

Example Mining Rig (ASIC, FPGA)	First Week's Appearance in Google Trends	Week End-Date of Search Trend	Advertised Hashrate (Mhash/s)	Efficiency (Mhash/s/J)	Efficiency (Mhash/s/s)	Watts	Example Price	Date Highest Price (3rd Party New) on Amazon	Date Lowest Price (3rd Party New) on Amazon	Date Highest Price (3rd Party Used)	Date Lowest Price (3rd Party Used)	Number Needed to Maintain Bitcoin Hashrate	Kilowatt-hours per Year	Annualized Kilowatt Output	Hoover Dam Equivalent
BFL Jaiaepeno BitForce 5 Gh/s SC	2/10/2013	5/4/2013	5,000	167	18.2	30.0	\$274.00	1/25/2014	4/1/2014	5/10/2014	5/14/2014	1,469,953	263	386,303,669	0.092
Avalon ASIC #1	3/9/2013	6/30/2013	66,300	107	51.0	620.0	\$1,299.00					110,856	5,431	602,082,139	0.143
Block Erupter Blade	4/21/2013	3/29/2014	10,752	130	30.7	83.0	\$350.00	5/8/2014	4/13/2014	12/4/2013	12/20/2013	683,572	727	497,011,479	0.118
KnC Jupiter	10/13/2013	3/1/2014	500,000	833	100.1	600.0	\$4,995.00					14,700	5,256	77,260,734	0.018
Block Erupter Sapphire	10/27/2013	12/7/2013	333	131	16.7	2.6	\$20.00	7/1/2013	10/28/2013			22,071,368	22	493,030,209	0.117
Black Arrow Prospero X-3	11/3/2013	2/1/2014	1,344,000	1,792	336.1	750.0	\$3,999.00					5,469	6,570	35,928,541	0.009
RedFury	11/3/2013	3/8/2014	2,600	1,040	4.1	2.5	\$640.00					2,826,833	22	61,907,639	0.015
HashFast Sierra	11/10/2013	12/14/2013	1,200,000	1,143	169.5	1050.0	\$7,080.00					6,125	9,198	56,335,952	0.013
Black Arrow Prospero X-1	11/17/2013	3/22/2014	84,000	1,778	267.8	36.0	\$239.00					114,840	315	36,215,969	0.009
Block Erupter Cube	11/24/2013	4/12/2014	30,000	150	54.5	200.0	\$550.00	12/31/2013	3/25/2014	1/11/2014	5/6/2014	244,992	1,752	429,226,299	0.102
KnC Neptune	11/24/2013	3/8/2014	3,000,000	1,429	230.9	2100.0	\$12,995.00					2,450	18,396	45,068,761	0.011
KnC Saturn	11/24/2013	12/7/2013	250,000	833	83.5	300.0	\$2,995.00					29,399	2,628	77,260,734	0.018
CoinTerra TerraMiner IV	12/8/2013	2/15/2014	2,000,000	909	333.4	2200.0	\$5,999.00					3,675	19,272	70,822,339	0.017
AntMiner U1	1/4/2014	4/27/2014	1,600	800	55.2	2.0	\$29.00	1/10/2014	4/20/2014	2/23/2014	4/25/2014	4,593,603	18	80,479,931	0.019
bi*fury	1/5/2014	1/11/2014	5,000	1,176	23.9	4.3	\$209.00					1,469,953	37	54,726,353	0.013
AntMiner S1	1/11/2014		180,000	500	720.0	360.0	\$249.99	1/10/2014	5/13/2014	1/23/2014	5/5/2014	40,832	3,154	128,767,890	0.031
AntMiner U2+	3/8/2014	5/4/2014	2,000	1,000	117.6	2.0	\$17.00	3/12/2014	4/23/2014	3/22/2014	4/21/2014	3,674,883	18	64,383,945	0.015
AVALON ASIC 80GH/s (Batch 2)			82,000	117	54.7	700.0	\$1,499.00			11/24/2013	2/24/2014	89,631	6,132	549,619,042	0.131
BFL 500 Gh/s Mini Rig SC			500,000	185	22.2	2700.0	\$22,484.00					14,700	23,652	347,673,302	0.083
