OMPM2001 Result

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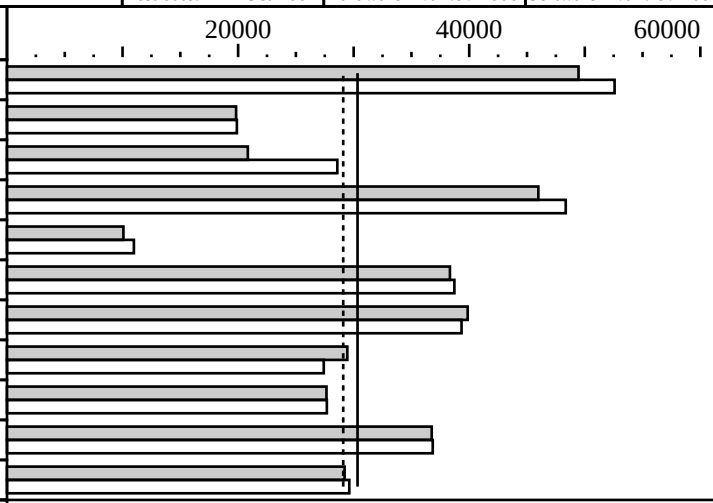
Unisys ES7000/1

SPECompMpeak2001 = 30336

SPECompMbase2001 = 29096

SPEC license #: HPG0013A | Tested by: Intel Corporation | Test site: -- | Test date: Oct-2007 | Hardware Avail: Nov-2006 | Software Avail: Nov-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	121	49459	114	52581
312.swim_m	6000	303	19826	302	19893
314.mgrid_m	7300	350	20841	255	28586
316.applu_m	4000	87.0	45982	82.7	48352
318.galgel_m	5100	506	10075	464	10981
320.equake_m	2600	67.8	38332	67.2	38717
324.apsi_m	3400	85.3	39868	86.4	39337
326.gafort_m	8700	295	29452	317	27412
328.fma3d_m	4600	166	27648	166	27680
330.art_m	6400	174	36755	174	36843
332.ammp_m	7000	240	29215	236	29621



Hardware

CPU:	Dual-Core Intel(R) Xeon(R) Processor 7140M
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	64 cores, 32 chips, 2 cores/chip
CPU(s) orderable:	1-32 chips
Primary Cache:	32KB(I)+32KB(D)/core on chip
Secondary Cache:	4096KB/chip (I+D) on chip
L3 Cache:	16MB/chip
Other Cache:	N/A
Memory:	128 GB
Disk Subsystem:	SCSI
Other Hardware:	

Software

OpenMP Threads:	64
Parallel:	OpenMP
Operating System:	SUSE Linux Enterprise Server 10 (x86_64)
Compiler:	Intel FORTRAN Compiler 10.1.008 for Linux
File System:	Linux ext3
System State:	Default

Notes/Tuning Information

```
Baseline optimization flags:
 COPTIMIZE = -O3 -ipo -openmp -ansi_alias -openmp-lib compat
 FOPTIMIZE = -O3 -ipo -openmp -openmp-lib compat
export KMP_LIBRARY=turnaround
export KMP_STACKSIZE=31M

export OMP_DYNAMIC=FALSE
export KMP_BLOCKTIME=infinite
ONESTEP=yes
ulimit -s 1048576


base tuning
  export KMP_AFFINITY=none
peak tuning
   export KMP_AFFINITY=compact,1
   export KMP_CPUINFO_FILE=/etc/cpuinfo

   Portability Flags:
       318.galgel_m: -FI -132
   Extra Flags:
       330.art_m: -DINTS_PER_CACHELINE=32 -DDBLS_PER_CACHELINE=16
```

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Notes/Tuning Information (Continued)

```
          all: -gcc-name=/usr/bin/gcc

       New alternate sources
          mgrid standard conformance to OpenMP 2.5; src.alt/intel

    Flags file: Intel-ic10.1-intel64-linux-flags-file-20071211.html
```