



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.perlbnk	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.perlbnk: -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 -l12amm -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 -xsfpcnst -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.perlbnk: -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_shmmmin=1
set shmsys:shminfo_shmmmax=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>