



CINT2000 Result

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Sun Microsystems
Sun Fire V65x (3.06 GHz Xeon)

SPECint2000 = 1066
SPECint_base2000 = 1024

SPEC license #: 6 Tested by: Sun Microsystems Test date: May-2003 Hardware Avail: May-2003 Software Avail: Apr-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	129	1082	129	1082	
175.vpr	1400	206	679	206	679	
176.gcc	1100	78.6	1399	78.6	1399	
181.mcf	1800	253	711	253	711	
186.crafty	1000	90.0	1111	89.1	1123	
197.parser	1800	182	987	182	987	
252.eon	1300	121	1072	121	1072	
253.perlbmk	1800	139	1296	129	1394	
254.gap	1100	75.1	1464	75.1	1464	
255.vortex	1900	150	1269	114	1666	
256.bzip2	1500	188	797	188	797	
300.twolf	3000	373	804	327	917	

Hardware

CPU: Intel Xeon (533MHz system bus)
 CPU MHz: 3066
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 2GB (2 x 1GB)
 Disk Subsystem: 1 x 36GB Seagate Ultra320 SCSI
 Other Hardware: None

Software

Operating System: Red Hat Linux 7.3
 Compiler: Intel(R) C++ Compiler for 32-bit applications
 Version 7.1 Build 20030307Z
 C benchmarks compiled with icc
 C++ benchmarks compiled with icpc
 Microquill SmartHeap 6.02
 File System: ext2
 System State: Multi-User (run level 3), hyperthreading disabled in BIOS

Notes/Tuning Information

Portability:

```
176.gcc: -Dalloca=_alloca
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
           -DSPEC_CPU2000_GLIBC22
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
         -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_CALLOC_PROTO
```

Profile Feedback (+FDO):

```
rm -rf `pwd`/*.dyn `pwd`/*.dpi `pwd`/*.il
Pass 1: -prof_gen
Pass 2: -prof_use
```

Base Flags:

```
Base tuning for C programs: -xW -ipo -O3 +FDO
Base tuning for C++ programs: -xW -ipo +FDO
```

Peak Flags:



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Notes/Tuning Information (Continued)

```
164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: -xW -ipo +FDO
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbmk: -xW -ipo -O3 -L${SH_PATH} -lsmartheap +FDO
253.perlbmk: (SH_PATH is the path to the SmartHeap library)
254.gap: basepeak=yes
255.vortex: -xW -ipo -O3 -L${SH_PATH} -lsmartheap +FDO
255.vortex: (SH_PATH is the path to the SmartHeap library)
256.bzip2: basepeak=yes
300.twolf: -xW -ipo -O3 -L${SH_PATH} -lsmartheap +FDO
300.twolf: (SH_PATH is the path to the SmartHeap library)
2nd processor physically removed
```