



CINT2000 Result

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

SPECint_rate2000 = 114
SPECint_rate_base2000 = 114

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

250	200	150	100	50	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
					164.zip	4	80.8	80.4	4	80.8	80.4
					175.vpr	4	83.2	78.1	4	83.2	78.1
					176.gcc	4	42.4	120	4	42.3	121
					181.mcf	4	86.3	96.8	4	86.4	96.7
					186.crafty	4	29.1	160	4	29.1	159
					197.parser	4	117	71.3	4	118	71.1
					252.eon	4	32.5	186	4	32.4	186
					253.perlbnk	4	57.6	145	4	57.6	145
					254.gap	4	56.1	91.0	4	56.0	91.1
					255.vortex	4	50.8	173	4	50.8	173
					256.bzip2	4	74.3	93.7	4	74.3	93.7
					300.twolf	4	96.1	145	4	96.1	145

Hardware

CPU: Intel Xeon processor 5160 (1333 MHz system bus)
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 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.zip: 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
```