CINT2000 Result

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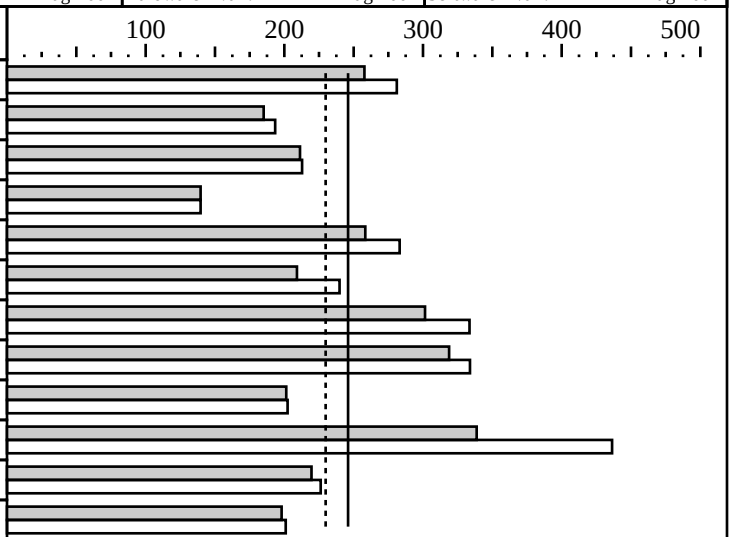
Sun Microsystems
Sun Blade 150 (650 MHz)

SPECint2000 = 246

SPECint_base2000 = 230

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	543	258	498	281
175.vpr	1400	756	185	724	193
176.gcc	1100	521	211	517	213
181.mcf	1800	1289	140	1289	140
186.crafty	1000	387	258	353	283
197.parser	1800	861	209	751	240
252.eon	1300	431	301	390	334
253.perlbmk	1800	565	319	539	334
254.gap	1100	546	201	544	202
255.vortex	1900	561	339	435	436
256.bzip2	1500	683	220	663	226
300.twolf	3000	1515	198	1493	201



Hardware

CPU:	UltraSPARC IIi
CPU MHz:	650
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	512KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	256MB
Disk Subsystem:	1 x Seagate ST340016A
Other Hardware:	None

Software

Operating System:	Solaris 8 2/02
Compiler:	Sun ONE Studio 7 and 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

Profile Feedback (-xprofile):
       fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache
         Pass 1: -xprofile=collect:./feedback
         Pass 2: -xprofile=use:./feedback
Base Flags:
 Base C   flags: -fast -xcrossfile -xprofile
 Base C++ flags: -fast -xcrossfile -xprofile

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

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Notes/Tuning Information (Continued)

```
                -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1,-Qeps:rp_filtering_margin=100
                 -xregs=syst -lmopt -xprofile
        176.gcc: -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
        181.mcf: basepeak=yes
     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 -xchip=generic -xcrossfile -xalias_level=compatible -xsafe=mem
               -Qoption iropt -Mt500,-xrestrict -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4
                 -dn -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 -xalias_level=std -xprefetch=no%auto -xprofile
     255.vortex: -fast -xcrossfile -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1
               -Wc,-Qinline_memcpy=32 -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
                 -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32
                 -Wc,-Qpeep-Sh0 -xrestrict -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 -xprofile

ONESTEP=yes for all benchmarks in base and peak


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

Software Patches: All patches for the Sun ONE Studio 7 Compiler (Product Patches and
OS patches) as recommended by http://access1.sun.com/sundev/s1s7-patches.html on Aug
the 7th, 2002 were installed (111704-03 111705-02 111706-01 111708-01 111709-01
111714-01 111715-01 111716-02 111718-01 111723-01 108434-08 108435-08 111697-03
111721-02)
```