BFL Monarch BPU 300 C			300,000	1,714	200.4	175.0	\$1,497.00					24,499	1,533	37,557,301	0.009
BFL Monarch BPU 600 C			600,000	1,714	273.2	350.0	\$2,196.00			11/26/2013	5/13/2014	12,250	3,066	37,557,301	0.009
BFL SC 25 Gh/s			25,000	167	20.0	150.0	\$1,249.00					293,991	1,314	386,303,669	0.092
BFL SC 50 Gh/s			50,000	167	50.8	300.0	\$984.00			11/28/2013	5/15/2014	146,995	2,628	386,303,669	0.092
BFL Single SC			60,000	250	46.2	240.0	\$1,299.00			11/26/2013	5/13/2014	122,496	2,102	257,535,780	0.061
Bitcoin Dominator X5000			100	15	0.22	6.8	\$440.00					73,497,654	60	4,378,108,253	1.042
BitForce SHA256 Single			832	10	1.38	80.0	\$599.00					8,833,853	701	6,190,763,933	1.474
Bitkey Valkyrie (4 Modules)			2,800,000	1,667	307.7	1680.0	\$9,100.00					2,625	14,717	38,630,367	0.009
Bitmine.ch Avalon Clone 85GH			85,000	131	13.1	650.0	\$6,489.00					86,468	5,694	492,347,814	0.117
Blue Fury			2,500	1,000	17.9	2.5	\$140.00					2,939,906	22	64,383,945	0.015
Butterflylabs Mini Rig			25,200	20	1.64	1250.0	\$15,295.00					291,657	10,950	3,193,648,061	0.760
CoinTerra GSX I PCIe Card			400,000	889	250.2	450.0	\$1,599.00					18,374	3,942	72,431,938	0.017
HashBuster Micro			20,000	870	29.1	23.0	\$688.00					367,488	201	74,041,537	0.018
HashFast Baby Jet			400,000	1,143	71.4	350.0	\$5,600.00					18,374	3,066	56,335,952	0.013
HashFast Sierra Evo 3			2,000,000	909	294.1	2200.0	\$6,800.00					3,675	19,272	70,822,339	0.017
Icarus			380	20	0.66	19.2	\$569.00					19,341,488	168	3,253,083,532	0.775
KnCMiner Mercury			100,000	400	50.1	250.0	\$1,995.00					73,498	2,190	160,959,862	0.038
Lancelot			400	15	26.0		\$350.00					18,374,414	228	4,184,956,419	0.996
Metabank			120,000	706	55.6	170.0	\$2,160.00					61,248	1,489	91,210,589	0.022
Shimmerline 16 - 18 Th/s			10,000,000	6,361	1,626.0	2475.0	\$8,275.00					480	21,861	10,622,361	0.003
Shimmerline 8 - 9 Th/s			5,000,000	6,361	1,250.0	825.0	\$4,000.00					1,470	7,227	10,622,361	0.003
Shimmerline 4.5 - 4.5 Th/s			2,500,000	6,371	1,416.7	1400.0	\$8,000.00					860	12,264	10,622,478	0.003
ModMiner Quad			800	20	0.75	40.0	\$1,069.00					9,187,207	350	3,219,197,245	0.766
TerraHash DX Large (full)			180,000	141	17.1	1280.0	\$10,500.00					40,832	11,213	457,841,386	0.109
TerraHash DX Mini (full)			90,000	141	15.0	640.0	\$6,000.00					81,664	5,606	457,841,386	0.109
TerraHash Klondike 16			4,500	141	18.0	32.0	\$250.00					1,633,281	280	457,841,386	0.109
TerraHash Klondike 64			18,000	142	20.0	127.0	\$900.00					408,320	1,113	454,264,500	0.108
Twinfury			4,500	1,175	20.8	3.8	\$216.00					1,633,281	34	54,797,891	0.013
X6500 FPGA Miner			400	23	0.7	17.2	\$550.00					18,374,414	151	2,768,509,631	0.659

