SPEC CINT95rate Results

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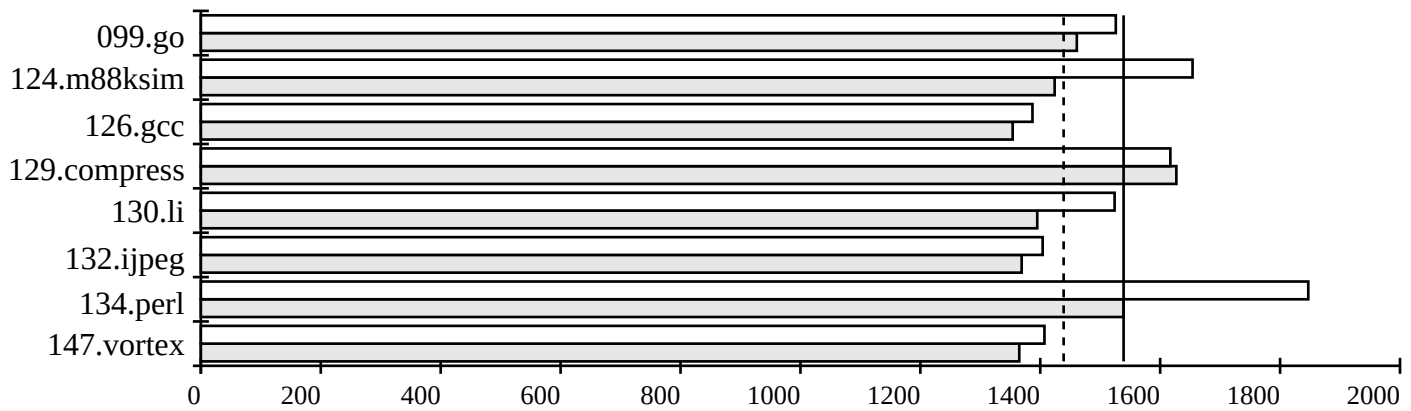
Siemens Nixdorf Informationssysteme RM600 Model E60

SPECint_rate95 =	1539
SPECint_rate_base95 =	1439

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):	12
Primary Cache:	32KBI+32KBD on chip
Secondary Cache:	8MB(I+D) off chip per CPU
Other Cache:	None
Memory:	4096MB
Disk Subsystem:	24 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	12	340	1461	12	326	1526
124.m88ksim	12	144	1424	12	124	1654
126.gcc	12	136	1354	12	132	1387
129.compress	12	119	1627	12	120	1617
130.li	12	147	1395	12	135	1524
132.ijpeg	12	189	1369	12	185	1404
134.perl	12	133	1539	12	111	1847
147.vortex	12	214	1365	12	207	1407
SPECint_rate_base95 (G. Mean)			1439			
			SPECint_rate95 (G. Mean)			1539

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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