

SPEC license #:

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Hewlett-Packard Company hp AlphaServer GS80 68/1224

SPECint2000 = SPECint_base2000 =

Aug-2002 Software Avail

Jul-2002 Hardware Avail:

NC NC

Nov-2001

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 availability date for the operating system.

HPQ - NH Test date

164.gzip 175.vpr 176.gcc	1400	NC	NC				I
			nc	NC	NC		
76 000	1400	NC	NC	NC	NC		
.70.gcc	1100	NC	NC	NC	NC		
81.mcf	1800	NC	NC	NC	NC		
86.crafty	1000	NC	NC	NC	NC		
97.parser	1800	NC	NC	NC	NC		
252.eon	1300	NC	NC	NC	NC		
253.perlbmk	1800	NC	NC	NC	NC		
254.gap	1100	NC	NC	NC	NC		
255.vortex	1900	NC	NC	NC	NC		
256.bzip2	1500	NC	NC	NC	NC		
300.twolf	3000	NC	NC	NC	NC		
HardwareCPU:Alpha 21264CCPU MHz:1224FPU:IntegratedCPU(s) enabled:1 core, 1 chip, 1 core/chipCPU(s) orderable:1 to 8Parallel:NoPrimary Cache:64KB(I)+64KB(D) on chipSecondary Cache:16MB off chip per CPUL3 Cache:NoneOther Cache:NoneDisk Subsystem:9GB Hard DriveOther Hardware:None						Operating System: Compiler:SoftwareDystem: Compiler:Tru64 UNIX V5.1B Compaq C V6.4-215-46B7O Program Analysis Tools V2.0 Spike V5.2 DTK (1.471.2.2 46) Compaq C++ V6.3-010-46B2FFile System: 	

Peak: All but 252.eon: cc -g3 -arch ev6 ONESTEP 164.gzip: -fast -04 -non_shared +CFB 175.vpr: -fast -04 -assume restricted_pointers +CFB 176.gcc: -fast -04 -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
197.parser:	-fast -04 -xtaso_short -non_shared +CFB
252.eon:	cxx -arch ev6 -02 -all -ldensemalloc -none
253.perlbmk:	-fast -non_shared +CFB +IFB
254.gap:	-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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HPO - NH Test date

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.

Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA perlbmk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64 gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC CPU2000 LP64

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 = 0x4000000000max_per_proc_stack_size = 0x4000000000 max_proc_per_user = 2048 max_threads_per_user = 0 maxusers = 16384per_proc_address_space = 0x4000000000
per_proc_data_size = 0x4000000000 per_proc_stack_size = 0x4000000000

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 16:15:48 2002 Submission: cpu2000-20020801-01540.sub

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