



CFP2000 Result

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Hewlett-Packard Company
hp server rx2600 (1000 MHz, Itanium 2)

SPECfp2000 = 1301
SPECfp_base2000 = 1174

SPEC license #: 3 Tested by: HP Richardson Test date: Jul-2002 Hardware Avail: Sep-2002 Software Avail: Oct-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	262	611	152	1053	
171.swim	3100	127	2448	119	2604	
172.mgrid	1800	110	1629	110	1629	
173.applu	2100	191	1102	191	1102	
177.mesa	1400	195	718	189	740	
178.galgel	2900	111	2602	83.6	3470	
179.art	2600	93.8	2773	81.7	3183	
183.quake	1300	108	1198	105	1238	
187.facerec	1900	244	779	237	802	
188.amp	2200	230	957	230	957	
189.lucas	2000	168	1192	145	1381	
191.fma3d	2100	341	616	330	636	
200.sixtrack	1100	117	938	117	938	
301.apsi	2600	235	1108	205	1267	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: no
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 3.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 6GB
 Disk Subsystem: 1x36GB SCSI disk (root + swap)
 Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.22
 Compiler: HP C/ANSI C Compiler B.11.22
 HP Fortran 90 Compiler B.11.22
 HP MLIB B.11.22

 PHSS_27281: f90 product
 PHSS_27286: C product
 PHSS_27287: U2comp
 PHSS_27288: Linker
 PHSS_27291: PBO
 PHSS_27293: milli.a
 Caliper v2.1 www.hp.com/go/caliper

 File System: VxFS
 System State: Multi-user

Notes/Tuning Information

C compiler invoked as:
/opt/ansic/bin/cc -AOe

Portability Flags:
178.galgel: +source=fixed

Base Flags:
 All : +Oprofile=collect/+Oprofile=use
 f90 : +Ofast +O3 -minshared
 C : +Ofaster +Onorecovery -exec
 Note : By default, f90 links in MLIB libraries if installed

Peak Flags (all use the following except where noted below):



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Notes/Tuning Information (Continued)

```
All      : LIBS =
f77/f90  : +Ofast +Onoptrs_to_globals -minshared +O3
C        : +Oprofile=collect/+Oprofile=use +Ofaster +Onorecovery
          +Onoptrs_to_globals +Otype_safety=strong -exec -Wl,-aarchive_shared
```

```
168.wupwise : +Ofast +O3 +cat +Onoptrs_to_globals -minshared
              ONESTEP = 1
```

```
172.mgrid  : basepeak=true
```

```
173.applu  : basepeak=true
```

```
177.mesa   : LIBS = -Bprotected
```

```
178.galgel : +Ofast +Onoptrs_to_globals -minshared +O3
              RM_SOURCES = lapak.f90
              LIBS = -llapack
```

```
179.art     : LIBS = -Bprotected_data /opt/langtools/lib/hpux32/effmem.o
```

```
183.equake : LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
```

```
188.ampp   : basepeak=true
```

```
189.lucas  : +Ofast +Onoptrs_to_globals -minshared +O3 +Oinlinebudget=100
```

```
200.sixtrack : basepeak=true
```

Kernel Tunables:

```
maxdsiz      0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz      0x10000000
maxssiz_64bit 0x40000000
vps_ceiling  16384
vps_pagesize 4096
swapmem_on   0
dbc_max_pct  20
dbc_min_pct  20
```

Note:

EFI shell utility 'cpuconfig' used
to deconfigure other processors