SPEC CINT95rate Results

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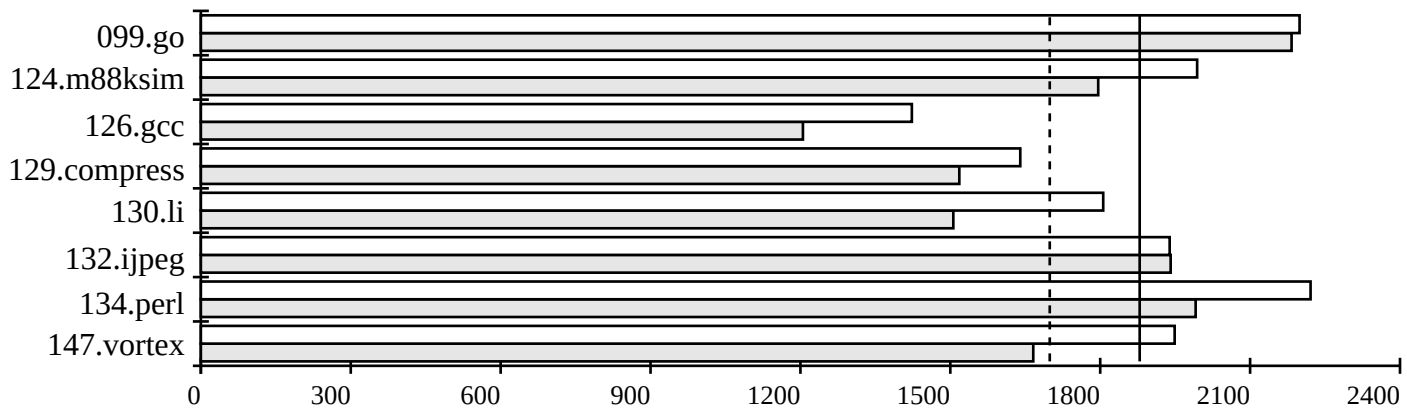
Digital Equipment Corp.
AlphaServer 8400 5/625

SPECint_rate95 = 1879

SPECint_rate_base95 = 1699

SPEC license # 2	Tested By: Digital NH	Test Date: Sep-97	Hardware Avail: Nov-97	Software Avail: Dec-97



SPECrate

Hardware/Software Configuration for:
AlphaServer 8400 5/625

Hardware

Model Name:	AlphaServer 8400 5/625
CPU:	612 MHz 21164
FPU:	Integrated
Number of CPU(s):	12
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB on chip
Other Cache:	4MB
Memory:	8GB (2x4GB)
Disk Subsystem:	4x4GB
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	12	228	2183	12	226	2199
124.m88ksim	12	114	1796	12	103	1994
126.gcc	12	152	1205	12	129	1423
129.compress	12	128	1518	12	119	1640
130.li	12	136	1506	12	114	1806
132.ijpeg	12	134	1941	12	134	1939
134.perl	12	103	1991	12	92	2221
147.vortex	12	175	1666	12	150	1949
SPECint_rate_base95 (G. Mean)			1699			
			SPECint_rate95 (G. Mean)			1879

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: --