SPEC CINT95rate Results

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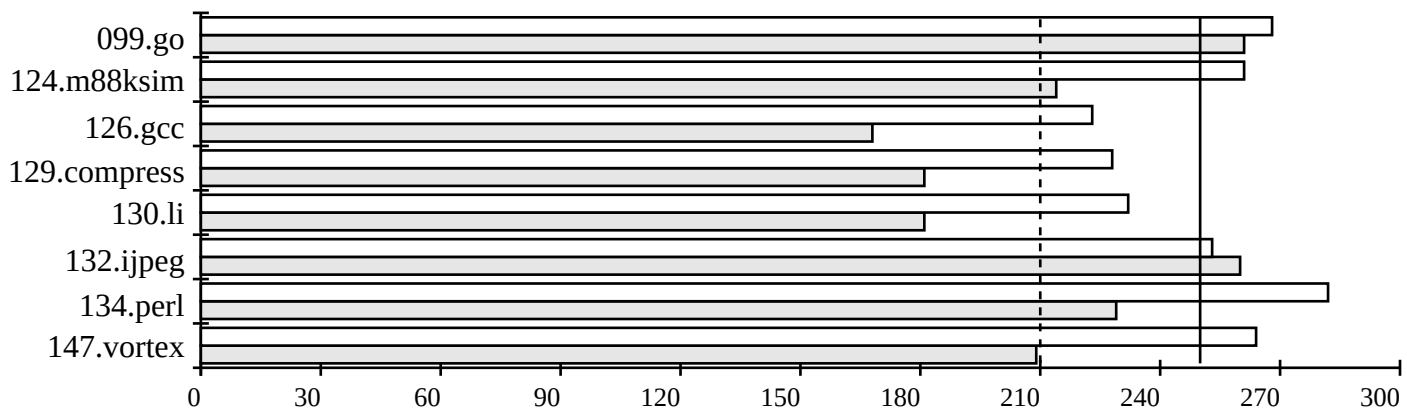
Digital Equipment Corp.
AlphaServer 4000 5/466

SPECint_rate95 = 250

SPECint_rate_base95 = 210

SPEC license # 2	Tested By: Digital NH	Test Date: Feb-97	Hardware Avail: Feb-97	Software Avail: Dec-96



Hardware/Software Configuration for:
AlphaServer 4000 5/466

Hardware

Model Name:	AlphaServer 4000 5/466
CPU:	466 MHz 21164
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	256MB
Disk Subsystem:	1 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0B
Compiler:	DEC C V5.4-045 cc.alt/protect_headers.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	318	261	2	309	268
124.m88ksim	2	160	214	2	131	261
126.gcc	2	182	168	2	137	223
129.compress	2	179	181	2	142	228
130.li	2	189	181	2	148	232
132.ijpeg	2	166	260	2	171	253
134.perl	2	149	229	2	121	282
147.vortex	2	232	209	2	184	264
SPECint_rate_base95 (G. Mean)			210			
			SPECint_rate95 (G. Mean)			250

Notes/Tuning Information

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

Peak flags: all use -ifo -non_shared.  Other flags are:
go: -g3 -O3 -inline speed EXTRA_LDFLAGS -om    m88ksim: -g3 -O4 -speculate all -inline speed with feedback
gcc: -g1 -O4 -inline speed -arch ev56 -xtaso_short -taso with feedback    compress: -g3 -O4 -tune ev5 -32data
-inline speed -arch ev56 -assume whole_program -om -lsys5    li: -g1 -O4 -inline speed -xtaso_short -speculate
all -lsys5 -taso with feedback    ijpeg: -g3 -O4 -fast -unsigned -inline speed -arch ev56 -speculate all -lsys5
with feedback    perl: -g3 -O4 -inline speed -arch ev56 -lsys5 with feedback pass 2 only    vortex: -g3 -O4
-fast -inline speed -speculate all with feedback

feedback: PASS1=-gen_feedback
fdo_pre1=mv %binary% %exename%.orig; pixie -pids %exename%.orig -o %exename%
fdo_post1=prof -pixie -feedback ../../src/%exename%.fb %exename%.orig %exename%.orig.Addrs %exename%.orig.Counts.*
PASS2=-feedback $(EXENAME).fb -r
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.alt/om -om_ireorg_feedback %exename%fb -o %binary% %exename%.rrom
gcc and li add -taso to feedback commands om and ld
```

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