CINT2000 Result

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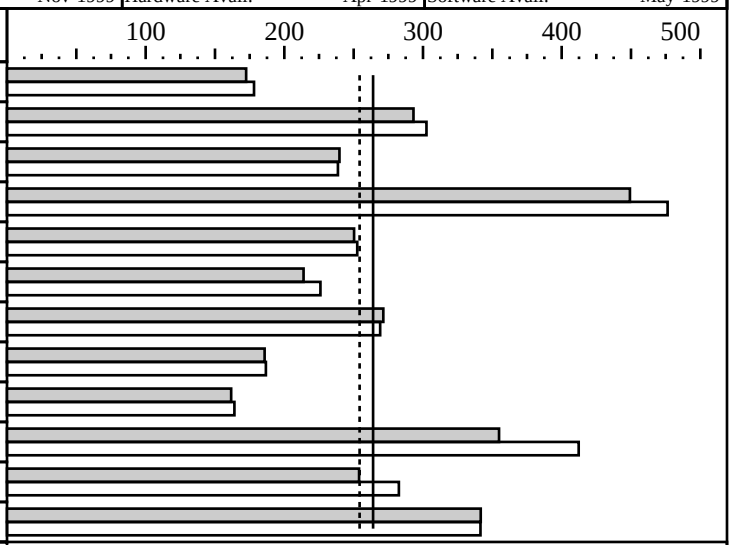
SGI
SGI 2200 2X 300MHz R12k

SPECint2000 = 264

SPECint_base2000 = 254

SPEC license #: 4 | Tested by: SGI | Test date: Nov-1999 | Hardware Avail: Apr-1999 | Software Avail: May-1999

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	812	172	786	178
175.vpr	1400	478	293	463	303
176.gcc	1100	459	240	461	239
181.mcf	1800	401	449	378	476
186.crafty	1000	400	250	396	253
197.parser	1800	842	214	796	226
252.eon	1300	479	271	483	269
253.perlbmk	1800	969	186	964	187
254.gap	1100	680	162	671	164
255.vortex	1900	535	355	461	412
256.bzip2	1500	591	254	531	283
300.twolf	3000	878	342	879	341



Hardware

CPU:	R12000
CPU MHz:	300
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	2
Parallel:	No
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	1024MB
Disk Subsystem:	1 x 9 GB SCSI
Other Hardware:	None

Software

Operating System:	IRIX 6.5.5f
Compiler:	MIPSpro 7.3 C, C++, Fortran90
File System:	xfs
System State:	Single-user

Notes/Tuning Information

```
Baseline optimization flags (C and C++ use same flags):
   PASS1 : -Ofast=ip27 -IPA:use_intrinsic -fb_create /tmp/SPEC2000/FBDIR/base/$(EXEBASE)
   PASS2 : -Ofast=ip27 -IPA:use_intrinsic -fb_opt /tmp/SPEC2000/FBDIR/base/$(EXEBASE)
Portability Flags:
   176.gcc: -DUSG  -Dalloca=__builtin_alloca -DMIPS -DHOST_WORDS_BIG_ENDIAN
   186.crafty: -DSGI
   253.perlbmk: -DSPEC_CPU2000_SGI -DI_FCNTL
   254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_IOCTL_PROTO
   300.twolf: -DHAVE_SIGNED_CHAR
Peak optimization flags:
note:  all occurances of (FEEDBACK) below means compiled with a two-step process:
   PASS1 = -fb_create /tmp/SPEC2000/FBDIR_peak/$(EXEBASE)
   PASS2 = -fb_opt /tmp/SPEC2000/FBDIR_peak/$(EXEBASE)
 164.gzip: -Ofast=ip27 -IPA:space=500:plimit=500 (FEEDBACK)
 175.vpr: -Ofast=ip27 -IPA:space=300:plimit=10000:callee_limit=5000:linear=on -LNO:prefetch_ahead=2
 .        -INLINE:aggressive=on -OPT:Olimit=0:alias=disjoint:alias=restrict (FEEDBACK)
 181.mcf: -Ofast=ip27 -IPA:min_hot=14 (FEEDBACK)
 176.gcc: -Ofast=ip27 (FEEDBACK)
 186.crafty: -Ofast=ip27 -LNO:prefetch=0 -OPT:goto=off (FEEDBACK)
 197.parser: -Ofast=ip27 -IPA:min_hot=14 (FEEDBACK)
```

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Notes/Tuning Information (Continued)

```
 252.eon: -Ofast=ip27 -LNO:prefetch=0 -LANG:exceptions=off  (FEEDBACK)
 253.perlbmk: -Ofast=ip27 -IPA:use_intrinsic -Wl,-x (FEEDBACK)
 254.gap: -Ofast=ip27 -IPA:use_intrinsic -OPT:unroll_analysis=off:unroll_size=0:unroll_times_max=4
 .         -OPT:alias=restrict:alias=disjoint  -IPA:min_hot=7  (FEEDBACK)
 255.vortex: -Ofast=ip27 -IPA:use_intrinsic -OPT:unroll_analysis=off:unroll_size=0:unroll_times_max=4 -LNO:opt=0
 .           -CG:ld_latency=5 -IPA:min_hot=14 -TENV:X=4 -IPA:space=500:plimit=3600 -OPT:goto=off (FEEDBACK)
 256.bzip2: -Ofast=ip27 -IPA:min_hot=5:space=500:plimit=2900 -INLINE:aggressive=on (FEEDBACK)
 300.twolf: -Ofast=ip27 -IPA:use_intrinsic (FEEDBACK)
The following O/S parameters were set:
  limit stacksize 500000
  setenv PAGESIZE_DATA 4096
  setenv PAGESIZE_TEXT 4096
  setenv PAGESIZE_STACK 4096
  systune -i ; percent_totalmem_4m_pages = 50 ; nlpages_4m = 128
```