CINT2000 Result

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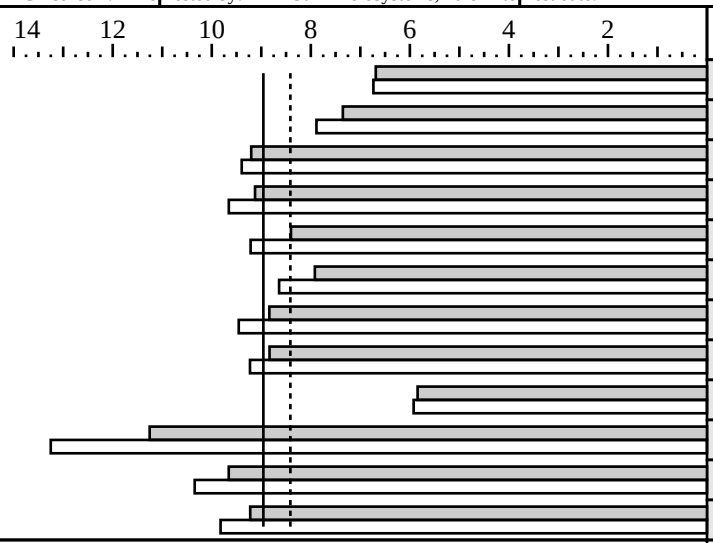
Sun Microsystems
Sun Fire 280R

SPECint_rate2000 = 8.96

SPECint_rate_base2000 = 8.41

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: Apr-2001 | Hardware Avail: Mar-2001 | Software Avail: Jan-2001



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	486	6.69	2	482	6.74
175.vpr	2	442	7.35	2	412	7.89
176.gcc	2	277	9.20	2	272	9.39
181.mcf	2	458	9.13	2	432	9.66
186.crafty	2	276	8.40	2	252	9.22
197.parser	2	527	7.92	2	483	8.64
252.eon	2	341	8.84	2	319	9.46
253.perlbmk	2	473	8.83	2	453	9.23
254.gap	2	437	5.84	4	862	5.92
255.vortex	2	392	11.3	2	333	13.3
256.bzip2	2	360	9.66	2	336	10.3
300.twolf	2	755	9.22	2	709	9.82

Hardware

CPU:	UltraSPARC-III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	1 x 36GB + 1 x 9GB
Other Hardware:	--

Software

Operating System:	Solaris 8 1/01
Compiler:	Forte Developer 6 update 1 with patches
File System:	UFS
System State:	single user

Notes/Tuning Information

```
Portability:
176.gcc       : -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty    : -DSUN
252.eon       : -library=iostream
253.perlbmk   : -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 Flags:
Base C   flags: -fast -xcrossfile -xprofile
Base C++ flags: -fast -xcrossfile -xprofile

Peak Flags:
164.gzip      : -fast -xalias_level=std -xcrossfile -W2,-whole -xprofile
175.vpr       : -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -W2,-whole -xprofile -lmopt
176.gcc       : -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
181.mcf       : -fast -xcrossfile -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xsafe=mem -xprofile
186.crafty    : -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -xregs=syst  -xchip=ultra2 -xprofile
197.parser    : -fast -xcrossfile -xdepend -xregs=syst -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -xprofile
252.eon       : -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
```

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Notes/Tuning Information (Continued)

-Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile

253.perlbmk : -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1 -xalias_level=std -xsafe=mem -xprofile

254.gap : -fast -xarch=v8 -W2,-crit,-whole -xcrossfile -Wc,-Qiselect-funcalign=32 -xalias_level=std -xprofile

255.vortex : -fast -xsafe=mem -xcrossfile -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0 -xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile

256.bzip2 : -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=strong -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile

300.twolf : -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile

Note: ONESTEP=yes for all benchmarks.
Note: Forte Developer 6 update 1 patches include:
109503-02,109504-01,109505-08,109506-02,109508-04,109510-01,109513-06
System configuration details located (as of 06/26/2001) at http://www.sun.com/servers/workgroup/280r
Patch 111228-01 and obp 4.0.46 (or later) is required.