SPEC CINT95 Results

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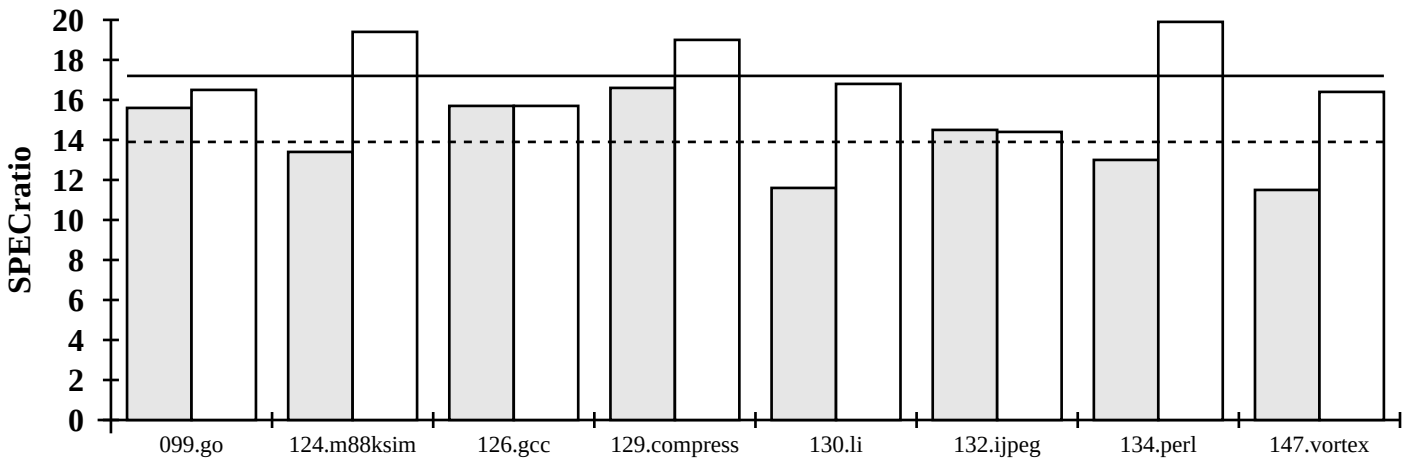
Sun Microsystems
Ultra 2 Model 1400

SPECint95 = 17.2

SPECint_base95 = 13.9

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Apr-99	Hardware Avail: May-99	Software Avail: Feb-99



Hardware/Software Configuration for:
Ultra 2 Model 1400

Hardware

Model Name:	Ultra 2 Model 1400
CPU:	400 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2MB(I+D) off chip
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 x 9.1GB (7200 RPM)
Other Hardware:	Fast Ethernet System clock frequency: 100 MHz

Software

Operating System:	Solaris 2.6 Hardware 3/98
Compiler:	Sun WorkShop C 5.0
File System:	UFS
System State:	Single User
Kernel Extensions:	consistent_coloring=1

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
099.go	4600	295	15.6	278	16.5
124.m88ksim	1900	142	13.4	98	19.4
126.gcc	1700	108	15.7	108	15.7
129.compress	1800	109	16.6	95	19.0
130.li	1900	164	11.6	113	16.8
132.ijpeg	2400	165	14.5	167	14.4
134.perl	1900	146	13.0	96	19.9
147.vortex	2700	234	11.5	165	16.4
SPECint_base95 (G. Mean)			13.9		
		SPECint95 (G. Mean)			17.2

Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback; FOPTION= -fast -xarch=v8plusa -s
Baseline: -fast -xO5 -xarch=v8plusa
Baseline: PASS1= ${P1}; PASS2= ${P2}
099.go: ${FOPTION} -xO4 -xrestrict -xcrossfile -W2,-O4+ansi_alias+bopt
099.go: PASS1= ${P1}; PASS2= ${P2} ${ALIGN} -dn
124.m88ksim: ${FOPTION} -xO5 -xsafe=mem  -xcrossfile -xrestrict -W2,-O4+cond_elim+pde,-ldstr,-Mt8500 -Wc,-Qiselect-sw_pf_tbl_th=20
124.m88ksim: PASS1= ${P1}; PASS2= ${P2} -dn
126.gcc: ${FOPTION} -xO4 -W2,-O4+ansi_alias+cond_elim
126.gcc: PASS1= ${P1}; PASS2= ${P2}
129.compress: ${FOPTION} -xO5 -xrestrict -W2,-O4+ansi_alias+pde -Wc,-Qms_pipe+unoovf
129.compress: PASS1= ${P1}; PASS2= ${P2} -dn
130.li: PASS1= -xO4 -xcrossfile ${P1}
130.li: PASS2= -xO5 -xsafe=mem -xcrossfile -W2,-O4+ansi_alias+cond_elim+pde,-Mt350,-whole,-crit ${P2} -dn
132.ijpeg: ${FOPTION} -xO5 -xsafe=mem  -W2,-O4+ansi_alias+cond_elim
132.ijpeg: PASS1= ${P1}; PASS2= ${P2} -dn
134.perl: ${FOPTION} -xO4  -xcrossfile -W2,-ANSI_S,-Mp1,-O4+cond_elim -Wc,-Qiselect-sw_pf_tbl_th=30
134.perl: EXTRA_LIBS= -lfast; PASS1= ${P1}; PASS2= ${P2} -dn
147.vortex: PASS1= -xO4 -xcrossfile ${P1}
147.vortex: PASS2= -xO5 -xsafe=mem -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: ultrabest.cfg
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