SPEC CINT95rate Results

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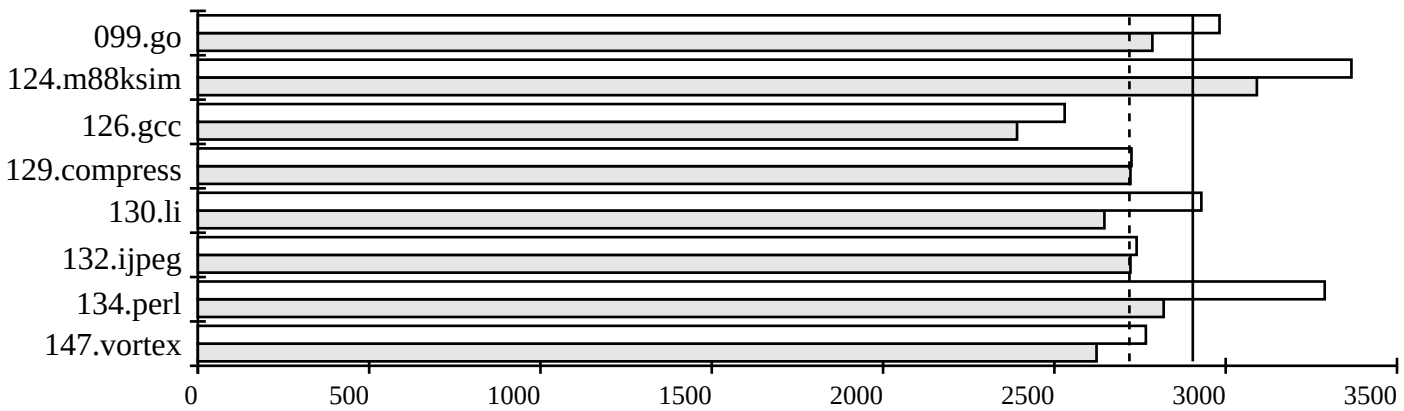
Siemens AG
RM600 Model E80

SPECint_rate95 = 2904

SPECint_rate_base95 = 2719

SPEC license # 22	Tested By: Siemens, Germany	Test Date: May-99	Hardware Avail: Jun-99	Software Avail: Jun-99



Hardware/Software Configuration for:
RM600 Model E80

Hardware

Model Name:	RM600-E80
CPU:	285 MHz R12000 rev. 2.3
FPU:	Integrated
Number of CPU(s):	20
Primary Cache:	32KBI+32KBD on chip
Secondary Cache:	16MB(I+D) off chip per CPU
Other Cache:	None
Memory:	8192MB
Disk Subsystem:	36 x 4GB (striped)
Other Hardware:	--

Software

Operating System:	Reliant UNIX 5.45 A 00
Compiler:	CDS++ V 2.0 A 00
File System:	VxFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	20	297	2786	20	278	2982
124.m88ksim	20	111	3091	20	102	3367
126.gcc	20	128	2391	20	121	2530
129.compress	20	119	2722	20	119	2725
130.li	20	129	2646	20	117	2929
132.ijpeg	20	159	2722	20	158	2740
134.perl	20	121	2819	20	104	3289
147.vortex	20	185	2623	20	176	2767
SPECint_rate_base95 (G. Mean)			2719			
SPECint_rate95 (G. Mean)						2904

Notes/Tuning Information

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Baseline:
PASS1 = -qfeedback; PASS2 = [empty]; OPTIMIZE = -FX4 -FG44 -dn
Peak:
099.go: -FG1799 -Floopunroll,8 -Funrolllimit,2000 -Finline_limit,200
124.m88ksim: -FG4000 -Wo,-spliteдges,0 -F inline_limit,1035
126.gcc: -FG44 -WG,-boc,0.38,-only_clone_recursion,-recursion_depth,1,-clone_expansion,1.1
-Wo,-recursive_calls -Wb,-prefetch,512,400 -F inline_limit,1035
129.compress: -FG44 -Funrolllimit,1000
130.li: -FG4000 -Funrolllimit,20 -Wn,-boc,0.35,-inline_limit,11,-recursion_depth,3,
-Wn,-recursion_limit,400,-clone_expansion,1.35,-only_clone_recursion -Fafep,7
132.ijpeg: -FG44 -Fno_const_in_reg -Funrolllimit,850  -Wb,-prefetch,100,400 -Kr4000
134.perl: -FG82 -KOlimit:5000 -Funrolllimit,520 -Wo,-recursive_calls -WG,-boc,0.26 -Wg,-recursion_limit,5700
-Wn,-recursion_limit,1000000,-recursion_depth,1,-only_clone_recursion -Wc,-xjp_mh_opt,1,5 -Fno_positioning
147.vortex: -FG44 -Funrolllimit,1270 -Wb,-br_likely_cntl,100,0 -Wo,-strictIEEE -Fcost_benefit,2.76

1-pass feedback for 099, 124, 129, 132, 147:
PASS1 = -qfeedback -FX4
PASS2 = -FX4 , plus: see above
2-pass feedback for 126, 130, 134:
PASS1 = -qfeedback -FX4
PASS2 = -qfeeedback2 -FX4 , plus: see above
fdo_run1 = %command% ; fdo_run2 = %command%
fdo_post2 = ksh -c "cd %benchtop%/src; ‘grep ’/opt/CDS++/bin/cc’ %benchtop%/src/make2.out | tail -1 | sed -e ’s/-qfeedback2/-Fuse_fb2/’‘"
i.e. use all flags of PASS2 except that "-qfeedback2" is replaced by "-Fuse_fb2"
For Portability: 134.perl: -DI_TIME -DI_SYS_TIME
```

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-- Prepared By: --