Example Mining Rig (GPU, CPU)	Hashrate (Mhash/s)	Efficiency (Mhash/J)	TDP/AC P (Watts)	Number Needed to Maintain Bitcoin Hashrate	Kilowatt-hours per Year	Annualized Kilowatt Output	Hoover Dam Equivalent
AMD (CPU) 2x Opteron 6128	32.40	0.141	230	226,844,611	2,015	457,046,522,467	108.821
AMD (CPU) 2x Opteron 6172	55.00	0.239	230	133,632,098	2,015	269,241,951,417	64.105
AMD (CPU) 4x Opteron 6174	115.00	0.359	320	63,911,003	2,803	179,155,324,950	42.656
AMD (CPU) A10-5800K	105.00	1.050	100	69,997,766	876	61,318,042,766	14.600
AMD (CPU) A8-3850	60.00	0.600	100	122,496,090	876	107,306,574,840	25.549
AMD (CPU) A8-3870K	95.00	0.950	100	77,365,952	876	67,772,573,583	16.136
AMD (CPU) Athlon 64 3500+	1.18	0.013	89	6,228,614,746	780	4,856,077,200,38	1,156.209
AMD (CPU) Athlon 64 X2 3800+	1.73	0.027	65	4,248,419,306	569	2,419,049,953,04	575.964
AMD (CPU) Athlon 64 X2 4000+	1.90	0.029	65	3,868,297,579	569	2,202,608,641,45	524.431
AMD (CPU) Athlon 64 X2 4400+	2.09	0.032	65	3,516,634,163	569	2,002,371,492,23	476.755
AMD (CPU) Athlon 64 X2 6000+	2.81	0.022	125	2,615,574,875	1,095	2,864,054,488,61	681.918
AMD (CPU) Athlon 64 X2 6400+ Black Edition	2.90	0.023	125	2,534,401,862	1,095	2,775,170,038,96	660.755
AMD (CPU) Athlon II X2 240e	2.71	0.060	45	2,712,090,554	394	1,069,106,096,19	254.549
AMD (CPU) Athlon II X2 250	5.60	0.086	65	1,312,458,107	569	747,313,646,207	177.932
AMD (CPU) Athlon II X4 630	10.70	0.113	95	686,893,963	832	571,633,155,690	136.103
AMD (CPU) Athlon XP 2000+	0.62	0.009	70	11,854,460,323	613	7,269,155,069,80	1,730.751
AMD (CPU) Ontario C-50	6.20	0.689	9	1,185,446,032	79	93,460,565,183	22.253
AMD (CPU) Phenom II X3 720	3.80	0.040	95	1,934,148,789	832	1,609,598,622,60	383.238
AMD (CPU) Phenom II X3 720	7.20	0.076	95	1,020,800,750	832	849,510,384,150	202.264
AMD (CPU) Phenom II X4 810	5.00	0.053	95	1,469,953,080	832	1,223,294,953,17	291.261
AMD (CPU) Phenom II X4 810	9.50	0.100	95	773,659,516	832	643,839,449,040	153.295
AMD (CPU) Phenom II X4 810	10.50	0.111	95	699,977,657	832	582,521,406,274	138.696
AMD (CPU) Phenom II X4 810	11.50	0.121	95	639,110,035	832	531,867,370,946	126.635
AMD (CPU) Phenom II X4 955	11.00	0.088	125	668,160,491	1,095	731,635,737,545	174.199
AMD (CPU) Phenom II X4 965	12.00	0.086	140	612,480,450	1,226	751,146,023,880	178.844
AMD (CPU) Phenom II X6 1055T	15.84	0.127	125	464,000,341	1,095	508,080,373,295	120.972
AMD (CPU) Phenom II X6 1055T	23.60	0.248	95	311,430,737	832	259,172,659,571	61.708
AMD (CPU) Phenom II X6 1075T	21.30	0.170	125	345,059,408	1,095	377,840,052,254	89.962
AMD (CPU) Phenom II X6 1090T	18.00	0.128	141	408,320,300	1,235	504,340,901,748	120.081
