CINT2000 Result

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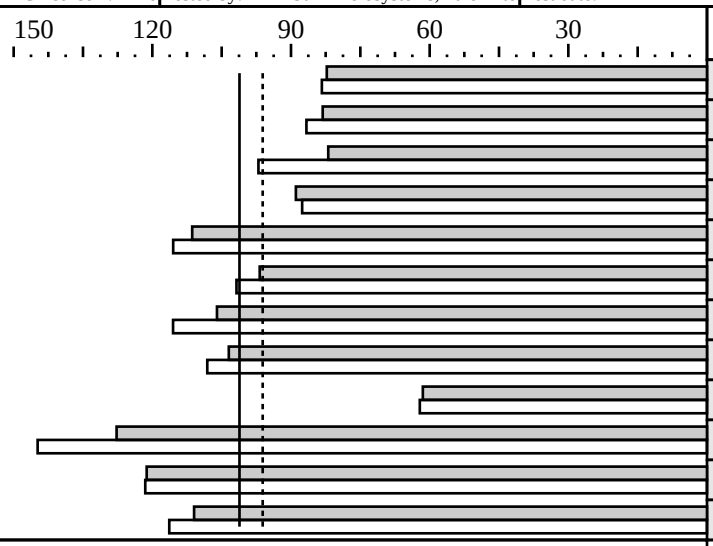
Sun Microsystems
Sun Fire 6800

SPECint_rate2000 = 101

SPECint_rate_base2000 = 96.1

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	24	474	82.3	24	468	83.3
175.vpr	24	469	83.1	24	450	86.7
176.gcc	24	374	81.9	24	316	97.0
181.mcf	24	563	88.9	24	572	87.6
186.crafty	24	250	111	24	241	115
197.parser	24	518	96.8	24	492	102
252.eon	24	341	106	24	313	116
253.perlbmk	24	484	103	24	464	108
254.gap	24	498	61.5	24	493	62.1
255.vortex	24	414	128	24	365	145
256.bzip2	24	344	121	24	344	122
300.twolf	24	753	111	24	718	116

Hardware

CPU:	UltraSPARC-III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	24 cores, 24 chips, 1 core/chip
CPU(s) orderable:	2 to 24
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	48GB
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
```