



CINT2000 Result

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Sun Microsystems Sun Enterprise 420R

SPECint2000 = 214
SPECint_base2000 = 205

SPEC license #: 1986 Tested by: gcocco software, inc Test date: Mar-2001 Hardware Avail: Jun-2000 Software Avail: Jan-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	911	154	860	163	
175.vpr	1400	749	187	719	195	
176.gcc	1100	533	206	515	213	
181.mcf	1800	615	293	602	299	
186.crafty	1000	594	168	594	168	
197.parser	1800	944	191	920	196	
252.eon	1300	642	202	642	203	
253.perlbnk	1800	786	229	767	235	
254.gap	1100	675	163	675	163	
255.vortex	1900	682	279	573	332	
256.bzip2	1500	710	211	687	218	
300.twolf	3000	1342	224	1208	248	

Hardware

CPU: UltraSPARC II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1 to 4
Parallel: No
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 4MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 2*36GB(10000 RPM)
Other Hardware: None

Software

Operating System: Solaris 8 - 01/2001
Compiler: Forte Developer 6 update 1
File System: UFS
System State: multi user

Notes/Tuning Information

Forte Developer Version 6.1 Compilers

Portability Flags:

```
176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
252.eon: -library=iostream,no%Cstd
253.perlbnk: -DSPEC_CPU2000_SOLARIS
254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
        -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO
```

Base C flags: -fast -xcrossfile -xprofile

Base C++ flags: -fast -xcrossfile -xprofile

Peak Flags:

```
164.gzip: -fast (nofdo)
175.vpr: -fast -xalias_level=std -xcrossfile -xprofile -dn
176.gcc: -fast -xcrossfile -xprofile -dn
181.mcf: -fast -xcrossfile ONESTEP=no (nofdo)
186.crafty: basepeak = yes
197.parser: -fast -xalias_level=std -xcrossfile -xprofile -dn
252.eon: -fast -xcrossfile -xprofile -dn
```



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Notes/Tuning Information (Continued)

```
253.perlbnk: -fast -xalias_level=std -xcrossfile -xprofile -dn
254.gap:      basepeak = yes
255.vortex:  -fast -xsafe=mem -xcrossfile -W2,-Mt500,-Mr6000,-crit
             -xalias_level=std -xprofile -dn
256.bzip2:   -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=std
             -Wc,-Qiselect-funcalign=32 -xprofile -dn
300.twolf:   -fast -xO5 -xarch=v8plus -W2,-whole -xprofile -dn
```

(nofdo): no feedback directed optimization

Proper operation of `-xcrossfile` requires the simultaneous presentation of all source files to the compiler. This is accomplished within the SPECcpu2000 suite by setting `ONESTEP=yes`.

For more information, see the tester's website: <http://www.gcocco.com>