AMD (CPU) Phenom II X6 1100T	22.00	0.176	125	334,080,245	1,095	365,817,868,773	87.099
AMD (CPU) Phenom X4 9950 BE	9.30	0.074	126	790,297,355	1,104	872,298,608,377	207.690
AMD (CPU) Sempron 3000+	0.80	0.013	62	9,187,206,750	543	4,989,755,730,06	1,188.037
AMD (CPU) Turion X2 RM-70	1.90	0.029	65	3,868,297,579	569	2,202,608,641,45	524.431
AMD (CPU) Zacate E-350	11.00	0.611	18	668,160,491	158	105,355,546,207	25.085
AMD ATI 3410	0.89	0.074	12	8,258,163,371	105	868,098,133,537	206.690
AMD ATI 4550	7.23	0.289	25	1,016,565,062	219	222,627,748,631	53.007
AMD ATI 4570M	9.60	0.300	32	765,600,563	280	214,613,149,680	51.098
AMD ATI 4650	31.33	0.653	48	234,591,937	420	98,641,217,855	23.486
AMD ATI 4670	50.00	0.833	60	146,995,308	526	77,260,733,885	18.395
AMD ATI 4730	72.29	0.657	110	101,670,569	964	97,969,759,848	23.326
AMD ATI 4770	72.29	0.904	80	101,670,569	701	71,250,734,435	16.964
AMD ATI 4830	66.12	0.630	105	111,157,976	920	102,243,106,699	24.344
AMD ATI 4850	101.00	0.918	110	72,769,954	964	70,121,128,113	16.696
AMD ATI 4850x2	150.60	0.602	250	48,803,223	2,190	106,879,058,606	25.447
AMD ATI 4860	67.47	0.519	130	108,933,828	1,139	124,053,843,746	29.537
AMD ATI 4870	92.84	0.619	150	79,165,935	1,314	104,024,038,514	24.768
AMD ATI 4870x2	180.72	0.632	286	40,669,353	2,505	101,891,369,204	24.260
AMD ATI 4890	121.50	0.639	190	60,491,896	1,664	100,682,712,196	23.972
AMD ATI 5450	11.99	0.631	19	612,991,276	166	102,026,267,988	24.292
AMD ATI 5550	40.59	1.041	39	181,073,304	342	61,861,883,500	14.729
AMD ATI 5570	102.00	1.360	75	72,056,524	657	47,341,135,959	11.272
AMD ATI 5650	61.20	1.749	35	120,094,206	307	36,820,883,524	8.767
AMD ATI 5670	72.00	1.636	44	102,080,075	385	39,345,744,108	9.368
AMD ATI 5750	154.56	1.458	106	47,552,830	929	44,155,655,796	10.513
AMD ATI 5750 Vapor-X	195.00	1.560	125	37,691,105	1,095	41,271,759,554	9.827
AMD ATI 5770	241.00	2.410	100	30,496,952	876	26,715,329,836	6.361

AMD ATI 5770x2	425.00	1.889	225	17,293,566	1,971	34,085,617,890	8.116
AMD ATI 5830	307.00	2.456	125	23,940,604	1,095	26,214,961,280	6.242
AMD ATI 5830 (127\$)	325.00	1.970	165	22,614,663	1,445	32,687,233,567	7.783
AMD ATI 5850	391.00	2.172	180	18,797,354	1,577	29,639,667,731	7.057
AMD ATI 5850x4	1360.00	1.943	700	5,404,239	6,132	33,138,795,171	7.890
AMD ATI 5870	445.00	2.282	195	16,516,327	1,708	28,213,189,340	6.717
AMD ATI 5870x2 (Ares)	878.00	0.585	1500	8,371,031	13,140	109,995,350,064	26.189
AMD ATI 5870x6	2568.00	2.140	1200	2,862,058	10,512	30,085,955,563	7.163
AMD ATI 5970	802.00	2.311	347	9,164,296	3,040	27,856,893,867	6.633
AMD ATI 6310M	9.82	0.546	18	748,372,406	158	118,003,360,989	28.096
AMD ATI 6450	27.00	1.500	18	272,213,533	158	42,922,629,936	10.220
