SPEC CINT95rate Results

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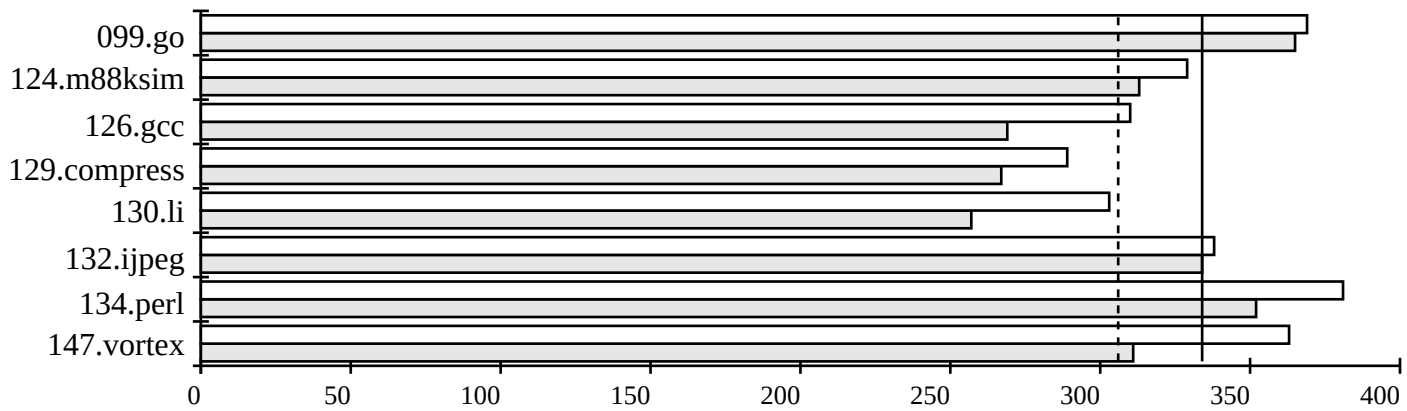
Digital Equipment Corp.
AlphaServer 4000 5/600

SPECint_rate95 = 334

SPECint_rate_base95 = 306

SPEC license # 2	Tested By: Digital NH	Test Date: Oct-97	Hardware Avail: Apr-98	Software Avail: Dec-97



Hardware/Software Configuration for:
AlphaServer 4000 5/600

Hardware

Model Name:	AlphaServer 4000 5/600
CPU:	600 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	8MB
Memory:	2GB
Disk Subsystem:	1x4GB, 1x2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0D-11
Compiler:	DEC C T5.7-564-3678F protect_headers_setup.sh
File System:	UFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	2	227	365	2	224	369
124.m88ksim	2	109	313	2	104	329
126.gcc	2	114	269	2	99	310
129.compress	2	121	267	2	112	289
130.li	2	133	257	2	113	303
132.ijpeg	2	129	334	2	128	338
134.perl	2	97.2	352	2	90	381
147.vortex	2	156	311	2	134	363
SPECint_rate_base95 (G. Mean)			306			
		SPECint_rate95 (G. Mean)				334

Notes/Tuning Information

```
Compiler: cc.alt -std1    Base: -O4 -arch ev56 -non_shared with om feedback
Portability:  m88ksim: -DLEHOST  perl: -DI_TIME  vortex: -D__RISC_64__

Peak: all: -non_shared -ifo -inline speed      go: -O3, om fb
m88ksim:  -O4 -speculate all, 2-pass fb       gcc: -O4 -arch ev56 -xtaso_short, 2-pass fb
perl:     -O4 -arch ev56 -lsys5, om fb     vortex: -O4 -fast -speculate all, 2-pass fb
compress: -O4 -arch ev56 -assume whole_program -lsys5, om fb
li:       -O4 -xtaso_short -speculate all -lsys5, 2-pass fb
ijpeg:    -O4 -fast -unsigned -arch ev56 -speculate all -lsys5, 2-pass fb

Om feedback: PASS1 = -prof_gen -prof_dir /tmp/prof
PASS2 =  -prof_use_om_feedback -prof_dir /tmp/prof

2-pass fb: PASS1 above w/ -gen_feedback; PASS2= -prof_use_feedback -prof_dir /tmp/prof -r
fdo_pre2  = mv %exename% rr; ld -o fb rr -lexc; pixie -pids fb -o %exename%
fdo_run2  = %command%
fdo_post2 = ld -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs fb.Counts.*;
/usr/lib/cmplrs/cc.alt/om -om_split_procedures -om_ireorg_feedback fb -o %binary% rrom
gcc and li add -taso to feedback ld commands.
```

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