SPEC CINT95rate Results

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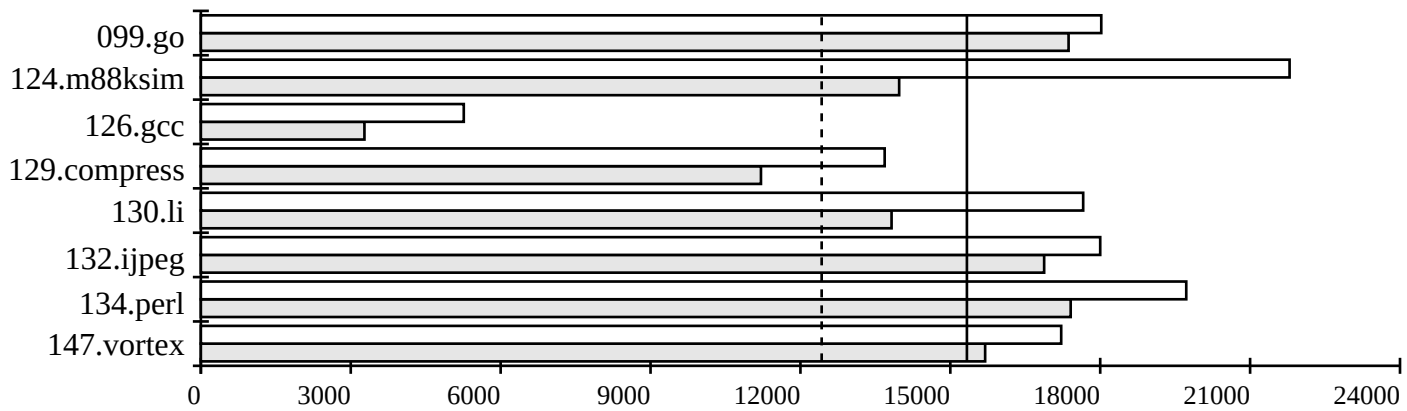
Compaq Computer Corporation
AlphaServer GS140 6/525 Cluster

SPECint_rate95 = 15332

SPECint_rate_base95 = 12425

SPEC license # 2	Tested By: Compaq NH	Test Date: Mar-99	Hardware Avail: Nov-98	Software Avail: Dec-98



Hardware/Software Configuration for:
AlphaServer GS140 6/525 Cluster

Hardware

Model Name:	AlphaServer GS140 6/525
CPU:	525 MHz 21264
FPU:	Integrated
Number of CPU(s):	80, 8 nodes , 10 cpus per node
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB (I+D) per cpu
Other Cache:	None
Memory:	96GB (3x4GB per node)
Disk Subsystem:	14-RZ1D 9GB
Other Hardware:	1 HSZ70/KZPBA Controller Memory Channel

Software

Operating System:	Digital Unix V4.0E (Rev. 1091)
Compiler:	DEC C V6.0-007-4088L protect_headers_setup.sh
File System:	NFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	79	188	17367	79	181	18021
124.m88ksim	79	96.7	13976	79	62	21790
126.gcc	79	369	3274	79	230	5262
129.compress	79	114	11210	79	94	13686
130.li	79	97.7	13824	79	76	17659
132.ijpeg	79	101	16878	79	95	18000
134.perl	79	77.6	17409	79	68	19722
147.vortex	79	122	15697	79	111	17219
SPECint_rate_base95 (G. Mean)			12425			
			SPECint_rate95 (G. Mean)			15332

Notes/Tuning Information

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Compiler: cc.alt -std1      baseline: -O4 -arch ev6 -non_shared +OmFb
go:       -ifo -arch ev6 -g3 -O3 -inline speed -non_shared +OmFb
m88ksim:  -ifo -arch ev6 -g3 -O4 -inline speed -unroll 16 -non_shared +GemFb
gcc:      -ifo -arch ev6 -g1 -O4 -inline speed -xtaso_short -noansi_alias -non_shared  +BothFb
compress: -ifo -arch ev6 -g3 -O4 -fast -assume whole_program -non_shared -lsys5 +GemFb
li:       -ifo -arch ev6 -g1 -O4 -inline speed -xtaso_short -speculate all -non_shared -lsys5 +GemFb
ijpeg:    -ifo -arch ev6 -g3 -O4 -fast -speculate all -non_shared +GemFb
perl:     -ifo -arch ev6 -g3 -O3 -inline speed -non_shared -lsys5 +GemFb
vortex:   -ifo -arch ev6 -g3 -O4 -fast -inline speed -speculate all -non_shared +BothFb
Portability: m88ksim: -DLEHOST   perl: -DI_TIME    vortex: -D__RISC_64__

OmFb:  PASS1 = -prof_gen -prof_dir /tmp/prof    PASS2 = -prof_use_om_feedback -prof_dir /tmp/prof
GemFb: PASS1 = As in OmFb, plus -gen_feedback   PASS2 = -prof_use_feedback    -prof_dir /tmp/prof

BothFb: PASS1 = As in GemFb                     PASS2 = -prof_use_feedback    -prof_dir /tmp/prof -r
.   fdo_pre2  = mv %exename% rr; ld [-taso] -o fb rr -lexc; pixie -pids fb -o %exename%
.   fdo_run2  = %command%
.   fdo_post2 = ld [-taso] -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs fb.Counts.*;
.   /usr/lib/cmplrs/cc.alt/om [-taso] -om_split_procedures -om_ireorg_feedback fb -o %binary% rrom
.   (only gcc uses taso)
remote runs: submit00n=rsh sysname "cd %dir%; %command% && exit 0"
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-- Prepared By: --