SPEC CINT95 Results

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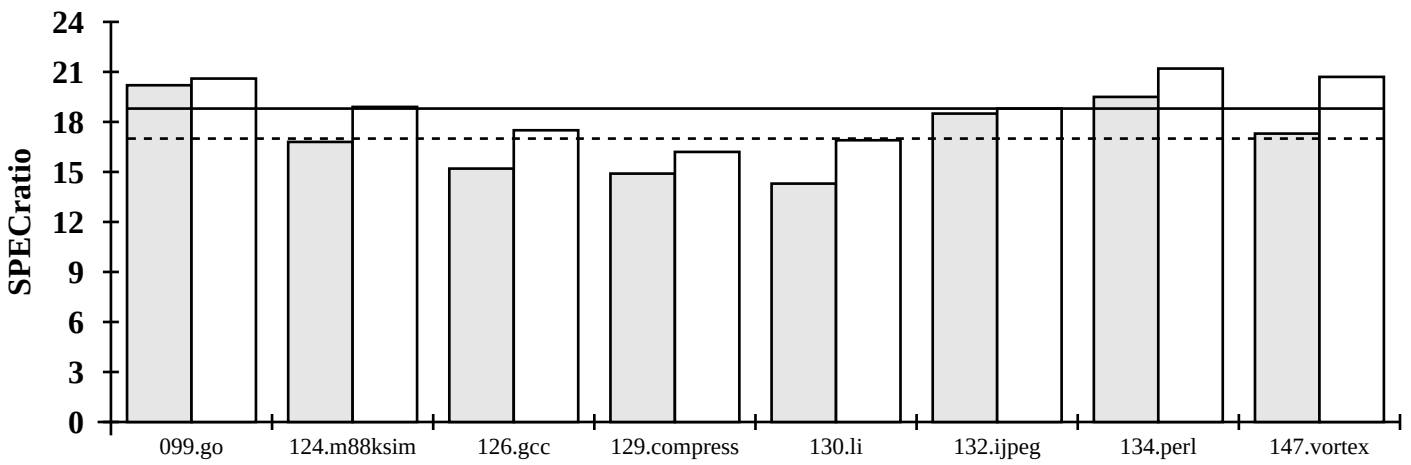
Digital Equipment Corp.
AlphaServer 4000 5/600

SPECint95 = 18.8

SPECint_base95 = 17.0

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):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	8MB
Memory:	256MB
Disk Subsystem:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0D-2
Compiler:	DEC C T5.7-564-3678F protect_headers_setup.sh
File System:	UFS
System State:	Multi User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
099.go	4600	228	20.2	223	20.6
124.m88ksim	1900	113	16.8	101	18.9
126.gcc	1700	112	15.2	97	17.5
129.compress	1800	121	14.9	111	16.2
130.li	1900	133	14.3	112	16.9
132.ijpeg	2400	129	18.5	128	18.8
134.perl	1900	97.3	19.5	89	21.2
147.vortex	2700	156	17.3	130	20.7
SPECint_base95 (G. Mean)			17.0		
		SPECint95 (G. Mean)			18.8

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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-- Prepared By: --