AMD ATI 6450	37.80	2.224	17	194,438,238	149	28,955,742,417	6.894
AMD ATI 6490M	16.29	0.708	23	451,210,351	201	90,909,861,427	21.645
AMD ATI 6570	86.00	1.955	44	85,462,388	385	32,940,622,974	7.843
AMD ATI 6670	124.00	1.879	66	59,272,302	578	34,268,873,901	8.159
AMD ATI 6750	142.00	0.947	150	51,758,911	1,314	68,011,209,406	16.193
AMD ATI 6790	220.00	1.467	150	33,408,025	1,314	43,898,144,253	10.452
AMD ATI 6850	256.20	1.507	170	28,687,609	1,489	42,721,587,173	10.172
AMD ATI 6870	322.00	1.894	170	22,825,358	1,489	33,991,523,707	8.093
AMD ATI 6870x4	1200.00	8.000	150	6,124,805	1,314	8,047,993,113	1.916
AMD ATI 6930x2	700.00	1.750	400	10,499,665	3,504	36,790,825,659	8.760
AMD ATI 6950	432.00	2.160	200	17,013,346	1,752	29,807,381,900	7.097
AMD ATI 6950x2 CF	731.00	1.828	400	10,054,399	3,504	35,230,612,807	8.388
AMD ATI 6950x4	1316.00	1.513	870	5,584,928	7,621	42,563,854,154	10.134
AMD ATI 6970	385.00	1.964	196	19,090,300	1,717	32,777,281,042	7.804
AMD ATI 6970x3	1243.00	1.243	1000	5,912,925	8,760	51,797,220,357	12.333
AMD ATI 6990	772.00	1.838	420	9,520,422	3,679	35,027,534,792	8.340
AMD ATI 6990x2	1740.00	2.109	825	4,224,003	7,227	30,526,870,429	7.268
AMD ATI 7750	134.00	2.680	50	54,848,996	438	24,023,860,039	5.720
AMD ATI 7770	182.00	2.193	83	40,383,326	727	29,361,908,940	6.991
AMD ATI 7850	329.00	2.193	150	22,339,712	1,314	29,354,382,175	6.989
AMD ATI 7870 XT	485.00	3.089	157	15,154,155	1,375	20,841,813,093	4.962
AMD ATI 7970	825.00	3.855	214	8,908,807	1,875	16,700,805,102	3.976
AMD ATI 7970x3	2050.00	2.412	850	3,585,251	7,446	26,695,782,033	6.356
ARM AllWinner A10(A8)	0.57	0.227	2.5	12,939,727,817	22	283,380,039,190	67.471
ARM Cortex-A8	0.13	0.357	0.35	58,798,123,200	3	180,275,045,731	42.923
ARM Cortex-A8	0.20	0.571	0.35	36,748,827,000	3	112,671,903,582	26.827
ARM Cortex-A9	0.57	1.140	0.5	12,894,325,263	4	56,477,144,653	13.447
ARM Marvel Feroceon (88FR131)	0.20	0.224	0.87	37,691,104,615	8	287,251,446,495	68.393
ARM1176JZ(F)-S	0.20	0.053	3.75	36,748,827,000	33	1,207,198,966,95	287.428
Intel Atom 330	1.80	0.225	8	4,083,203,000	70	286,150,866,240	68.131
Intel Atom D510	2.30	0.077	30	3,195,550,174	263	839,790,585,704	199.950
Intel Atom N230	0.25	0.061	4	29,999,042,449	35	1,051,166,447,41	250.278
Intel Atom N230	0.38	0.094	4	19,599,374,400	35	686,762,078,976	163.515
Intel Atom N230	0.97	0.243	4	7,577,077,732	35	265,500,803,728	63.214
Intel Atom N270	1.19	0.238	5	6,176,273,445	44	270,520,776,908	64.410
Intel Atom N450	1.60	0.246	6.5	4,593,603,375	57	261,559,776,173	62.276
Intel Atom Z520	1.20	0.600	2	6,124,804,500	18	107,306,574,840	25.549
Intel Celeron E330	2.20	0.034	65	3,340,802,455	569	1,902,252,917,61	452.917
