C programs: -fast -auto_ilp32 +FDO ONESTEP=yes
Base tuning for C++ programs: -fast
Portability flags:
-DSPEC_CPU2000_LP64 applied to all benchmarks
176.gcc: -Dalloca=_alloca -DUSG
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
254.gap: -DSYS_IS_USG -DSYS_HAS_CALLOC_PROTO
-DSYS_HASMALLOC_PROTO -DSYS_HAS_IOCTL_PROTO

Peak tuning:
164.gzip: basepeak=1
175.vpr: basepeak=1
176.gcc: -fast -auto_ilp32 +FDO
181.mcf: -fast -auto_ilp32 +FDO ONESTEP=yes
186.crafty: -fast -auto_ilp32 +FDO ONESTEP=yes
197.parser: -fast -auto_ilp32 +FDO ONESTEP=yes
252.eon: -fast +FDO
253.perlbnk: basepeak=1
```



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Notes/Tuning Information (Continued)

```
254.gap:      -fast          +FDO      ONESTEP=yes
255.vortex:   -fast -auto_ilp32  +FDO      ONESTEP=yes
256.bzip2:    basepeak=1
300.twolf:    basepeak=1
BIOS Configuration Notes
Adjacent Cache Line Prefetch Disabled
```