SPEC CINT95rate Results

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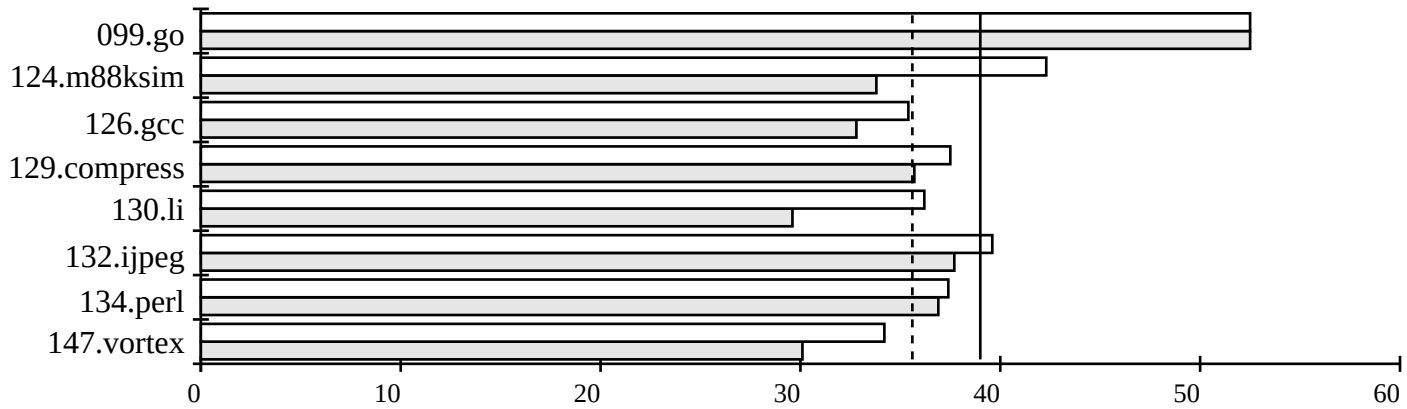
Digital Equipment Corp.
AlphaServer 1000A 4/266

SPECint_rate95 = 39.0

SPECint_rate_base95 = 35.6

SPEC license # 2	Tested By: Digital NH	Test Date: Jan-96	Hardware Avail: Mar-96	Software Avail: Jan-96



Hardware/Software Configuration for:
AlphaServer 1000A 4/266

Hardware

Model Name:	AlphaServer 1000A 4/266
CPU:	266 MHz 21064A
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	16KB(I)+16KB(D) on chip
Secondary Cache:	2MB
Other Cache:	None
Memory:	128MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V3.2D (Rev 41.64)
Compiler:	DEC C V5.0-106/DEC FORTRAN V3.8 KAPF V2.2
File System:	UFS
System State:	Multi User
Kernel Extensions:	

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	1	789	52.5	1	789	52.5
124.m88ksim	1	505	33.8	1	404	42.3
126.gcc	1	466	32.8	1	432	35.4
129.compress	1	453	35.7	1	432	37.5
130.li	1	578	29.6	1	473	36.2
132.ijpeg	1	573	37.7	1	545	39.6
134.perl	1	463	36.9	1	458	37.4
147.vortex	1	808	30.1	1	711	34.2
SPECint_rate_base95 (G. Mean)			35.6			
SPECint_rate95 (G. Mean)						39.0

Notes/Tuning Information

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Compiler invokation: cc -migrate -std1 (DEC C with -std1 for strict ANSI)
Baseline Optimizations: -O4 -ifo -non_shared -om
Portability Flags: 124.m88ksim: -DLEHOST  134.perl: -DI_TIME   147.vortex: -D__RISC_64__

Peak Optimizations: 099.go, 134.perl: -O4 -ifo -non_shared -om   126.gcc & 130.li: same as go, plus feedback
129.compress, & 147.vortex:  -assume trusted_short_alignment -D_INTRINSICS -D_INLINE_INTRINSICS
-D_FASTMATH -float -fp_reorder -ifo -readonly_strings -O4 -non_shared (with feedback)
124.m88ksim: -ifo -O4 -Wf,-switch,speculate -lexc -non_shared -om (with 1 pass gem feedback only)
132.ijpeg:  -assume trusted_short_alignment -D_INTRINSICS -D_INLINE_INTRINSICS -D_FASTMATH -float
-fp_reorder -ifo -readonly_strings -O4 -Wf,-switch,speculate -lexc -non_shared (with feedback)

Feedback stages: PASS1=-gen_feedback -g1
fdo_pre1=mv %binary% %exename%.orig;pixie -pids %exename%.orig -o %exename%
fdo_run1=%command%
fdo_post1=prof -pixie -feedback ../../src/%exename%.fb %exename%.orig %exename%.orig.Addrs %exename%.orig.Counts.*
PASS2=-feedback $(EXENAME).fb -r -ifo [-Wf,-switch,speculate -lexc]
fdo_pre2=mv %exename% %exename%.rr;ld -o %exename%fb %exename%.rr [-lexc];pixie -pids %exename%fb -o %exename%
fdo_run2=%command%
fdo_post2=ld -om %exename%.rr -o %exename%.rrom [-lexc];prof -pixie -merge %exename%fb.Counts %exename%fb %exename%fb.Addrs
%exename%fb.Counts.*;/usr/lib/cmplrs/cc/om -om_ireorg_feedback %exename%fb -o %binary% %exename%.rrom
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-- Prepared By: --