SPEC CINT95rate Results

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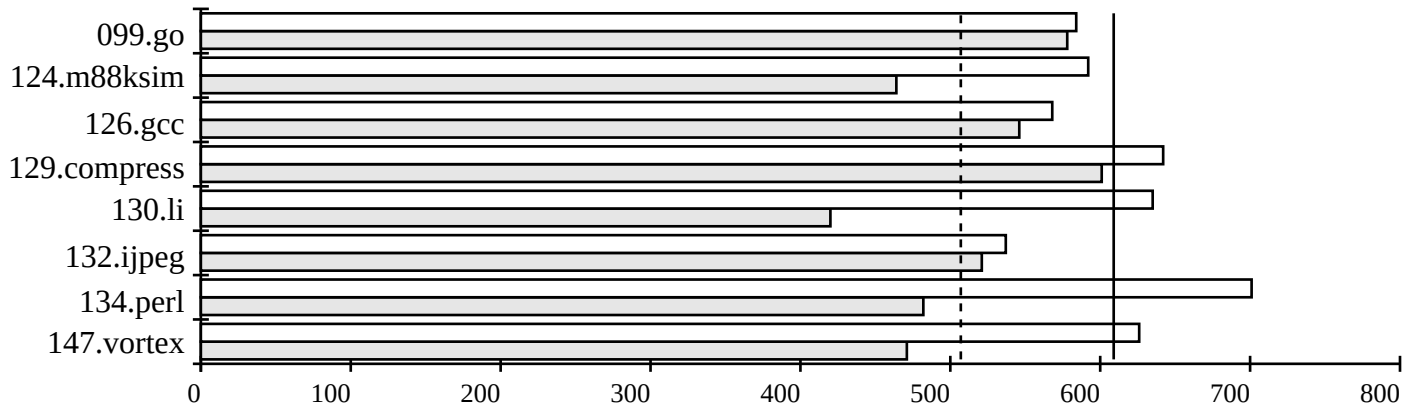
Sun Microsystems
Sun Enterprise 450

SPECint_rate95 = 609

SPECint_rate_base95 = 507

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Oct-98	Hardware Avail: Nov-98	Software Avail: Feb-99



Hardware/Software Configuration for:
Sun Enterprise 450

Hardware

Model Name:	Sun Enterprise 450
CPU:	400 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	4MB (I+D) off chip
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	2 x 4.2GB
Other Hardware:	Fast Ethernet

Software

Operating System:	Solaris 7 (kernel/unix)
Compiler:	Sun C 5.0 Early Access
File System:	UFS
System State:	Single User
Kernel Extensions:	consistent_coloring=1

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	4	286	578	4	283	584
124.m88ksim	4	147	464	8	231	592
126.gcc	4	112	546	8	215	568
129.compress	4	108	601	4	101	642
130.li	4	163	420	4	108	635
132.ijpeg	4	166	521	4	161	537
134.perl	4	142	482	8	195	701
147.vortex	4	206	471	8	311	626
SPECint_rate_base95 (G. Mean)			507			
				SPECint_rate95 (G. Mean)		609

Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback
Baseline: -fast -xO5 -xarch=v8plusa; PASS1= ${P1}; PASS2= ${P2}
CULTRA= -xarch=v8plusa -xchip=ultra; ALIGN = -Wc,-Qiselect-funcalign=32,-Qicache-L1-bsize=4-bbits=7
099.go: -fast -xO4 -xarch=v8plus -xrestrict -xcrossfile -W2,-O4+ansi_alias+bopt
099.go: PASS1= ${P1}; PASS2= ${P2} ${ALIGN} -dn
124.m88ksim: -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile -xrestrict -W2,-O4+cond_elim+pde, -ldstr,
124.m88ksim: -Mt8500 -Wc,-Qiselect-sw_pf_tbl_th=20; PASS1= ${P1}; PASS2= ${P2} -dn
126.gcc: -fast -xO4 -xarch=v8plus -W2,-O4+ansi_alias+cond_elim; PASS1= ${P1}; PASS2= ${P2} -dn
129.compress: -fast -xO5 -xsafe=mem -xarch=v8plus -xrestrict -W2,-O4+ansi_alias+pde -Wc -Qms_pipe+unoovf
129.compress: PASS1= ${P1}; PASS2= ${P2} -dn
130.li: -fast -x04 ${CULTRA}; PASS1= -fast -xO4 -xarch=v8plus -xcrossfile ${P1}
130.li: PASS2= -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile
130.li: -W2,-O4+ansi_alias+cond_elim+pde,-Mt350,-whole,-crit ${P2} -dn
132.ijpeg: -fast -xO5 -xsafe=mem  -xarch=v8plus -W2,-O4+ansi_alias+cond_elim
132.ijpeg: PASS1= ${P1}; PASS2= ${P2} -dn
134.perl: -fast -xO4 ${CULTRA} -xcrossfile -W2,-Mp1,-ANSI_S,-O4+cond_elim -Wc,-Qiselect-sw_pf_tbl_th=30
134.perl: PASS1= ${P1}; PASS2= ${P2} -dn
147.vortex: -fast -x04 ${CULTRA}; PASS1= -fast -xO4 -xarch=v8plus -xcrossfile ${P1}
147.vortex: PASS2= -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile ${P2} -W2,-O4+cond_elim,-Mt500,-Mr6000,-crit -dn
Portability: 124.m88ksim, 132.ijpeg: -DSYSV -Xc, 126.gcc: -Dalloca=__builtin_alloca -Xc
others: -Xc
Shell limits: # ulimit -n 1024  or % limit descriptors 1024; Config file: 4CPU.r.E450_DT.pub.int.fp_2.cfg 98/10/22
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