



CINT2000 Result

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ION Computer Systems
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECint2000 = 1289
SPECint_base2000 = 1290

SPEC license #: 2697 Tested by: ION Test date: Jan-2005 Hardware Avail: Dec-2004 Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	121	1155	121	1156	
175.vpr	1400	172	815	172	815	
176.gcc	1100	71.2	1544	71.7	1534	
181.mcf	1800	303	594	303	594	
186.crafty	1000	64.5	1550	64.5	1550	
197.parser	1800	182	988	182	988	
252.eon	1300	61.3	2120	61.3	2120	
253.perlbmk	1800	92.7	1941	92.7	1941	
254.gap	1100	64.6	1702	64.6	1702	
255.vortex	1900	83.5	2277	83.5	2277	
256.bzip2	1500	138	1086	138	1086	
300.twolf	3000	324	925	324	925	

Hardware

CPU: Intel Xeon processor, 800MHz system bus
CPU MHz: 3392
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip, HyperThreading disabled
CPU(s) orderable: 1-2
Parallel: No
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
Secondary Cache: 1MB (I+D) on chip
L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1GB DDR2-400 DIMMs)
Disk Subsystem: 80GB Seagate SATA disk
Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS 3, 2.4.21-20.ELsmp, EM64T
Compiler: Intel(R) C Compiler for EM64T, V8.1 (Build 20041123)
Intel(R) C++ Compiler for EM64T, V8.1 (Build 20041123)
File System: ext3
System State: Multi-user, run level 3

Notes/Tuning Information

Portability Flags:

```

176.gcc: -Dalloca=_alloca
176.gcc: srcalt=64bitgcc35
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
252.eon: srcalt=fmax_errno
253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
-DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
-DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
-DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64
255.vortex: srcalt=closed_files
HyperThreading disabled in BIOS

```

INT Baseline optimization flags:

```

C programs: -xP -fast +FDO
C++ programs: -xP -fast +FDO

```



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Notes/Tuning Information (Continued)

INT Peak optimization flags:

```
164.gzip: -xP -fast -ansi_alias -alias_args +FDO
175.vpr: basepeak=yes
176.gcc: -xW -fast -ansi_alias -Zp16 +FDO
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```