CINT2000 Result

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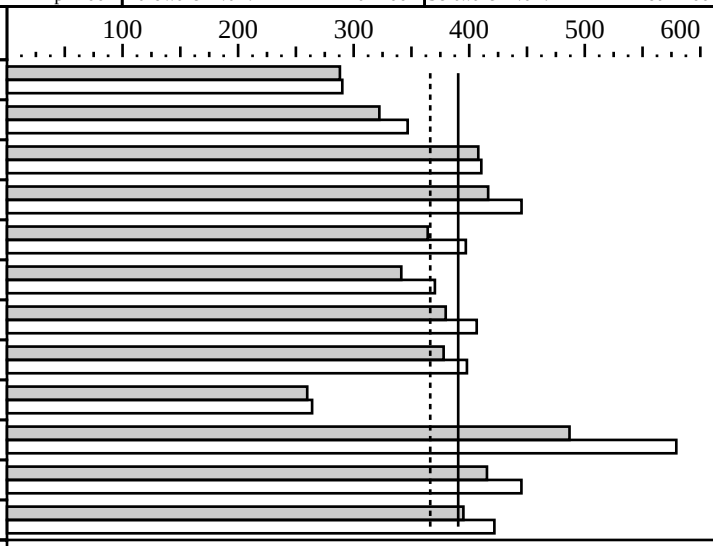
Sun Microsystems
Sun Fire 280R

SPECint2000 = 390

SPECint_base2000 = 366

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	486	288	482	290
175.vpr	1400	434	322	404	347
176.gcc	1100	270	408	268	410
181.mcf	1800	432	416	404	445
186.crafty	1000	275	364	252	397
197.parser	1800	528	341	486	370
252.eon	1300	342	380	320	406
253.perlbmk	1800	476	378	452	398
254.gap	1100	423	260	417	264
255.vortex	1900	390	487	328	579
256.bzip2	1500	361	415	337	445
300.twolf	3000	760	395	711	422



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:	None
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 36GB + 1 x 9GB
Other Hardware:	--

Software

Operating System:	Solaris 8 1/01
Compiler:	Forte Developer 6 update 1 with patches
File System:	UFS
System State:	single user

Notes/Tuning Information

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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

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

Peak Flags:
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
```

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Notes/Tuning Information (Continued)

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

253.perlbmk : -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1 -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 for all benchmarks.
Note: Forte Developer 6 update 1 patches include:
109503-02,109504-01,109505-08,109506-02,109508-04,109510-01,109513-06
System configuration details located (as of 06/26/2001) at http://www.sun.com/servers/workgroup/280r
Patch 111228-01 and obp 4.0.46 (or later) is required.