

CFP2000 Result

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CHARON-AXP/SMA ES40
2.1.26

SPECfp2000 = 127

SPECfp_base2000 = 127

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
168.wupwise	1600	1277	125	1223	131				
171.swim	3100	1856	167	1771	175				
172.mgrid	1800	3588	50.2	3605	49.9				
173.applu	2100	2008	105	2009	105				
177.mesa	1400	1292	108	1239	113				
178.galgel	2900	1655	175	1676	173				
179.art	2600	209	1241	204	1274				
183.equake	1300	842	154	845	154				
187.facerec	1900	1054	180	1170	162				
188.amp	2200	2017	109	1999	110				
189.lucas	2000	1729	116	1728	116				
191.fma3d	2100	2325	90.3	2320	90.5				
200.sixtrack	1100	4378	25.1	4309	25.5				
301.apsi	2600	1916	136	1928	135				

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
Compaq Fortran V5.3
File System: AdvFS
System State: Multi-user

Notes/Tuning Information

Tested by

Baseline C: cc -v -arch ev6 -fast -O4 ONESTEP
Fortran: f90 -v -arch ev6 -O5 ONESTEP

Peak: -v -g3 -arch ev6 -non_shared ONESTEP plus:

183.equake: -g3 -fast -O4 +GEMFB
168.wupwise: f90 -fast -O4 -pipeline -unroll 2
171.swim: f90 -fast -O5 -transform_loops
172.mgrid: f90 -O5 -transform_loops -tune ev6 -unroll 8
173.applu: f90 -fast -O5 -transform_loops -unroll 14
177.mesa: cc -fast -O4
178.galgel: f90 -O4 -unroll 2 -ldxml
RM_SOURCES = lapak.f90
187.facerec: f90 -fast -O4
188.amp: cc -fast -O4 -xtaso_short
189.lucas: f90 -fast -O5 -unroll 1
191.fma3d: f90 -O4

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Notes/Tuning Information (Continued)

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200.sixtrack: f90 -fast -O5 -transform_loops
301.apsi: f90 -O5 -transform_loops
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Portability: galgel: -fixed
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