SPEC CINT95 Results

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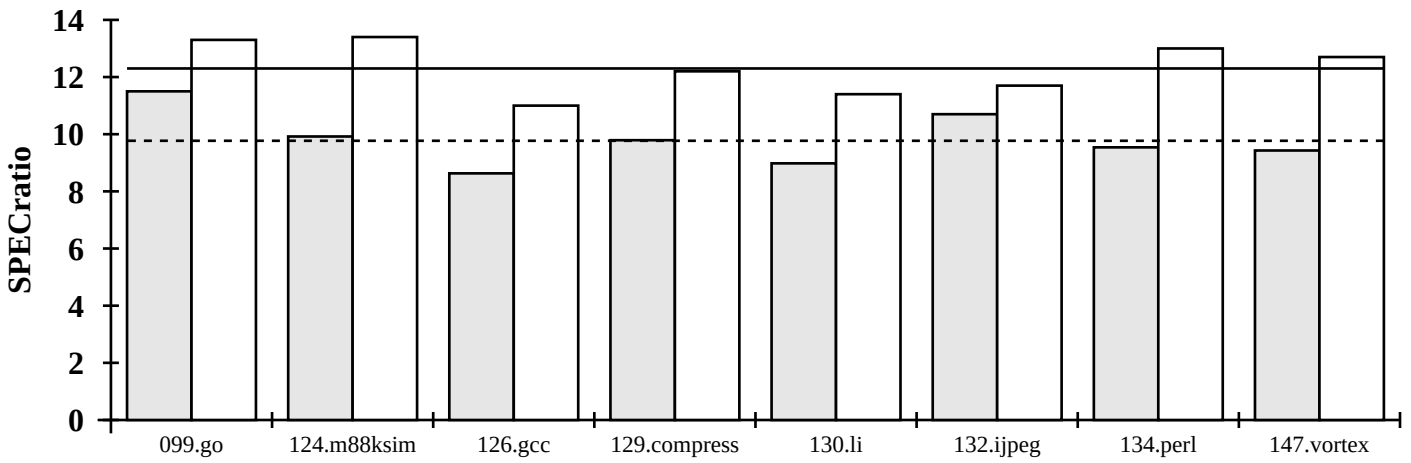
Digital Equipment Corp.
AlphaStation 500/400

SPECint95 = 12.3

SPECint_base95 = 9.77

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



Hardware/Software Configuration for:
AlphaStation 500/400

Hardware

Model Name:	AlphaStation 500/400
CPU:	400 MHz 21164
FPU:	Integrated
Number of CPU(s):	1
Primary Cache:	8KB(I)+8KB(D) on chip
Secondary Cache:	96KB
Other Cache:	2MB
Memory:	128MB
Disk Subsystem:	1 x 2GB 1x 1GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX T4-2
Compiler:	DEC C X5.3-148-334R/DEC C++ V5.1 /usr/lib/cmplrs/cxx/protect_system_headers.sh
File System:	UFS
System State:	Multi User; vm-page-free-min 5760

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
099.go	4600	400	11.5	346	13.3
124.m88ksim	1900	191	9.92	141	13.4
126.gcc	1700	197	8.63	155	11.0
129.compress	1800	184	9.79	148	12.2
130.li	1900	212	8.98	166	11.4
132.ijpeg	2400	225	10.7	205	11.7
134.perl	1900	199	9.54	147	13.0
147.vortex	2700	286	9.43	212	12.7
SPECint_base95 (G. Mean)			9.77		
		SPECint95 (G. Mean)			12.3

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
-speculate all 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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-- Prepared By: --