



OMP2001 Result

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Unisys Corporation
ES7000/420

SPECompMpeak2001 = 12207

SPECompMbase2001 = 11806

SPEC license #HPG0016 | Tested by: Unisys Corporation | Test site: Salt Lake City | Test date: Nov-2003 | Hardware Avail: Jul-2003 | Software Avail: Oct-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	471	12728	471	12747	
312.swim_m	6000	308	19488	308	19480	
314.mgrid_m	7300	330	22100	333	21892	
316.applu_m	4000	376	10640	354	11304	
318.galgel_m	5100	411	12415	406	12577	
320.earthquake_m	2600	192	13509	193	13470	
324.apsi_m	3400	365	9319	328	10358	
326.gafort_m	8700	1070	8132	1068	8148	
328.fma3d_m	4600	665	6920	595	7733	
330.art_m	6400	384	16682	384	16661	
332.ammp_m	7000	964	7259	884	7922	

Hardware

CPU: Itanium 2 processor
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 8
 CPU(s) orderable: 4,8,12,16
 Primary Cache: 16KBI+16KBD on chip
 Secondary Cache: 256KB(I+D) on chip
 L3 Cache: 6MB(I+D) on chip
 Other Cache: None
 Memory: 64GB (blocked)
 Disk Subsystem: 2x36GB SCSI disk (mirrored) (15k rpm)
 Other Hardware:

Software

OpenMP Threads: 8
 Parallel: OpenMP
 Operating System: SuSE LINUX Enterprise Server 8 for Intel Itanium Processor Family SP3
 Compiler: Intel C/C++ Compiler 7.1 for Linux build 20030924
 Intel Fortran Compiler 7.1 for Linux build 20030924
 File System: ReiserFS/xfs
 System State: Runlevel 3 (multiuser+network)

Notes/Tuning Information

Base tuning:
 C programs: -O3 -ipo -openmp -ansi_alias
 Fortran programs: -O3 -ipo -openmp -stack_temps

Peak tuning:
 default: -ipo -O3 -openmp -stack_temps
 310.wupwise_m: default
 312.swim_m: default
 314.mgrid_m: default
 316.applu_m: -ipo -openmp
 318.galgel_m: default
 320.earthquake_m: -ipo -O3 -openmp -ansi_alias
 324.apsi_m: -O3 -openmp -stack_temps
 326.gafort_m: default
 326.fma3d_m: -O3 -openmp -stack_temps -static
 330.art_m: -ipo -O3 -openmp -ansi_alias
 332.ammp_m: -openmp -ansi_alias

Portability:
 318.galgel_m: -FI -132



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Notes/Tuning Information (Continued)

User environment:

OMP_NUM_THREADS=8

ulimit -s 2000000

KMP_STACKSIZE=250000000

KMP_LIBRARY=TURNAROUND

Alternate sources for peak:

SPEC OMPL2001 (srcalt=ompl) 64-bit source modified for OMPM2001.

Used for 320.equake_m, 324.apsi_m, 328.fma3d_m.

Notes:

SP3 to kernel 2.4.21

System was configured with 4 Processor Modules with 2 processors per Processor Module

ReiserFS is the root partition and xfs partition is for the benchmark.