CINT2000 Result

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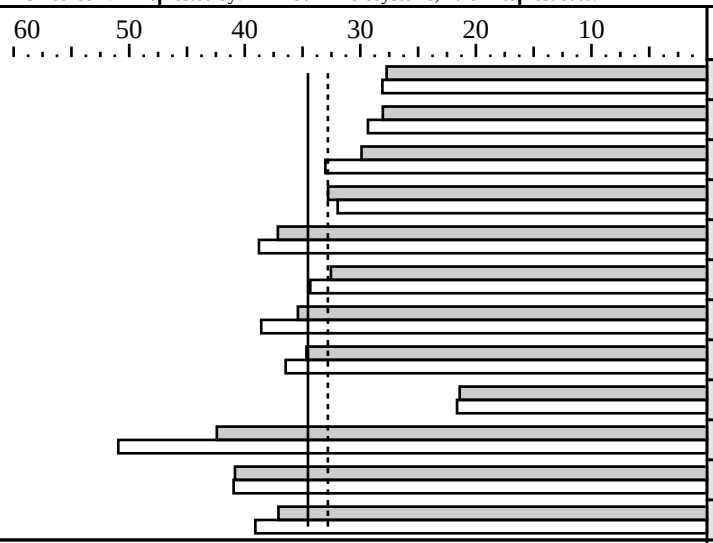
Sun Microsystems
Sun Fire 3800

SPECint_rate2000 = 34.5

SPECint_rate_base2000 = 32.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	469	27.7	8	462	28.1
175.vpr	8	463	28.1	8	443	29.3
176.gcc	8	341	29.9	8	309	33.0
181.mcf	8	509	32.8	8	523	32.0
186.crafty	8	250	37.1	8	239	38.8
197.parser	8	513	32.5	8	487	34.3
252.eon	8	341	35.4	8	313	38.6
253.perlbmk	8	482	34.7	8	458	36.5
254.gap	8	477	21.4	8	472	21.6
255.vortex	8	416	42.4	8	346	50.9
256.bzip2	8	341	40.8	8	340	41.0
300.twolf	8	751	37.1	8	712	39.1

Hardware

CPU:	UltraSPARC-III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	2 to 8
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	16GB
Disk Subsystem:	2x18GB (system disks) 4x(9x18GB raid5) 4-way striped
Other Hardware:	

Software

Operating System:	Solaris 8 4/01
Compiler:	Sun Forte Developer 6u2
File System:	UFS
System State:	Multi-user

Notes/Tuning Information

```
Portability: 252.eon: -library=iostream,no%Cstd

Base C   flags: -fast -xcrossfile -xprofile -xalias_level=basic
Base C++ flags: -fast -xcrossfile -xprofile

Note:  ONESTEP=yes for all benchmarks in base and peak

164.gzip:  -fast -xalias_level=std -xcrossfile -W2,-whole -xprofile
175.vpr:  -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst
          -W2,-whole -xprofile
176.gcc:  -fast -xcrossfile -W2,-whole -xprofile -dn
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 -xprofile -xregs=syst -Wc,
           -Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong
```

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Notes/Tuning Information (Continued)

```
252.eon -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,
        -restrict_g,-restrict -Qoption cg -Qgsched-trace_late=1,
        -Qgsched-T4 -xprofile -lmopt
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 -xrestrict -xdepend
           -Wc,-Qdepgraph-early_cross_call=1 -xprofile
           -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0
           -Wc,-Qgsched-trace_late=1,-Qgsched-T4
256.bzip2 -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=std
          -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf -fast -xalias_level=std -xcrossfile -W2,-whole -xsafe=mem
          -xprofile
```