



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL35p (AMD Opteron (TM) 275)

SPECfp2000 = **1830**
SPECfp_base2000 = **1672**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Jun-2005 Software Avail: Apr-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	69.8	2291	60.0	2666	[Bar chart showing ratio 2666]			
171.swim	3100	139	2235	139	2234	[Bar chart showing ratio 2234]			
172.mgrid	1800	119	1515	110	1641	[Bar chart showing ratio 1641]			
173.applu	2100	117	1796	108	1940	[Bar chart showing ratio 1940]			
177.mesa	1400	81.5	1718	76.4	1832	[Bar chart showing ratio 1832]			
178.galgel	2900	105	2766	93.6	3100	[Bar chart showing ratio 3100]			
179.art	2600	117	2217	81.8	3177	[Bar chart showing ratio 3177]			
183.quake	1300	89.7	1449	83.9	1549	[Bar chart showing ratio 1549]			
187.facerec	1900	85.7	2218	82.4	2306	[Bar chart showing ratio 2306]			
188.amp	2200	173	1270	159	1382	[Bar chart showing ratio 1382]			
189.lucas	2000	110	1815	110	1814	[Bar chart showing ratio 1814]			
191.fma3d	2100	156	1345	146	1439	[Bar chart showing ratio 1439]			
200.sixtrack	1100	172	639	149	738	[Bar chart showing ratio 738]			
301.apsi	2600	183	1422	179	1451	[Bar chart showing ratio 1451]			

Hardware

CPU: AMD Opteron (TM) 275
CPU MHz: 2200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 64KBI + 64KBD (on chip) per core
Secondary Cache: 1024KB(I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 2x2048MB PC3200 CL3.0
Disk Subsystem: 1x60GB ATA100 5400RPM
Other Hardware:

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 1
SuSE kernel 2.6.5-7.139-default
Compiler: PathScale EKO Compiler Suite, Release 2.1
AMD Core Math Library 2.5.1
File System: Linux/ext2
System State: Multi-user run level 3

Notes/Tuning Information

```
+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
+ACML: Linked with AMD Core Math Library
Base tuning for C programs: -Ofast -WOPT:mem_opnds=on +FDO
Base tuning for FORTRAN programs: -Ofast -LNO:fusion=2 -OPT:fast_complex
Portability flags:
 178.galgel: -fixedform
Peak tuning:
 168.wupwise: -Ofast -LNO:prefetch Ahead=5:prefetch=3
              -OPT:unroll_times_max=8:unroll_size=128:IEEE NaN_Inf=off:ro=3 -TENV:X=4
              -IPA:space=1000:linear=on:plimit=50000:callee_limit=5000
              -INLINE:aggressive=on
 171.swim: -Ofast -LNO:fusion=2
 172.mgrid: -O3 -LNO:fusion=2:blocking=off
              -OPT:Ofast:unroll_times_max=8:unroll_size=256:ro=3 -CG:gcm=off:cflow=off
 173.applu: -Ofast -CG:local_fwd_sched=on
              -LNO:fusion=2:fission=2:full_unroll_size=10000:prefetch=3
              -OPT:ro=3 -TENV:X=3 -WOPT:val=2
```



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SPECfp2000 = 1830
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Notes/Tuning Information (Continued)

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177.mesa:      -O2 -ipa -OPT:Ofast -fno-math-errno -CG:local_fwd_sched=on +FDO
178.galgel:    -Ofast -OPT:fast_complex RM_SOURCES=lapak.f90 +ACML
179.art:       -O3 -OPT:ro=2:div_split=on:alias=typed -fno-math-errno -m32 +FDO
183.quake:    -Ofast -WOPT:mem_opnds=on -CG:local_fwd_sched=on -m32
187.facerec:  -Ofast -OPT:treeheight=on:IEEE_NaN_Inf=off:ro=3 -CG:load_exe=0
              -LNO:fusion=2 -IPA:plimit=1500 +FDO
188.amp:      -O3 -OPT:alias=disjoint:unroll_times_max=8:Ofast:ro=3
              -fno-math-errno -TENV:X=4 -LNO:prefetch=0 +FDO
189.lucas:    -Ofast -CG:local_fwd_sched=on -LNO:fusion=2 +FDO
191.fma3d:    -O2 -ipa -CG:load_exe=1 -OPT:Ofast:IEEE_arith=3:ro=3
              -WOPT:mem_opnds=on:retype_expr=on -IPA:pu_reorder=1 +FDO
200.sixtrack: -Ofast -CG:load_exe=1 +FDO
301.apsi:     -Ofast -TENV:X=4 -LNO:fusion=2:prefetch=0
BIOS Configuration Notes
Node Interleaving is Disabled
Other Configuration Notes
Single-processor kernel was used

```