

c432			c499			c880		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	>48hrs	>7000	GSHE (16)	>48hrs	>150	GSHE (16)	>48hrs	>11000
DWM (7)	>48hrs	>31000	DWM (7)	>48hrs	>13000	DWM (7)	2.031488 σ 0.52054765	43.1 σ 5.3427001
TVD (6)	2.121909 σ 0.9776401	40.4 σ 7.6478029	TVD (6)	>48hrs	>13000	TVD (6)	1.0086708 σ 0.24978202	38.5 σ 7.9056942
c1355			c1908			c2670		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	>48hrs	>7000	GSHE (16)	>48hrs	>9000	GSHE (16)	>48hrs	>8500
DWM (7)	>48hrs	>12000	DWM (7)	>48hrs	>21000	DWM (7)	7hrs σ 0.5hrs	3345.3 σ 157.04002
TVD (6)	2.553465 σ 0.40989675	63.3 σ 8.6158768	TVD (6)	>48hrs	>21000	TVD (6)	4.25hrs σ 0.25hrs	2462.7 σ 149.16512
c3540			c5315			c6288		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	>48hrs	>7000	GSHE (16)	>48hrs	>8000	GSHE (16)	>48hrs	>25
DWM (7)	4.574035 σ 1.7035534	79 σ 16.110728	DWM (7)	23.5954 σ 6.8368708	228.8 σ 42.483461	DWM (7)	9.7hrs σ 3.6hrs	19.7 σ 3.2676869
TVD (6)	5.376669 σ 1.6317427	89.4 σ 19.545957	TVD (6)	23.98327 σ 3.6409703	225.7 σ 19.788044	TVD (6)	>48hrs	>15
c7552			Gate Name					
			Gate Name	CPU Time (s)	Number of Iterations			
			GSHE (16)	207.2047 σ 29.406686	439.5 σ 36.292791			
			DWM (7)	87.9998 σ 27.427381	401.6 σ 78.556703			
			TVD (6)	59.9906 σ 19.595987	374.3 σ 70.49673			

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Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	275.84 σ 55.438416	124.1 σ 9.9604775	GSHE (16)	179.0751 σ 36.965672	125.1 σ 16.815667	GSHE (16)	90.59087 σ 17.963207	83.5 σ 7.6630426
DWM (7)	5.217585 σ 1.9838134	69.4 σ 8.9218832	DWM (7)	13.723765 σ 4.1053091	67.7 σ 6.9290051	DWM (7)	2.651135 σ 0.7082792	40.5 σ 7.397447
TVD (6)	3.821535 σ 0.76729548	57.3 σ 9.4050814	TVD (6)	9.181177 σ 4.0281067	64 σ 15.776213	TVD (6)	4.123437 σ 0.78248477	47.6 σ 5.0155314
c1355			c1908			c2670		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	172.54581 σ 45.825232	118.8 σ 22.069587	GSHE (16)	445.9793 σ 44.246118	174.1 σ 16.400881	GSHE (16)	294.0986 σ 35.316262	123.8 σ 12.434718
DWM (7)	8.441726 σ 3.6201178	63.8 σ 15.859102	DWM (7)	14.146581 σ 10.9134	95.3 σ 52.803725	DWM (7)	7.667687 σ 1.7722627	62.4 σ 8.5009803
TVD (6)	5.371787 σ 2.3541287	53.1 σ 10.343543	TVD (6)	4.85327 σ 1.2498791	62.7 σ 12.53484	TVD (6)	7.953476 σ 1.519593	61.4 σ 9.0209632
c3540			c5315			c6288		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	16.959515 σ 3.6978129	69.5 σ 7.1530879	GSHE (16)	33.19373 σ 10.329658	92.8 σ 10.768266	GSHE (16)	>48hrs	>10
DWM (7)	2.034729 σ 0.31632688	39.5 σ 5.5025247	DWM (7)	2.597386 σ 0.33141273	42.9 σ 4.1753243	DWM (7)	>48hrs	>5
TVD (6)	1.5103817 σ 0.45111196	35 σ 2.2110832	TVD (6)	2.235655 σ 0.35707366	43.4 σ 4.4020197	TVD (6)	>48hrs	>5
c7552			Gate Name					
			Gate Name	CPU Time (s)	Number of Iterations			
			GSHE (16)	173.6361 σ 24.57103	137.4 σ 11.127543			
			DWM (7)	3.490855 σ 0.79493834	54.7 σ 6.9450222			
			TVD (6)	4.037492 σ 0.54709437	54.3 σ 3.9171985			

