SPEC CINT95rate Results

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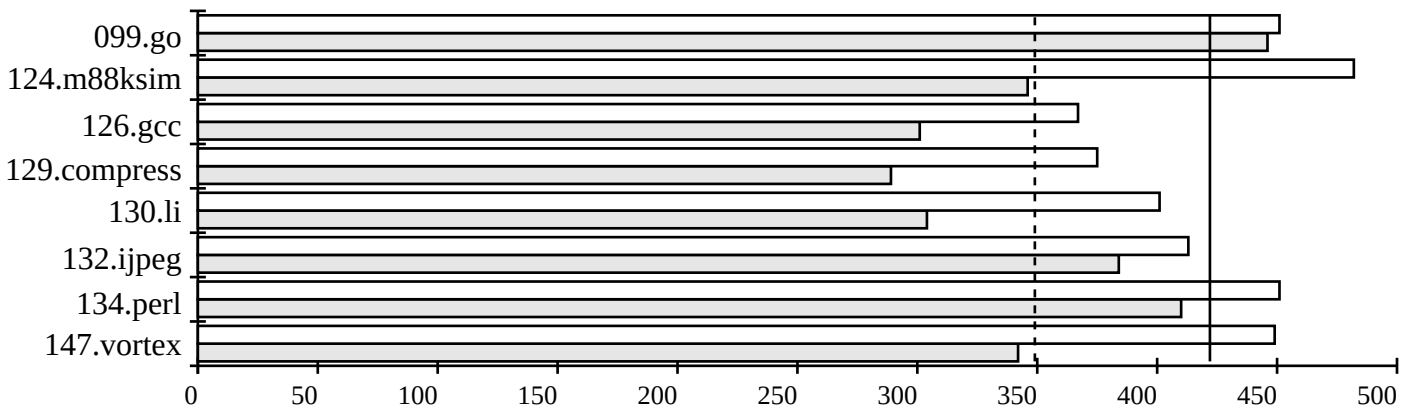
Digital Equipment Corp.
AlphaServer 4100 5/400

SPECint_rate95 = 422

SPECint_rate_base95 = 349

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



Hardware/Software Configuration for:
AlphaServer 4100 5/400

Hardware

Model Name:	AlphaServer 4100 5/400
CPU:	400 MHz 21164
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	4MB
Memory:	384MB
Disk Subsystem:	2 x 2GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4.0A-2
Compiler:	DEC C X5.3-148-334R 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	4	371	446	4	367	451
124.m88ksim	4	198	346	4	142	482
126.gcc	4	203	301	4	167	367
129.compress	4	225	289	4	173	375
130.li	4	225	304	4	171	401
132.ijpeg	4	225	384	4	209	413
134.perl	4	167	410	4	152	451
147.vortex	4	284	342	4	217	449
SPECint_rate_base95 (G. Mean)			349			
			SPECint_rate95 (G. Mean)			422

Notes/Tuning Information

```
Compiler: cc.alt -migrate -std1   Base optimizations: -O5 -arch ev56 -non_shared -om
Portability flags: m88ksim: -DLEHOST   perl: -DI_TIME   vortex: -D__RISC_64__

Peak flags: all use -ifo -non_shared    go: -O4 -inline speed -om    m88ksim: -O5 -speculate all -inline speed
with feedback    gcc: -O5 -inline speed -arch ev56 -xtaso_short with feedback    compress: -O5 -tune ev5 -32data
-Wf,-noptrs_to_globals -arch ev56 -inline speed -om -lsys5    li: -O5 -inline speed -xtaso_short -speculate all
-lsys5 with feedback    ijpeg: -O5 -fast -unsigned -inline speed -arch ev56 -speculate all -lsys5 with feedback
perl: -O5 -inline speed -arch ev56 -lsys5 with feedback pass-2 only    vortex: -O5 -fast -inline speed with feedback

feedback: 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
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
gcc and li add -taso to feedback commands om and ld
```

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