

CINT2000 Result

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CHARON-AXP/ES40
2.4.118-05

SPECint2000 = 393

SPECint_base2000 = 388

SPEC license #: P18510101 (peter.ljungberg@stromasys.com) | Test date: Sep-2010 | Hardware Avail: Sep-2010 | Software Avail: Sep-2010

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	251	559	247	567	
175.vpr	1400	359	390	371	377	
176.gcc	1100	258	426	246	447	
181.mcf	1800	151	1190	131	1373	
186.crafty	1000	451	222	512	195	
197.parser	1800	441	408	385	467	
252.eon	1300	585	222	578	225	
253.perlbmk	1800	652	276	654	275	
254.gap	1100	378	291	403	273	
255.vortex	1900	737	258	743	256	
256.bzip2	1500	264	568	264	567	
300.twolf	3000	665	451	658	456	

Hardware

CPU: Asus Core i7 965 3.20GHz
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2
CPU(s) orderable: 1 to 2
Parallel: Yes
Primary Cache: None
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: Host 12GB, Tru64 4GB
Disk Subsystem: 3x4GB (3 VDISK images on SATA drive)
Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX V5.1B (Rev. 2650)
Compiler: Compaq C V6.5-303
Compaq C++ V7.1-006
File System: AdvFS
System State: Multi-user

Notes/Tuning Information

Tested by Stromasys S.A

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