Intel Core 2 Duo E5200	6.20	0.086	72	1,185,446,032	631	747,684,521,466	178.020
Intel Core 2 Duo E6850	6.75	0.104	65	1,088,854,133	569	619,993,543,520	147.618
Intel Core 2 Duo E7300	2.52	0.039	65	2,916,573,571	569	1,660,696,991,57	395.404
Intel Core 2 Duo E7300	7.76	0.111	70	947,134,716	613	580,783,008,155	138.282
Intel Core 2 Duo E8200	2.30	0.035	65	3,195,550,174	569	1,819,546,269,02	433.225
Intel Core 2 Duo E8400	6.90	0.106	65	1,065,183,391	569	606,515,423,009	144.408
Intel Core 2 Duo T5450	2.50	0.071	35	2,939,906,160	307	901,375,228,656	214.613
Intel Core 2 Duo T6400	4.20	0.120	35	1,749,944,143	307	536,532,874,200	127.746
Intel Core 2 Duo T7250	4.50	0.129	35	1,633,281,200	307	500,764,015,920	119.230

Intel Core 2 Duo T7450	3.70	0.106	35	1,986,423,081	307	609,037,316,659	145.009
Intel Core 2 Quad Q6600	11.00	0.105	105	668,160,491	920	614,574,019,538	146.327
Intel Core 2 Quad Q9400	11.00	0.116	95	668,160,491	832	556,043,160,535	132.391
Intel Core 2 Quad Q9650	18.67	0.197	95	393,667,134	832	327,609,789,281	78.002
Intel Core i3 530	8.31	0.104	80	884,448,303	701	619,821,370,917	147.577
Intel Core i3 M350	1.48	0.042	35	4,966,057,703	307	1,522,593,291,64	362.522
Intel Core i5 2600K	17.30	0.231	75	424,841,931	657	279,121,148,428	66.457
Intel Core i5 M450	1.80	0.051	35	4,083,203,000	307	1,251,910,039,80	298.074
Intel Core i5-2400	4.50	0.047	95	1,633,281,200	832	1,359,216,614,64	323.623
Intel Core i5-2400	14.00	0.147	95	524,983,243	832	436,891,054,706	104.022
Intel Core i5-2400S	16.60	0.255	65	442,756,952	569	252,105,808,359	60.025
Intel Core i7 2600K	18.60	0.196	95	395,148,677	832	328,842,729,348	78.296
Intel Core i7 620M	6.30	0.180	35	1,166,629,429	307	357,688,582,800	85.164
Intel Core i7 720QM	7.90	0.176	45	930,350,051	394	366,743,989,959	87.320
Intel Core i7 920	19.20	0.098	195	382,800,281	1,708	653,899,440,431	155.690
Intel Core i7 950	5.88	0.039	150	1,249,960,102	1,314	1,642,447,574,08	391.059
Intel Core i7 950	18.90	0.126	150	388,876,476	1,314	510,983,689,714	121.663
Intel Core i7 980x	19.20	0.148	130	382,800,281	1,139	435,932,960,288	103.794
Intel Pentium Dual-Core E5400	2.27	0.035	65	3,237,782,115	569	1,843,593,136,01	438.951
Intel Pentium III (Coppermine)	0.39	0.007	52.2	18,845,552,308	457	8,617,543,394,84	2,051.796
Intel Pentium III mobile	0.30	0.014	21	24,499,218,000	184	4,506,876,143,28	1,073.066
Intel Xeon 3060	2.03	0.031	65	3,620,574,089	569	2,061,554,886,08	490.846
Intel Xeon E5-2690 (dual)	66.00	0.244	270	111,360,082	2,365	263,388,865,516	62.712
Intel Xeon E5335	9.35	0.117	80	786,071,166	701	550,878,672,975	131.162
Intel Xeon E5410	9.80	0.123	80	749,976,061	701	525,583,223,706	125.139
