



CINT2000 Result

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Sun Microsystems
Sun Fire 280R

SPECint2000 = 391
SPECint_base2000 = 365

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Dec-2000 Hardware Avail: Jan-2001 Software Avail: Jan-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	528	265	480	292	
175.vpr	1400	434	322	404	346	
176.gcc	1100	266	414	262	420	
181.mcf	1800	433	416	403	447	
186.crafty	1000	278	359	255	391	
197.parser	1800	526	342	487	370	
252.eon	1300	335	388	328	396	
253.perlbnk	1800	471	382	454	397	
254.gap	1100	424	260	416	264	
255.vortex	1900	390	487	322	590	
256.bzip2	1500	360	416	333	451	
300.twolf	3000	760	395	709	423	

Hardware

CPU: UltraSPARC-III
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1-2
Parallel: No
Primary Cache: 32KBI+64KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 1 x 36 GB + 1 x 9 GB
Other Hardware: --

Software

Operating System: Solaris 8 update 3
Compiler: Forte Developer 6 update 1
File System: UFS
System State: single user

Notes/Tuning Information

Portability: 176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN

Portability: 186.crafty: -DSUN

Portability: 252.eon: -library=iostream,no%Cstd

Portability: 254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO

Base C flags: -fast -xcrossfile -xprofile

Base C++ flags: -fast -xcrossfile -xprofile MATHLIBOPT=

Peak:

164.gzip: -fast -xalias_level=std -xcrossfile -W2,-whole -xprofile

175.vpr: -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -W2,-whole -xprofile -lmopt

176.gcc: -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile

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 -xregs=syst -Wc,-Qgsched-trace_late=1,-Qgsched-T4

-xalias_level=strong -xprofile

252.eon: -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict

-Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile -lmopt

253.perlbnk: -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1

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info@spec.org

http://www.spec.org



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Notes/Tuning Information (Continued)

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-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
        -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0
        -xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
256.bzip2: -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=strong -Wc,-Qiselect-funcalign=32
        -xdepend -xregs=syst -xprofile
300.twolf: -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile
Note: ONESTEP=yes in base and peak for all benchmarks.
```

Note: Forte Developer 6 update 1 patches include:
109505-08,109508-04,109513-06

For results with patch 111228-01 and obp 4.0.40 or later (included
in standard configuration) see publication in July-2001