

Performace Report

This file contains timing results of some LAIPE functions. All the results in this file are only for the purpose of demonstrations. There is no any endorsement of hardware components and software that are used to test the LAIPE functions. All trademarks and registered trademarks are the property of their respective holders.

\$ Environment 1

Operating System: Windows NT 3.5

Compiler: Microsoft 32-bit Fortran compiler

Hardware: AIR 54CDP Pentium EISA/PCI System Board

Dual Intel 90MHZ Pentium Processors

256K (15ns) L2-Cache

64 Mbytes of RAM (70ns)

Intel Neptune Pentium-to-PCI/EISA chipset

Performance: Elapsed Time as follows

<u>Function</u>	<u>1 CPU(sec)</u>	<u>2 CPUs(sec)</u>
Decompose_CSP_S	215.63	107.98
[Problem: Dimension=10000, Half Bandwidth=600]		
Decompose_VSP_S	153.97	79.19
[Problem: Dimension=10000, Profile=4148222]		
Decompose_DSP_S	300.78	165.59
[Problem: Dimension=2400]		
Decompose_CSG_S	224.31	112.59
[Problem: Dimension=10000, Half Bandwidth=600]		
Decompose_VSG_S	160.38	84.14
[Problem: Dimension=10000, Profile=4148222]		
Decompose_DSG_S	312.77	171.81
[Problem: Dimension=2400]		
Decompose_CAG_S	166.49	84.27
[Problem: Dimension=8000, Upper Bandwidth=300, Lower Bandwidth=400]		
Decompose_VAG_S	26.09	13.41
[Problem: Dimension=10000,		

Profile=5522178]

Decompose_DAG_S	579.53	293.44
[Problem: Dimension=2400]		
ppDecompose_CAG_S	514.78	287.75
[Problem: Dimension=4000, Upper Bandwidth=200, Lower Bandwidth=600]		
ppDecompose_DAG_S	181.05	99.06
[Problem: Dimension=1200]		
fpDecompose_DAG_S	416.31	235.00
[Problem: Dimension=1200]		
Solution_CSP_S	216.83	108.69
[Problem: Dimension=10000, Half Bandwidth=600]		
Solution_VSP_S	156.02	80.23
[Problem: Dimension=10000, Profile=4148222]		
Solution_DSP_S	302.63	166.48
[Problem: Dimension=2400]		
Solution_CSG_S	227.64	114.61
[Problem: Dimension=10000, Half Bandwidth=600]		
Solution_VSG_S	162.38	85.59
[Problem: Dimension=10000, Profile=4148222]		
Solution_DSG_S	312.90	172.11
[Problem: Dimension=2400]		
Solution_CAG_S	168.99	86.24
[Problem: Dimension=8000, Upper Bandwidth=300, LowerBandwidth=400]		
Solution_VAG_S	27.92	14.70
[Problem: Dimension=10000, Profile=5522178]		
Solution_DAG_S	581.13	294.34
[Problem: Dimension=2400]		
meSolution_CSP_S	4.80	2.39
[Problem: Dimension=40000, Half Bandwidth=15, Number of vectors=1, Multiple-Entry Solver]		
meSolution_CSG_S	6.63	3.30

[Problem: Dimension=40000,
HalfBandwidth=15,
Number of vectors=1,
Multiple-Entry Solver]

meSolution_CAG_S 4.31 2.17

[Problem: Dimension=40000,
Upper Bandwidth=10,
LowerBandwidth=10,
Number of vectors=1,
Multiple-Entry Solver]

ppSolution_CAG_S 503.45 285.14

[Problem: Dimension=4000,
Upper Bandwidth=200,
Lower Bandwidth=600,
Partial Pivoting]

ppSolution_DAG_S 202.06 107.86

[Problem: Dimension=1200,
Partial Pivoting]

fpSolution_DAG_S 421.52 238.56

[Problem: Dimension=1200,
Full Pivoting]