CINT2000 Result

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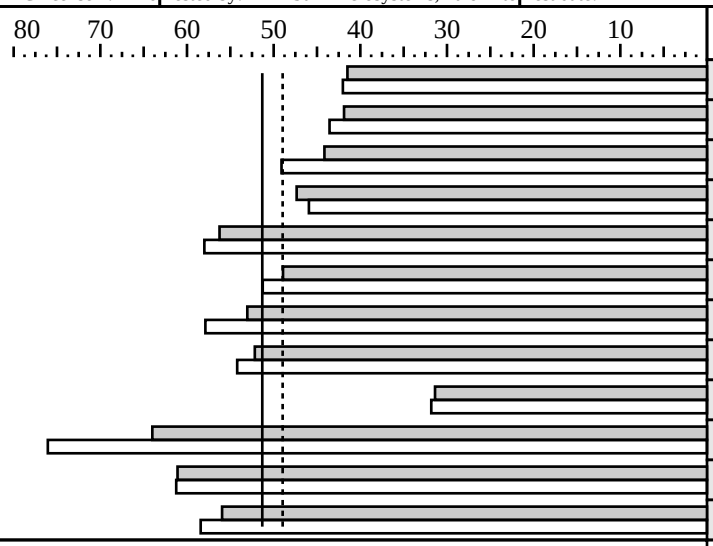
Sun Microsystems
Sun Fire 4800

SPECint_rate2000 = 51.3

SPECint_rate_base2000 = 49.0

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	12	470	41.5	12	464	42.0
175.vpr	12	465	41.9	12	447	43.6
176.gcc	12	347	44.1	12	312	49.1
181.mcf	12	529	47.3	12	545	45.9
186.crafty	12	247	56.2	12	240	58.0
197.parser	12	512	48.9	12	489	51.3
252.eon	12	341	53.0	12	313	57.9
253.perlbmk	12	480	52.2	12	462	54.2
254.gap	12	488	31.4	12	481	31.8
255.vortex	12	413	64.0	12	348	76.1
256.bzip2	12	342	61.1	12	341	61.2
300.twolf	12	746	56.0	12	715	58.4

Hardware

CPU:	UltraSPARC-III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	12 cores, 12 chips, 1 core/chip
CPU(s) orderable:	2 to 12
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	24GB
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 Veritas VxVM
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
```