SPEC CINT95rate Results

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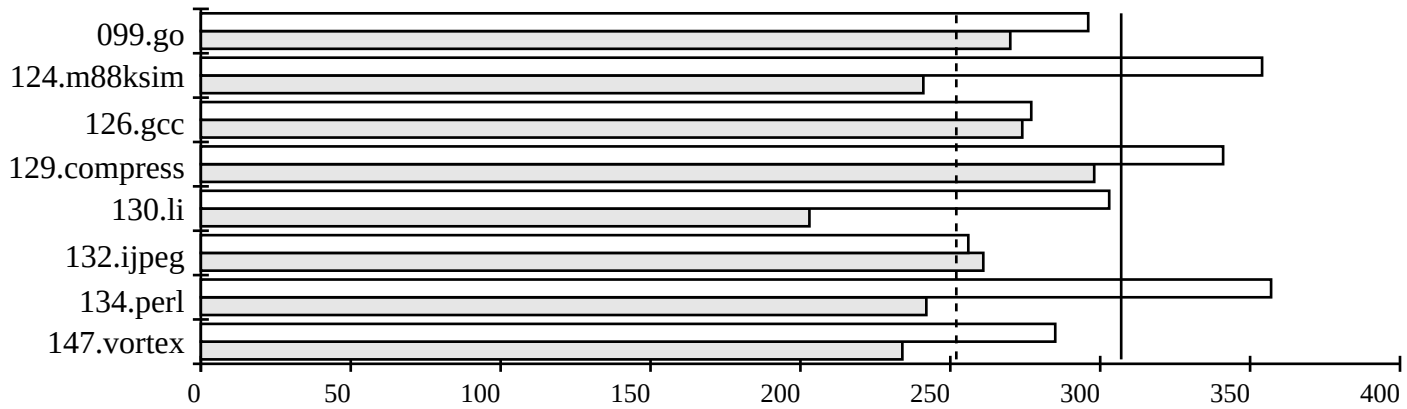
Sun Microsystems
Ultra 2 Model 2400

SPECint_rate95 = 307

SPECint_rate_base95 = 252

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 2400

Hardware

Model Name:	Ultra 2 Model 2400
CPU:	400 MHz UltraSPARC-II
FPU:	Integrated
Number of CPU(s):	2
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	2	306	270	2	280	296
124.m88ksim	2	142	241	2	97	354
126.gcc	2	112	274	4	221	277
129.compress	2	109	298	2	95	341
130.li	2	168	203	2	113	303
132.ijpeg	2	166	261	4	337	256
134.perl	2	141	242	2	96	357
147.vortex	2	208	234	2	171	285
SPECint_rate_base95 (G. Mean)			252			
			SPECint_rate95 (G. Mean)			307

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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For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@spec.org
http://www.spec.org/

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Prepared By: gnana