



# CINT2000 Result

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Sun Microsystems  
Sun Blade Model 2050

SPECint\_rate2000 = 14.0  
SPECint\_rate\_base2000 = 12.3

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Nov-2001 Hardware Avail: Feb-2002 Software Avail: Feb-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	324	10.0	2	299	10.9
175.vpr	2	308	10.6	2	273	11.9
176.gcc	2	200	12.8	2	165	15.4
181.mcf	2	293	14.3	2	248	16.8
186.crafty	2	179	13.0	2	146	15.9
197.parser	2	369	11.3	2	298	14.0
252.eon	2	246	12.3	2	225	13.4
253.perlbnk	2	334	12.5	2	306	13.7
254.gap	2	309	8.27	2	301	8.49
255.vortex	2	259	17.0	2	207	21.3
256.bzip2	2	239	14.6	2	227	15.3
300.twolf	2	526	13.2	2	465	15.0

### Hardware

CPU: UltraSPARC III Cu  
CPU MHz: 1050  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 2  
Parallel: No  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 8GB  
Disk Subsystem: 2 x 73GB  
Other Hardware: None

### Software

Operating System: Solaris 8 10/01  
Compiler: C: Forte Developer 7 EA  
C++: Forte Developer 6 update 2  
File System: tmpfs  
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
```

### Base Flags:

```
Base C flags: -fast -xcrossfile -l12amm -xprofile
Base C++ flags: -fast -xcrossfile -xprofile
```

### Peak Flags:

```
164.gzip: -x05 -xtarget=native -xalias_level=std -W2,-whole -xcrossfile -W2,-Ainline -xprofile
175.vpr: -fast -xalias_level=std -xcrossfile -xsfpconst -xdepend -W2,-whole
        -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 -l12amm -xprofile
181.mcf: -fast -xcrossfile -xprefetch -xdepend
```



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## Notes/Tuning Information (Continued)

```

-Wc,-Qms_pipe-pref,-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 -xdepend -xprefetch=no%auto -xcrossfile -xregs=syst
-Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -Wc,-Qipa:valueprediction -xprofile
252.eon: -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-xrestrict
-Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile
-Wc,-Qiselect-sw_pf_tbl_th=20 -xprofile
253.perlbnk: -xO5 -xtarget=ative -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
254.gap: -fast -xcrossfile -xalias_level=std -xprefetch -W2,-whole -lprism32 -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 -xdepend -ll2amm -lprism32 -xprofile
256.bzip2: -fast -W2,-Abopt -xcrossfile -xalias_level=strong
-Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf: -fast -xalias_level=strong -xsafe=mem -xcrossfile -xprefetch=no%auto
-Wc,-Qms_pipe+intdivusefp -xprofile

```

Forte Developer 7 EA (Early Access) will ship by Feb-2002  
Forte Developer 7 (final) will ship May-2002

ONESTEP=yes for all benchmarks in base and peak

### Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/opt/fd7/lib/v8plusb:/opt/fd7/YNH/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=1477846784
set shmsys:shminfo_shmmni=256
set shmsys:shminfo_shmseg=400

```

System configuration details located (as of Nov 2001) at  
<http://www.sun.com/desktop/products/ws.html>