SPEC CINT95rate Results

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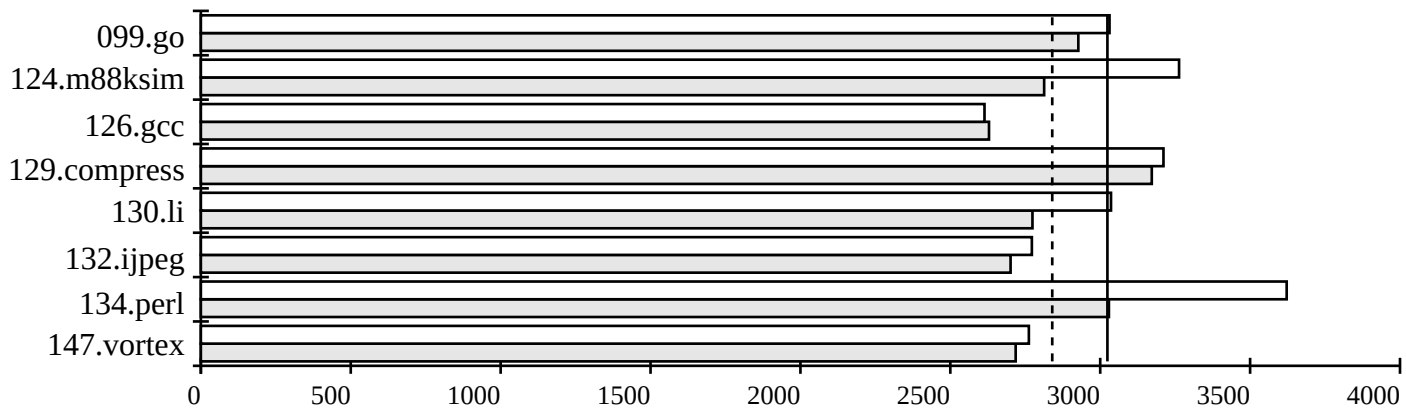
Siemens Nixdorf Informationssysteme RM600 Model E60

SPECint_rate95 =	3024
SPECint_rate_base95 =	2840

SPEC license # 22	Tested By: SNI, Paderborn / Germany	Test Date: Dec-97	Hardware Avail: Apr-98	Software Avail: Jan-98



Hardware/Software Configuration for:
RM600 Model E60

Hardware

Model Name:	RM600-E60
CPU:	250 MHz R10000
FPU:	Integrated
Number of CPU(s):	24
Primary Cache:	32KBI+32KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	4096MB
Disk Subsystem:	31 x 9GB (striped)
Other Hardware:	None

Software

Operating System:	Reliant UNIX 5.44 A 00
Compiler:	pyrC 6.0A00
File System:	VxFS
System State:	Multi user, no extra processes

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
099.go	24	339	2927	24	328	3031
124.m88ksim	24	146	2813	24	126	3263
126.gcc	24	140	2629	24	140	2614
129.compress	24	123	3172	24	121	3211
130.li	24	148	2774	24	135	3036
132.ijpeg	24	192	2701	24	187	2772
134.perl	24	136	3029	24	113	3622
147.vortex	24	215	2718	24	211	2762
SPECint_rate_base95 (G. Mean)			2840			
			SPECint_rate95 (G. Mean)			3024

Notes/Tuning Information

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Baseline:
PASS1 = -qfeedback; PASS2 = [empty]; OPTIMIZE = -WM,-Omips4 -WM,-G44 -dn
Peak:
099.go: -WM,-G1799 -Wo,-loopunroll,8 -Wo,-unrolllimit,2000 -Wg,-inline_limit,200
124.m88ksim: -WM,-G4000 -KOlimit:3500 -Wg,-inline_limit,1000  -Wo,-splitedges,0 -WM,-pre_opt
-Wo,-loopunroll,32,-unrolllimit,350 -Wb,-br_likely_cntl,60,200 -WG,-space_time:0.5
126.gcc: -WM,-G44 -WG,-boc,0.38,-only_clone_recursion,-recursion_depth,1,-clone_expansion,1.1 -Wb,-prefetch,512,0 -Wo,-recursive_calls
129.compress: -WM,-G44 -Wb,-no_self_copy
130.li: -WM,-G4000 -Wo,-unrolllimit,1000 -WG,-boc,0.35,-inline_limit,1500,-recursion_depth,3,-recursion_limit,400
-WG,-clone_expansion,1.25,-only_clone_recursion -Wg,-dont_prune_zero_edges
132.ijpeg: -WM,-G44 -Wo,-no_const_in_reg -Wo,-unrolllimit:800 -WG,-space_time:3.4 -Wb,-prefetch,100,0
134.perl: -WM,-G32 -KOlimit:5000 -Wo,-unrolllimit,500 -Wo,-recursive_calls -WG,-boc,0.25 -Wg,-recursion_limit,4700
-Wn,-recursion_limit,1000000,-recursion_depth,1,-only_clone_recursion -Wc,-xjp_mh_opt,1,30 -WM,-no_positioning
147.vortex: -WM,-G46 -Wo,-unrolllimit,1000 -Wg,-boc,0.91,-inline_limit,300

1-pass feedback for 099, 124, 129, 132, 147:
PASS1 = -qfeedback -WM,-Omips4 -dn
PASS2 = -WM,-Omips4 -dn, plus: see above

2-pass feedback for 126, 130, 134:
PASS1 = -qfeedback -WM,-Omips4 -dn
PASS2 = -qfeedback2 -WM,-Omips4 -dn, plus: see above
fdo_run1 = %command%
fdo_run2 = %command%
fdo_post2 = ksh -c "cd %benchtop%/src; 'grep '/usr/opt/pyrC/bin/cc' %benchtop%/src/make2.out | tail -1 | sed -e 's/-qfeedback2/-WM,-use_fb2/''"
i.e. use all flags of PASS2 except that "-qfeedback2" is replaced by "-WM,-use_fb2"

For Portability: 134.perl: -DI_TIME -DI_SYS_TIME
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