

Px1			one Summit node								
nnz(L)			1 GPU	2 GPU	6 GPU	speedup 2 vs 1	speedup 6 vs 1	speedup 6 vs 2			
5.31E+07		s1_mat_0_126936	1.30E-02	2.10E-02							
1.92E+08		DG_GrapheneDisorder_2048	2.19E-02	2.29E-02							
2.11E+08		s1_mat_0_253872	1.71E-02	2.37E-02							
5.50E+08		DNA_715_64cell	2.84E-02	3.79E-02							
8.54E+08		LU_C_BN_C_2by2	9.46E-02	6.17E-02	4.31E-02	1.53	2.19	1.43	NREL=100 (default=20): involve more nnz		
8.65E+08		Li4244	6.30E-02	4.12E-02	1.80E-02	1.53	3.50	2.29			
8.80E+08	try different pa	s1_mat_0_507744 (256)	6.05E-02	5.07E-02	4.54E-02	1.19	1.33	1.12			
9.48E+08		s1_mat_0_507744 (512)	5.26E-02	5.29E-02		0.99					
1.08E+09		s1_mat_0_507744 (1024)	5.18E-02	5.36E-02		0.97					
8.42E+08		s1_mat_0_507744 (512,NREL=100)	5.33E-02	5.57E-02		0.96					
8.42E+08		s1_mat_0_507744 (1024,NREL=100)	5.16E-02	5.02E-02		1.03					
9.66E+08		DG_GrapheneDisorder_8192	7.33E-02	6.08E-02	5.50E-02	1.21	1.33	1.11			
1.87E+09		LU_C_BN_C_4by2		1.16E-01	6.81E-02			1.70			
				flops/msg							
nnzL	flop/nnz (~2)		msg	Knnz per msg	Kflops per msg	FLOPS/s		Knnz per msg	DAG levels		
nnzL	flops (nnz*2)		2 GPU	2 GPU	2GPU	2GPU	6 GPU	6 GPU			
5.31E+07	1.06E+08	s1_mat_0_126936	4472	12	24	2.09E+09					
1.92E+08	3.84E+08	DG_GrapheneDisorder_2048	516	372	744	1.68E+10					
2.11E+08	4.22E+08	s1_mat_0_253872	2077	102	203	1.78E+10					
5.50E+08	1.10E+09	DNA_715_64cell	2277	241	483	2.90E+10					
8.54E+08	1.71E+09	LU_C_BN_C_2by2 (256)	607	1406	2,813	2.77E+10	1010	845			
8.65E+08	1.73E+09	Li4244 (256)	162	5341	10,682	4.20E+10	270	3205			
8.80E+08	1.76E+09	s1_mat_0_507744 (256)	4911	179	358	3.47E+10	7967	110			
9.66E+08	1.93E+09	DG_GrapheneDisorder_8192 (256)	1000	966	1,932	3.18E+10	2065	468			
1.87E+09	3.74E+09	LU_C_BN_C_4by2 (256)	1191	1572	3,144	3.23E+10	1985	943			
9.48E+08	1.90E+09	s1_mat_0_507744 (512)	3600	263	527	3.58E+10					
1.08E+09	2.17E+09	s1_mat_0_507744 (1024)	2102	516	1,032	4.05E+10					
8.42E+08	1.68E+09	s1_mat_0_507744 (512,NREL=100)	6648	127	253	3.02E+10					
8.42E+08	1.68E+09	s1_mat_0_507744 (1024,NREL=100)	6581	128	256	3.35E+10					