SPEC CINT95rate Results

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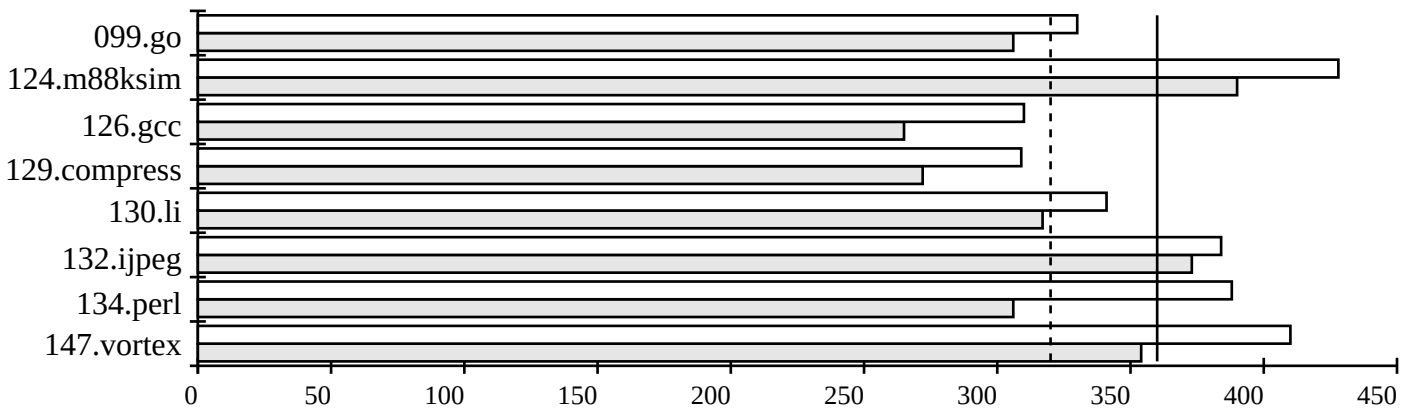
Compaq Computer Corporation AlphaServer ES40 Model 6/667

SPECint_rate95 = 360

SPECint_rate_base95 = 320

SPEC license # 2 | Tested By: Compaq NH | Test Date: Feb-2000 | Hardware Avail: Feb-2000 | Software Avail: Jul-2000



Hardware/Software Configuration for:
AlphaServer ES40 Model 6/667

Hardware

Model Name:	AlphaServer ES40 Model 6/667
CPU:	667 MHz 21264A
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB
Other Cache:	none
Memory:	4GB (4x1GB)
Disk Subsystem:	1x10GB: DS-RZ1DD-VW
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX V4.0F
Compiler:	Compaq C X6.3-018-44A1V protect_headers_setup.sh cc.alt/om 27-Jan-1999
File System:	AdvFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	1	135	306	1	125	330
124.m88ksim	1	43.9	390	1	40	428
126.gcc	1	57.8	265	1	49	310
129.compress	1	59.5	272	1	52	309
130.li	1	54.0	317	1	50	341
132.ijpeg	1	57.9	373	1	56	384
134.perl	1	55.9	306	1	44	388
147.vortex	1	68.7	354	1	59	410
SPECint_rate_base95 (G. Mean)			320			
			SPECint_rate95 (G. Mean)			360

Notes/Tuning Information

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Compiler invocation: cc -std1      Base tuning: -fast -arch ev6 -O4 + GemFB
go:        -g3 -arch ev6 -fast -inline speed -assume whole_program -non_shared +OmFB
m88ksim:   -g3 -arch ev6 -O4 -ifo -unroll 16 -non_shared +GemFB
gcc:       -g1 -arch ev6 -O4 -ifo -xtaso_short -noansi_alias -non_shared +BothFB
compress:  -g3 -arch ev6 -fast -O4 -assume whole_program -non_shared -lsys5 +GemFB
li:        -g1 -arch ev6 -fast -O4 -xtaso_short -speculate all -non_shared -lsys5 +GemFB
ijpeg:     -g3 -arch ev6 -fast -O4 -speculate all -unroll 8 -non_shared -lsys5 +GemFB
perl:      -g3 -arch ev6 -O4 -ifo -non_shared +BothFB
vortex:    -g3 -arch ev6 -fast -O4 -speculate all -non_shared +BothFB

Portability: m88ksim: -DLEHOST; perl: -DI_TIME;  vortex: -D__RISC_64__
GemFB:  PASS1=-prof_gen_noopt -prof_dir /tmp/prof PASS2=-prof_use_feedback    -prof_dir /tmp/prof
OmFB:   PASS1=-prof_gen       -prof_dir /tmp/prof PASS2=-prof_use_om_feedback -prof_dir /tmp/prof
.       fdo_pre1  = rm -f /tmp/prof/*Counts*
BothFB: PASS1=as in GemFB      PASS2=as in GemFB plus -r       fdo_run2  = %command%
.       fdo_pre2  = mv %exename% rr; ld [-taso] -o fb rr -lexc; pixie -pids fb -o %exename%
.       fdo_post2 = ld [-taso] -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs
.            fb.Counts.*; /usr/lib/cmplrs/cc.dtk/om [-taso] -om_split_procedures
.            -om_ireorg_feedback fb -o %binary% rrom; rm -Rf /tmp/prof/*
.       [only gcc uses -taso in BothFB]
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-- Prepared By: --