

CINT2000 Result

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CHARON-AXP/SMA ES40
2.1.26

SPECint2000 = 327

SPECint_base2000 = 329

SPEC license #: Tested by: Test date: Jun-2010 Hardware Avail: June-2010 Software Avail: Jun-2010

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	500	1000	1500	2000
164.gzip	1400	341	410	341	410				
175.vpr	1400	524	267	534	262				
176.gcc	1100	260	423	243	453				
181.mcf	1800	167	1080	143	1261				
186.crafty	1000	355	282	467	214				
197.parser	1800	477	377	434	414				
252.eon	1300	973	134	1024	127				
253.perlbmk	1800	653	276	648	278				
254.gap	1100	446	247	462	238				
255.vortex	1900	667	285	675	282				
256.bzip2	1500	345	435	347	433				
300.twolf	3000	1108	271	1108	271				

Hardware

CPU: Intel Core i7
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2
CPU(s) orderable: 1 to 2
Parallel: Yes
Primary Cache: 64KB(I)+64KB(D) on chip
Secondary Cache: 8MB off chip
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 3x4GB
Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V5.1B
Compiler: Compaq C V6.5-207
DIGITAL C++ V6.1-029-408B6
File System: AdvFS
System State: Multi-user

Notes/Tuning Information

Tested by

Baseline C : cc -v -arch ev6 -fast GEMFB ONESTEP
C++: cxx -v -arch ev6 -O2 ONESTEP

GEMFB: fdo_pre0 = mkdir /tmp/pb; rm -f /tmp/pb/\${baseexe}*
PASS1_CFLAGS = -prof_gen_noopt -prof_dir /tmp/pb
PASS2_CFLAGS = -prof_use_feedback -prof_dir /tmp/pb
(base uses directory /tmp/pb; peak uses /tmp/pp)

Peak: cc [except eon: cxx] -v -arch ev6 ONESTEP plus:

164.gzip: -g3 -fast -O4 +GEMFB
175.vpr: -g3 -fast -O4 +GEMFB
176.gcc: -g3 -fast -O4 -xtaso_short +GEMFB
181.mcf: -g3 -fast -xtaso_short +GEMFB
186.crafty: -g3 -fast -O4 -inline speed
197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
252.eon: -O2
253.perlbmk: -g3 -fast +GEMFB
254.gap: -g3 -fast -O4 +GEMFB
255.vortex: -g3 -fast +GEMFB

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Notes/Tuning Information (Continued)

256.bzip2: -g3 -fast -O4 +GEMFB

300.twolf: -g3 -fast -O4 +GEMFB

Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA

perlbnk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64

gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC_CPU2000_LP64

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