c432			c499			c880		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	>48hrs	>4000	GSHE (16)	413.7956 σ 124.44677	134.4 σ 20.062126	GSHE (16)	93.19699 σ 7.9563131	91.9 σ 10.049323
DWM (7)	11.414654 σ 4.4152139	82.3 σ 5.7551909	DWM (7)	6.058423 σ 2.9049142	72.6 σ 20.812389	DWM (7)	4.661315 σ 1.0390908	50 σ 9.0798923
TVD (6)	7.983314 σ 1.871212	81.6 σ 13.133503	TVD (6)	10.546198 σ 3.825435	78.7 σ 18.726393	TVD (6)	3.849954 σ 0.8092229	45.7 σ 7.3037281
c1355			c1908			c2670		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	52.75467 σ 14.719091	92.8 σ 6.4083279	GSHE (16)	245.3824 σ 43.133292	173 σ 25.285042	GSHE (16)	>48hrs	>5000
DWM (7)	2.19537 σ 0.29155742	50.1 σ 1.7288403	DWM (7)	13.736474 σ 7.9224176	128.1 σ 44.520782	DWM (7)	372.5979 σ 142.62396	586.8 σ 130.3387
TVD (6)	2.425552 σ 0.79521695	53.6 σ 3.5023801	TVD (6)	5.810133 σ 1.2510946	72 σ 13.474255	TVD (6)	4.860118 σ 0.8882338	56.6 σ 8.0027773
c3540			c5315			c6288		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	69.39999 σ 19.916895	73 σ 13.224556	GSHE (16)	76.11359 σ 23.549347	92.1 σ 13.135617	GSHE (16)	>48hrs	>20
DWM (7)	2.748185 σ 0.49871222	35.8 σ 3.2249031	DWM (7)	3.184463 σ 0.31446131	44.4 σ 2.674987	DWM (7)	>48hrs	>10
TVD (6)	2.662433 σ 0.29017682	33.7 σ 2.3118055	TVD (6)	2.898018 σ 0.38187825	42.1 σ 3.3149493	TVD (6)	>48hrs	>5
c7552			c7552			c7552		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	114.44288 σ 25.676319	121.1 σ 10.712921	GSHE (16)	114.44288 σ 25.676319	121.1 σ 10.712921	GSHE (16)	>48hrs	>20
DWM (7)	3.624588 σ 0.71238488	52.1 σ 6.9033003	DWM (7)	3.624588 σ 0.71238488	52.1 σ 6.9033003	DWM (7)	>48hrs	>10
TVD (6)	2.54445 σ 0.24138562	46.4 σ 2.9135698	TVD (6)	2.54445 σ 0.24138562	46.4 σ 2.9135698	TVD (6)	>48hrs	>5

c432			c499			c880		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	48.92675 σ 12.366759	93.9 σ 4.976612	GSHE (16)	1955.87 σ 1050.3504	129.2 σ 24.192745	GSHE (16)	89.84783 σ 17.013053	75.7 σ 7.3944424
DWM (7)	2.438914 σ 0.51631595	46.2 σ 5.5136195	DWM (7)	40.16484 σ 23.461379	84.1 σ 19.347409	DWM (7)	3.463262 σ 0.97633581	42.7 σ 8.4465641
TVD (6)	2.697474 σ 0.84470312	47.6 σ 6.4152596	TVD (6)	29.214876 σ 12.88525	83.6 σ 16.978418	TVD (6)	3.07766 σ 0.65621961	40.2 σ 6.7954233
c1355			c1908			c2670		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	573.7109 σ 510.11011	175.5 σ 165.40204	GSHE (16)	77.81685 σ 17.922187	70.8 σ 10.799177	GSHE (16)	766.76 σ 1594.0054	467 σ 772.54845
DWM (7)	12.744562 σ 7.3751243	71.7 σ 21.039909	DWM (7)	4.206951 σ 2.1934601	30.9 σ 7.6368987	DWM (7)	67.342215 σ 113.88854	340.7 σ 463.91883
TVD (6)	4.938258 σ 2.2445227	52.7 σ 15.136784	TVD (6)	2.442519 σ 1.2707978	32.4 σ 13.243028	TVD (6)	4.571501 σ 2.0967872	55.6 σ 22.706827
c3540			c5315			c6288		
Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations	Gate Name	CPU Time (s)	Number of Iterations
GSHE (16)	33.41119 σ 3.2067851	76.8 σ 5.95912	GSHE (16)	23.84931 σ 7.4911568	68.7 σ 10.133004	GSHE (16)	>48hrs	>20
DWM (7)	2.954317 σ 0.48093778	40.9 σ 4.5080175	DWM (7)	3.439022 σ 0.73861978	36.5 σ 4.7434165	DWM (7)	>48hrs	>10
TVD (6)	3.799702 σ 0.94417108	41 σ 4.4472214	TVD (6)	2.326565 σ 0.3340169	32.6 σ 3.0258149	TVD (6)	>48hrs	>5
c7552								
Gate Name	CPU Time (s)	Number of Iterations	GSHE (16)	38.03936 σ 8.8092611	94.9 σ 16.072406			
			DWM (7)	2.325444 σ 0.50944334	33.5 σ 5.2546276			
			TVD (6)	2.530357 σ 1.6155574	39.9 σ 17.188174			

