

**Distribution:** Fedora Core 4  
**Cluster Tools:** Basement Supercomputing  
**Compiler:** gcc gfortran  
**Test Size:** A, B  
**Number of Cores:** 1,4,8,16  
**Tester:** Douglas Eadline deadline@basement-supercomputing.com  
**Date:** 06/07/06  
**Notes:** If the lam ssi is sysv for 4 and 8 processes, this indicates that two cores per processor were used. For all 16 process runs, all 16 cores were used, however, sysv did not always produce the best results Contact tester for raw data files.  
 Copyright (c) 2006, Basement Supercomputing, All Rights Reserved

## Size A Results

Test=npb.gnu4.dummy.A.1

Program	MOPS Per Proc	Total MOPS	LAM SSI	Speedup
BT	438.81	438.81		1
CG	363.08	363.08		1
EP	6.46	6.46		1
FT	473.93	473.93		1
IS	32.18	32.18		1
LU	544.54	544.54		1
MG	417.34	417.34		1
SP	429.62	429.62		1

Test=npb.gnu4.lam.A.16

Program	MOPS Per Proc	Total MOPS	LAM SSI	Speedup
BT	139.78	2236.55	sysv	5.1
CG	9.84	157.38	sysv	0.43
EP	4.81	76.96	lamd	11.91
FT	87.91	1406.6	sysv	2.97
IS	0.96	15.32	lamd	0.48
LU	348.17	5570.66	sysv	10.23
MG	105.56	1688.91	lamd	4.05
SP	48.97	783.57	sysv	1.82

Test=npb.gnu4.lam.A.4

Program	MOPS Per Proc	Total MOPS	LAM SSI	Speedup
BT	385.67	1542.66	lamd	3.52
CG	235.2	940.79	sysv	2.59
EP	6.15	24.62	lamd	3.81
FT	271.66	1086.63	lamd	2.29
IS	15	60	sysv	1.86
LU	519.54	2078.15	lamd	3.82
MG	358.64	1434.55	lamd	3.44
SP	323.56	1294.24	sysv	3.01

Test=npb.gnu4.lam.A.8

Program	MOPS Per Proc	Total MOPS	LAM SSI	Speedup
BT	NOT-RUN	NOT-RUN		0
CG	138.76	1110.06	lamd	3.06
EP	6.12	48.92	lamd	7.57
FT	210.43	1683.4	lamd	3.55
IS	3.23	25.8	lamd	0.8
LU	468.64	3749.12	lamd	6.88

MG	200.97	1607.78	sysv	3.85
SP	NOT-RUN	NOT-RUN		0

**Size B Results**

Test=npb.gnu4.dummy.B.1

<b>Program</b>	<b>MOPS Per Proc</b>	<b>Total MOPS</b>	<b>LAM SSI</b>	<b>Speedup</b>
BT	441.25	441.25		1
CG	249.81	249.81		1
EP	6.43	6.43		1
FT	499.93	499.93		1
IS	25.01	25.01		1
LU	541.02	541.02		1
MG	444.44	444.44		1
SP	416.21	416.21		1

Test=npb.gnu4.lam.B.16

<b>Program</b>	<b>MOPS Per Proc</b>	<b>Total MOPS</b>	<b>LAM SSI</b>	<b>Speedup</b>
BT	238.61	3817.76	lamd	8.65
CG	49.7	795.16	sysv	3.18
EP	4.82	77.17	lamd	12
FT	172.29	2756.58	sysv	5.51
IS	2.84	45.47	lamd	1.82
LU	396.13	6338.07	lamd	11.72
MG	99.1	1585.68	lamd	3.57
SP	128.4	2054.39	sysv	4.94

Test=npb.gnu4.lam.B.4

<b>Program</b>	<b>MOPS Per Proc</b>	<b>Total MOPS</b>	<b>LAM SSI</b>	<b>Speedup</b>
BT	406.96	1627.82	lamd	3.69
CG	226.52	906.09	sysv	3.63
EP	6.12	24.47	lamd	3.81
FT	295	1180	lamd	2.36
IS	13.9	55.62	lamd	2.22
LU	518.26	2073.05	lamd	3.83
MG	379.97	1519.9	lamd	3.42
SP	349.64	1398.56	lamd	3.36

Test=npb.gnu4.lam.B.8

<b>Program</b>	<b>MOPS Per Proc</b>	<b>Total MOPS</b>	<b>LAM SSI</b>	<b>Speedup</b>
BT	NOT-RUN	NOT-RUN		0
CG	175.3	1402.4	lamd	5.61
EP	4.82	38.52	lamd	5.99
FT	263.69	2109.51	lamd	4.22
IS	7.59	60.75	lamd	2.43
LU	491.49	3931.91	lamd	7.27
MG	219.87	1758.97	sysv	3.96
SP	NOT-RUN	NOT-RUN		0