SPEC CINT95rate Results

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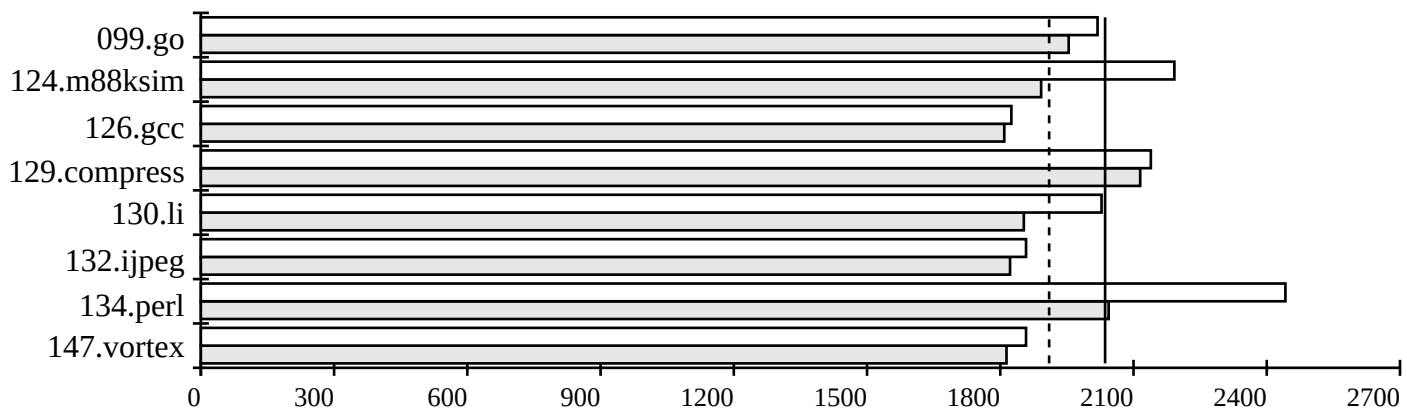
Siemens Nixdorf Informationssysteme RM600 Model E60

SPECint_rate95 = 2036

SPECint_rate_base95 = 1910

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):	16
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	16	339	1954	16	328	2019
124.m88ksim	16	145	1892	16	125	2192
126.gcc	16	135	1809	16	134	1825
129.compress	16	123	2115	16	121	2139
130.li	16	148	1853	16	135	2028
132.ijpeg	16	190	1822	16	186	1858
134.perl	16	134	2044	16	112	2442
147.vortex	16	214	1814	16	209	1858
SPECint_rate_base95 (G. Mean)			1910			
			SPECint_rate95 (G. Mean)			2036

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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