SPEC CINT95rate Results

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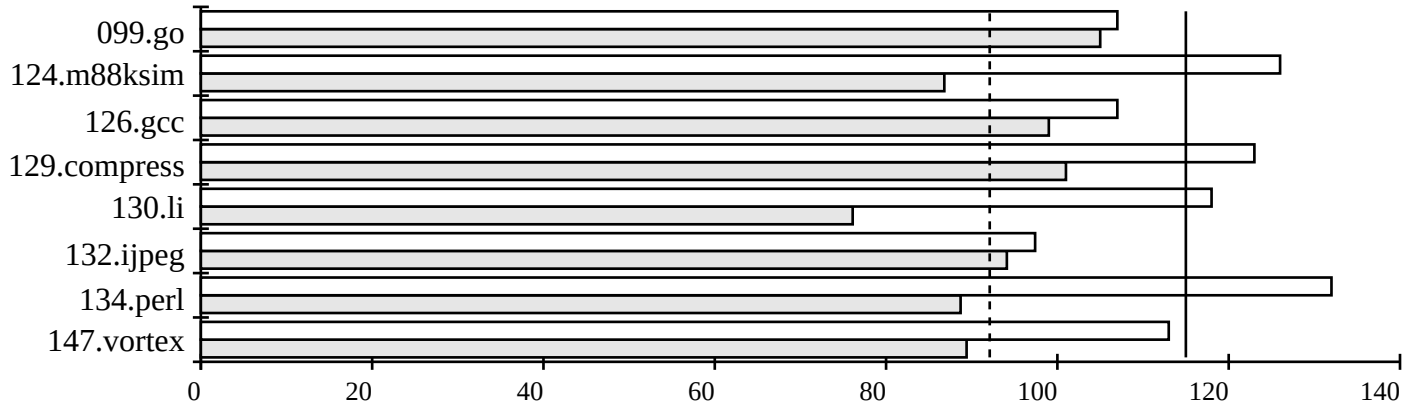
Sun Microsystems
Ultra 450

SPECint_rate95 = 115

SPECint_rate_base95 = 92.1

SPEC license # 6	Tested By: Sun, Palo Alto	Test Date: Apr-98	Hardware Avail: Jul-98	Software Avail: Oct-98



Hardware/Software Configuration for:
Ultra 450

Hardware

Model Name:	Ultra 450
CPU:	296 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 4.0GB
Other Hardware:	Fast Ethernet System clock frequency: 99 MHz

Software

Operating System:	Solaris 2.6 3/98
Compiler:	Sun C SC5.0 EFT1 (8/98)
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	2	788	105	2	772	107
124.m88ksim	2	394	86.8	2	272	126
126.gcc	2	309	99.0	2	287	107
129.compress	2	321	101	2	264	123
130.li	2	450	76.1	2	290	118
132.ijpeg	2	459	94.1	2	443	97.4
134.perl	2	385	88.7	2	260	132
147.vortex	2	544	89.4	2	429	113
SPECint_rate_base95 (G. Mean)			92.1			
			SPECint_rate95 (G. Mean)			115

Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback
Baseline: -fast -xO5 -xarch=v8plusa
Baseline: PASS1= ${P1}; PASS2= ${P2}
Peak: -fast -xO4 -xarch=v8plusa -xchip=ultra
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,-Mt8500 -Wc,-Qiselect-sw_pf_tbl_th=20
124.m88ksim: PASS1= ${P1}; PASS2= ${P2} -dn
126.gcc: -fast -xO4 -xarch=v8plus -W2,-O4+ansi_alias+cond_elim
126.gcc: PASS1= ${P1}; PASS2= ${P2}
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: PASS1= -fast -xO4 -xarch=v8plus -xcrossfile ${P1}
130.li: PASS2= -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile -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,-ANSI_S,-Mp1,-O4+cond_elim -Wc,-Qiselect-sw_pf_tbl_th=30
134.perl: PASS1= ${P1}; PASS2= ${P2} -dn
147.vortex: 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: ultra450_int.cfg
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