CINT2000 Result

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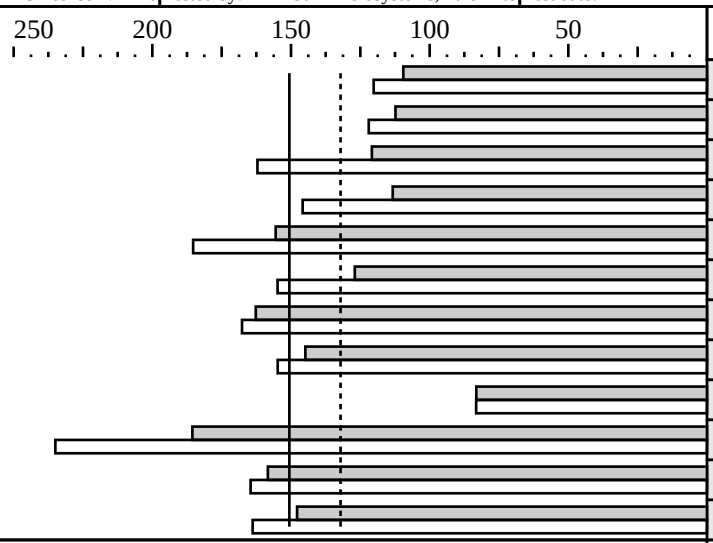
Sun Microsystems
Sun Fire 6800

SPECint_rate2000 = 151

SPECint_rate_base2000 = 132

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: May-2002 | Hardware Avail: Aug-2002 | Software Avail: May-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	24	356	109	24	324	120
175.vpr	24	347	112	24	320	122
176.gcc	24	253	121	24	189	162
181.mcf	24	442	113	24	344	146
186.crafty	24	179	156	24	150	185
197.parser	24	395	127	24	324	155
252.eon	24	222	163	24	216	168
253.perlbmk	24	346	145	24	324	155
254.gap	24	368	83.2	24	368	83.2
255.vortex	24	285	186	24	225	235
256.bzip2	24	264	158	24	254	165
300.twolf	24	565	148	24	510	164

Hardware

CPU:	UltraSPARC III Cu
CPU MHz:	1050
FPU:	Integrated
CPU(s) enabled:	24 cores, 24 chips, 1 core/chip
CPU(s) orderable:	4-24, by 4
Parallel:	No
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip per cpu
L3 Cache:	None
Other Cache:	None
Memory:	48GB, 16-way interleave per board
Disk Subsystem:	1x18GB (O/S) 4x(Sun StorEdge T3, 9x18GB raid5) 4-way striped
Other Hardware:	None

Software

Operating System:	Solaris 8 02/02 Solstice DiskSuite, bundled
Compiler:	Forte Developer 7 with patch 111704-01 Sun Performance Library 7
File System:	UFS
System State:	Multi-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

-xprofile: PASS1=-xprofile=collect, PASS2=-xprofile=use

Base Flags:
 Base C   flags: -fast -xcrossfile -ll2amm -xprofile
 Base C++ flags: -fast -xcrossfile -xprofile

Peak Flags:
 164.gzip: -xO5 -xtarget=native -xalias_level=std -W2,-whole
     -xcrossfile -W2,-Ainline -xprofile
```

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Notes/Tuning Information (Continued)

```
 175.vpr: -fast -xalias_level=std -xcrossfile -xsfpconst -W2,-whole
     -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1,
     -Qeps:rp_filtering_margin=100 -xregs=syst -lmopt -lm -xprofile
 176.gcc: -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,
     -Qgsched-T4 -ll2amm -xprofile
 181.mcf: -fast -Wc,-Qlp=1-fa=1-av=64-t=3-fl=1 -lprism32 -xprofile
 186.crafty: -fast -xF -xinline= -xcrossfile
     -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong
     -xregs=syst -W2,-Ashort_ldst,-Aivel:duplicate_loops -xprofile
 197.parser: -fast -xprefetch=no%auto -xcrossfile -xregs=syst
     -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong
     -Wc,-Qipa:valueprediction -xprofile
 252.eon: -fast -xcrossfile -xalias_level=compatible -xsafe=mem
     -Qoption iropt -Mt500,-xrestrict -Qoption cg -Qgsched-trace_late=1,
     -Qgsched-T4 -lmopt -xprofile
 253.perlbmk: -xO5 -xtarget=native -xcrossfile -xalias_level=std
     -xsafe=mem -Wc,-Qgsched-trace_late=1,-Qgsched-T4,
     -Qgsched-trace_spec_load=1 -Wc,-Qinline_memcpy=32
     -Wc,-Qiselect-funcalign=32,-Qicache-chbab=1
     -Wc,-Qiselect-sw_pf_tbl_th=20 -xprofile
 254.gap: -fast -xcrossfile -W2,-whole -xprofile
 255.vortex: -fast -xcrossfile -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1
     -Wc,-Qinline_memcpy=64 -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,
     -Mr6000,-crit -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0 -xrestrict
     -ll2amm -xprofile
 256.bzip2: -fast -W2,-Abopt -xcrossfile -xalias_level=strong
     -Wc,-Qiselect-funcalign=32 -xregs=syst -xprofile
 300.twolf: -fast -xalias_level=strong -xsafe=mem -xcrossfile
     -xprefetch=no%auto -Wc,-Qms_pipe+intdivusefp -xprofile
ONESTEP=yes for all benchmarks in base and peak

Shell Environments:
 LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:
                 /opt/SUNWspro/prod/lib/v8plusb
 PRISM_HEAP=268435456
 PRISM_MODE=2

 Stack size set to unlimited via "ulimit -s unlimited"


Kernel Parameters (/etc/system):
 set shmsys:shminfo_shmmin=1
 set shmsys:shminfo_shmmax=0xffffffffffffffff
 set shmsys:shminfo_shmmni=4096
 set shmsys:shminfo_shmseg=512

System configuration details located (as of May 2002) at
     http://www.sun.com/servers/midrange
```