

CINT2000 Result Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company hp AlphaServer GS80 68/1224 SPECint_rate2000 = SPECint_rate_base2000 =

Aug-2002 Software Avail:

NC NC

Nov-2001

 SPEC license #:
 2 Tested by:
 HPQ - NH Test date:
 Jul-2002 Hardware Avail:

 SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the submitter has reported that the

3 month availability requirement in the SPEC CPU2000 run

rules will not be met due to a change in availablility date for the operating system.

5 4 1	3 2 1	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio		
		164.gzip	1	NC	NC	1	NC	NC		
		175.vpr	1	NC	NC	1	NC	NC		
		176.gcc	1	NC	NC	1	NC	NC		
		181.mcf	1	NC	NC	1	NC	NC		
		186.crafty	1	NC	NC	1	NC	NC		
		197.parser	1	NC	NC	1	NC	NC		
		252.eon	1	NC	NC	1	NC	NC		
		253.perlbmk	1	NC	NC	1	NC	NC		
		254.gap	1	NC	NC	1	NC	NC		
		255.vortex	1	NC	NC	1	NC	NC		
		256.bzip2	1	NC	NC	1	NC	NC		
		300.twolf	1	NC	NC	1	NC	NC		
CPU: CPU MHz: FPU: CPU(s) enabled: CPU(s) orderable: Parallel: Primary Cache: Secondary Cache: L3 Cache: Other Cache: Memory: Disk Subsystem: Other Hardware:	Operating Sys Compiler: File System: System State:	Software Tru64 UNIX V5.1B Compaq C V6.4-215-46B7O Program Analysis Tools V2.0 Spike V5.2 DTK (1.471.2.2 46B5P) Compaq C++ V6.3-010-46B2F ufs Multi-user								
Notes/Tuning Information Baseline C : cc -arch ev6 -fast +CFB ONESTEP										

C++: cxx -arch ev6 -O2 ONESTEP Peak: All but 252.eon: cc -g3 -arch ev6 ONESTEP 164.gzip: -fast -O4 -non_shared +CFB 175.vpr: -fast -O4 -assume restricted_pointers +CFB 176.gcc: -fast -O4 -xtaso_short -all -ldensemalloc -none +CFB +IFB

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HPO - NH Test date

Notes/Tuning Information (Continued)

181.mcf:	-fast -xtaso_short +CFB +IFB +PFB				
186.crafty:	same as base				
	-fast -04 -xtaso_short -non_shared +CFB				
252.eon:	cxx -arch ev6 -02 -all -ldensemalloc -none				
253.perlbmk:	-fast -non_shared +CFB +IFB				
	-fast -04 -non_shared +CFB +IFB +PFB				
255.vortex:	-fast -non_shared +CFB +IFB				
256.bzip2:	-fast -04 -non_shared +CFB				
300.twolf:	-fast -04				
-ldensemalloc -non_shared +CFB +IFB					

Most benchmarks are built using one or more types of profile-driven feedback. The types used are designated by abbreviations in the notes:

+CFB: Code generation is optimized by the compiler, using feedback from a training run. These commands are done before the first compile (in phase "fdo_pre0"):

mkdir /tmp/pp
rm -f /tmp/pp/\${baseexe}*

and these flags are added to the first and second compiles:

PASS1_CFLAGS = -prof_gen_noopt -prof_dir /tmp/pp
PASS2_CFLAGS = -prof_use -prof_dir /tmp/pp

(Peak builds use /tmp/pp above; base builds use /tmp/pb.)

+IFB: Icache usage is improved by the post-link-time optimizer Spike, using feedback from a training run. These commands are used (in phase "fdo_postN"):

mv \${baseexe} oldexe
spike oldexe -feedback oldexe -o \${baseexe}

+PFB: Prefetches are improved by the post-link-time optimizer Spike, using feedback from a training run. These commands are used (in phase "fdo_post_makeN"):

rm -f *Counts*
mv \${baseexe} oldexe
pixie -stats dstride oldexe 1>pixie.out 2>pixie.err
mv oldexe.pixie \${baseexe}

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Notes/Tuning Information (Continued)

A training run is carried out (in phase "fdo_runN"), and then this command (in phase "fdo_postN"):

spike oldexe -fb oldexe -stride_prefetch -o \${baseexe}

When Spike is used for both Icache and Prefetch improvements, only one spike command is actually issued, with the Icache options followed by the Prefetch options.

vm:

vm_bigpg_enabled = 1
vm_bigpg_thresh = 16
vm_swap_eager = 0

proc:

max_per_proc_address_space = 0x4000000000 max_per_proc_data_size = 0x4000000000 max_per_proc_stack_size = 0x40000000000 max_proc_per_user = 2048 max_threads_per_user = 0 maxusers = 16384 per_proc_address_space = 0x40000000000 per_proc_data_size = 0x40000000000 per_proc_stack_size = 0x40000000000

System is single QBB (4-cpu) with only 1 cpu enabled at console

Submitted_by: "Beer, Chris" <Chris.Beer@hp.com> Submitted: Thu Aug 1 16:15:29 2002 Submission: cpu2000-20020801-01535.sub

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