



# CINT2000 Result

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

SPECint2000 = **2973**  
SPECint\_base2000 = **2972**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	79.4	1764	79.4	1764	
175.vpr	1400	62.2	2252	62.2	2252	
176.gcc	1100	35.7	3081	35.6	3087	
181.mcf	1800	45.1	3993	44.9	4012	
186.crafty	1000	29.0	3451	29.0	3451	
197.parser	1800	84.8	2122	84.9	2121	
252.eon	1300	32.3	4020	32.4	4013	
253.perlbmk	1800	51.6	3492	51.6	3492	
254.gap	1100	42.1	2611	42.3	2598	
255.vortex	1900	42.4	4479	42.3	4491	
256.bzip2	1500	60.3	2486	60.3	2486	
300.twolf	3000	92.1	3256	92.1	3256	

### Hardware

CPU: Intel Xeon processor 5160 (1333MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 1 core, 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  
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.perlbmk: -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.perlbmk: 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
Other Configuration Notes
Single Processor Kernel used
```