SPEC CINT95rate Results

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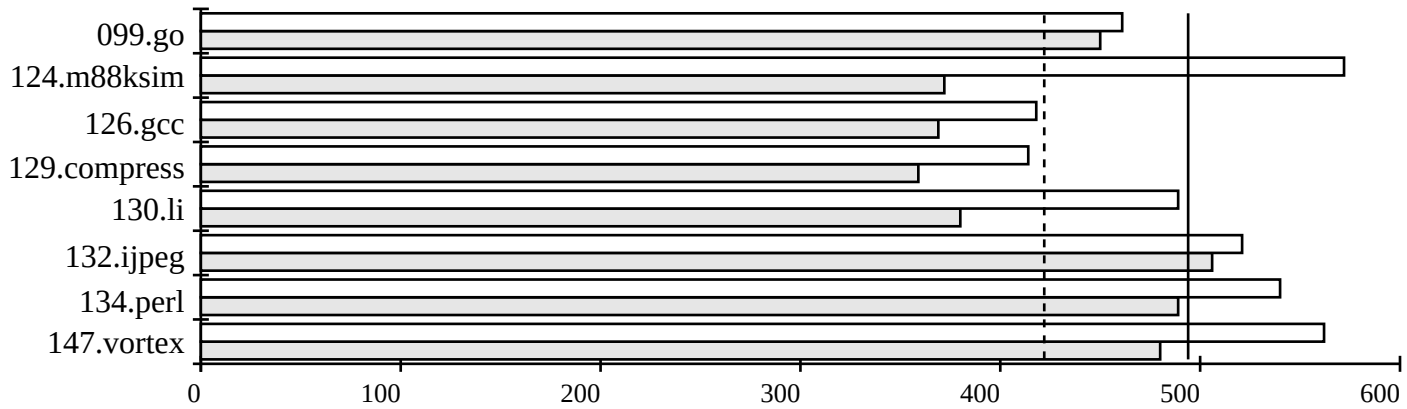
Compaq Computer Corporation
Compaq AlphaServer DS20

SPECint_rate95 = 494

SPECint_rate_base95 = 422

SPEC license # 2	Tested By: Digital NH	Test Date: Dec-98	Hardware Avail: Dec-98	Software Avail: Jan-99



SPECrate

Hardware/Software Configuration for:
Compaq AlphaServer DS20

Hardware

Model Name:	Compaq AlphaServer DS20
CPU:	500 MHz 21264
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB
Other Cache:	none
Memory:	512MB (16x32MB)
Disk Subsystem:	3x4GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX V4.0E
Compiler:	DEC C V6.0-007-4088L 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	2	184	450	2	180	461
124.m88ksim	2	92.0	372	2	60	572
126.gcc	2	83.0	369	2	73	418
129.compress	2	90.3	359	2	78	414
130.li	2	90.1	380	2	70	489
132.ijpeg	2	85.3	506	2	83	521
134.perl	2	69.9	489	2	63	540
147.vortex	2	101	480	2	86	562
SPECint_rate_base95 (G. Mean)			422			
			SPECint_rate95 (G. Mean)			494

Notes/Tuning Information

```
Compiler: cc.alt -std1      baseline: -O4 -arch ev6 -non_shared +OmFb
go:       -ifo -arch ev6 -g3 -O3 -inline speed -non_shared +OmFb
m88ksim:  -ifo -arch ev6 -g3 -O4 -inline speed -unroll 16 -non_shared +GemFb
gcc:      -ifo -arch ev6 -g1 -O4 -inline speed -xtaso_short -noansi_alias -non_shared  +BothFb
compress: -ifo -arch ev6 -g3 -O4 -fast -assume whole_program -non_shared -lsys5 +GemFb
li:       -ifo -arch ev6 -g1 -O4 -inline speed -xtaso_short -speculate all -non_shared -lsys5 +GemFb
ijpeg:    -ifo -arch ev6 -g3 -O4 -fast -speculate all -non_shared +GemFb
perl:     -ifo -arch ev6 -g3 -O3 -inline speed -non_shared -lsys5 +GemFb
vortex:   -ifo -arch ev6 -g3 -O4 -fast -inline speed -speculate all -non_shared +BothFb
Portability: m88ksim: -DLEHOST   perl: -DI_TIME    vortex: -D__RISC_64__

OmFb:  PASS1 = -prof_gen -prof_dir /tmp/prof    PASS2 = -prof_use_om_feedback -prof_dir /tmp/prof
GemFb: PASS1 = As in OmFb, plus -gen_feedback   PASS2 = -prof_use_feedback    -prof_dir /tmp/prof

BothFb: PASS1 = As in GemFb                     PASS2 = -prof_use_feedback    -prof_dir /tmp/prof -r
.   fdo_pre2  = mv %exename% rr; ld [-taso] -o fb rr -lexc; pixie -pids fb -o %exename%
.   fdo_run2  = %command%
.   fdo_post2 = ld [-taso] -om rr -o rrom -lexc; prof -pixie -merge fb.Counts fb fb.Addrs fb.Counts.*;
.   /usr/lib/cmplrs/cc.alt/om [-taso] -om_split_procedures -om_ireorg_feedback fb -o %binary% rrom
.   (only gcc uses taso)
```

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