GSHE								
Benchmark	Highest		Lowest		50/50		Random	
	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)
c432	37.392571	4.9242485	39.046571	5.8859337	30.231286	0.5305905	36.045857	9.6747637
c499	35.063344	0.19449593	55.463563	0.14875709	48.453625	3.1046909	44.237156	3.186491
c880	37.301462	2.8419748	34.891192	0.16815181	37.894231	2.2852	36.745885	2.2739299
c1355	52.077906	0.086058066	55.50025	0.11546844	49.174188	2.4122423	40.818844	3.4343849
c1908	49.60796	4.1643353	39.18908	1.7892316	50.65932	2.8774482	37.63932	3.0124023
c2670	34.997359	0.41486176	35.667781	1.1843613	36.2195	1.3099742	35.824516	1.6423024
c3540	37.151864	2.8523869	38.525955	3.0022129	37.891545	2.6430429	39.941	2.5108004
c5315	35.347114	0.38386635	36.239341	0.94793034	35.29439	0.6420724	36.143894	0.74103447
c6288	48.337594	1.1019092	44.128688	2.6776394	45.081875	2.7942274	45.587938	1.8489621
c7552	36.89171	1.4213018	38.661131	1.7078907	36.961393	1.4332682	36.871206	1.210988
Average	40.416888	6.7401508	41.731355	7.6810899	40.786135	6.983088	38.985562	3.5504705
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DWM								
Benchmark	Highest		Lowest		50/50		Random	
	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)
c432	44.760286	6.6492437	35.072571	10.846964	29.939	0.17981857	35.486429	6.6552883
c499	35.028375	0.17319479	57.519625	0.13023431	51.837688	5.7620419	47.218219	4.3724331
c880	37.712192	2.0866168	34.841846	0.19998149	38.148269	2.1221794	37.137846	2.9847011
c1355	56.322781	0.61099838	57.472469	0.089760176	50.1745	4.5370314	41.689188	4.8150239
c1908	46.21568	2.9695207	39.01976	1.5081519	47.91672	2.9870137	37.3536	2.0318786
c2670	35.165953	0.49967604	35.912313	1.034883	36.482531	0.85548003	36.680328	2.3249303
c3540	40.841864	4.2200923	35.409864	2.3448552	39.298045	2.0281123	40.220364	2.1930751
c5315	35.334309	0.3862726	36.439642	0.86494723	35.968146	0.77829598	35.729569	0.75270006
c6288	45.004438	0.93245242	43.339688	2.2804385	45.182031	1.4071263	46.949625	2.4447324
c7552	37.012907	1.1223793	36.821215	0.97144634	37.183953	0.99734666	36.87114	1.0684123
Average	41.339879	6.8275512	41.184899	8.9551005	41.213088	7.1505035	39.533631	4.4189131
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TVD								
Benchmark	Highest		Lowest		50/50		Random	
	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)	OCR (%)	Standard Deviation (%)
c432	44.739	10.671068	43.038429	15.757961	29.893429	0.10955321	34.977857	8.0452729
c499	34.88671875	0.1985052173	55.638219	0.16245045	50.069531	3.4273136	45.527031	5.6913341
c880	37.71626923	1.811152123	34.838923	0.23097639	36.976115	2.0035541	36.030962	1.7913669
c1355	58.00275	0.68330151	55.575719	0.1734279	51.783719	4.6019713	43.371125	3.1428113
c1908	45.00288	3.9087384	37.10988	2.117672	46.41908	2.4365908	38.1424	2.3717307
c2670	35.093844	0.49370486	35.467344	0.81697217	35.82275	1.1645069	36.374828	1.6351223
c3540	40.226864	4.3852952	37.301182	4.1002153	36.182636	1.5278051	39.728409	4.0614525
c5315	35.247935	0.39275588	36.458837	0.87743991	35.397415	0.52540702	36.049561	1.11425

c6288	44.355656	0.78669529	43.973094	2.7079828	45.354719	1.6279784	47.244906	1.9575859
c7552	36.698729	1.1617101	37.248888	1.2953801	36.678355	0.87230694	36.403879	0.75341793
Average	41.263195	7.1510998	42.454352	7.8282863	40.457775	7.3299914	39.385096	4.4322016
GSHE								
Benchmark	Highest		Lowest		50/50		Random	
	Highest OCR (%)	Pass/Fail	Highest OCR (%)	Pass/Fail	Highest OCR (%)	Pass/Fail	Highest OCR (%)	Pass/Fail
c432	72.20142857	Pass	77.16285714	Pass	60.66428571	Pass	34.49142857	Fail
c499	N/A	Pass	68.266875	Pass	59.2925	Pass	59.48625	Pass
c880	53.85269231	Pass	50.12538462	Pass	56.86307692	Pass	8.728846154	Fail
c1355	50.13125	Pass	61.4265625	Pass	56.2446875	Pass	57.555625	Pass
c1908	40.124	Fail	51.6248	Pass	38.9188	Fail	51.416	Pass
c2670	51.05625	Pass	53.0034375	Pass	28.14546875	Fail	51.39078125	Pass
c3540	14.05409091	Fail	53.64681818	Pass	50.94363636	Pass	30.08909091	Fail
c5315	2.830081301	Fail	6.518699187	Fail	51.68845528	Pass	50.65430894	Pass
c6288	N/A	Pass	N/A	Pass	55.9725	Pass	55.6459375	Pass
c7552	52.18345794	Pass	12.47775701	Fail	7.647476636	Fail	9.773271028	Fail