Intel Xeon E5440	7.30	0.091	80	1,006,817,178	701	705,577,478,400	167.995
Intel Xeon E5506	9.60	0.120	80	765,600,563	701	536,532,874,200	127.746
Intel Xeon E5520	6.50	0.081	80	1,130,733,138	701	792,417,783,434	188.671
Intel Xeon E5530	7.14	0.089	80	1,029,378,908	701	721,388,738,420	171.759
Intel Xeon E5620	11.20	0.140	80	656,229,054	701	459,885,320,743	109.497
Intel Xeon E5630 (dual)	8.00	0.100	80	918,720,675	701	643,839,449,040	153.295
Intel Xeon E7220	6.30	0.079	80	1,166,629,429	701	817,573,903,543	194.660
Intel Xeon E7520 (dual)	18.00	0.189	95	408,320,300	832	339,804,153,660	80.906
Intel Xeon Prestonia 2.4 (dual)	2.16	0.017	130	3,402,669,167	1,139	3,874,959,647,00	922.609
Intel Xeon W3680	18.00	0.138	130	408,320,300	1,139	464,995,157,640	110.713
Intel Xeon X5355 (dual)	10.13	0.084	120	725,544,462	1,051	762,692,338,448	181.593
Intel Xeon X5355 (dual)	22.76	0.190	120	322,924,666	1,051	339,458,408,984	80.823
Nvidia 320M (Mac mini 2010)	7.00	0.350	20	1,049,966,486	175	183,954,128,297	43.799
Nvidia 8400 GS	1.60	0.013	128	4,593,603,375	1,121	5,150,715,592,32	1,226.361
Nvidia 8800 GTS	18.70	0.125	150	393,035,583	1,314	516,448,755,914	122.964
Nvidia 8800 GTS	33.50	0.223	150	219,395,982	1,314	288,286,320,466	68.640
Nvidia 8800GT	24.50	0.233	105	299,990,424	920	275,931,192,446	65.698
Nvidia 8800GT	25.00	0.238	105	293,990,616	920	270,412,568,597	64.384
Nvidia 8800GT	31.10	0.296	105	236,326,862	920	217,373,447,425	51.756
Nvidia 8800GT	31.80	0.303	105	231,124,698	920	212,588,497,325	50.616
Nvidia 8800GT	34.00	0.324	105	216,169,571	920	198,832,771,027	47.341
Nvidia 8800GTS	16.80	0.109	154	437,486,036	1,349	590,186,161,620	140.521
Nvidia 9400GT	3.37	0.067	50	2,180,939,288	438	955,251,408,071	227.441
Nvidia 9400M (MacBook)	1.90	0.317	6	3,868,297,579	53	203,317,720,749	48.409
Nvidia 9500GT	6.75	0.135	50	1,088,854,133	438	476,918,110,400	113.552
Nvidia 9500GT	7.10	0.142	50	1,035,178,225	438	453,408,062,704	107.954
Nvidia 9500GT	7.30	0.146	50	1,006,817,178	438	440,985,924,000	104.997
Nvidia 9600GSO	19.88	0.237	84	369,706,509	736	272,044,837,623	64.773
Nvidia 9600GSO512	11.75	0.131	90	625,511,949	788	493,153,620,541	117.418
Nvidia 9600GT	15.66	0.165	95	469,333,678	832	390,579,486,966	92.995
Nvidia 9800GT	30.36	0.289	105	242,087,134	920	222,671,746,209	53.017
Nvidia 9800GT EE	19.70	0.263	75	373,084,538	657	245,116,541,513	58.361
Nvidia 9800GT OC	29.50	0.281	105	249,144,590	920	229,163,193,726	54.563

Nvidia 9800GTX	32.54	0.232	140	225,868,636	1,226	277,005,294,608	65.954
Nvidia 9800GTX+	32.60	0.233	140	225,452,926	1,226	276,495,468,913	65.832
Nvidia 9800GTX+	37.23	0.266	140	197,415,133	1,226	242,109,919,059	57.645
Nvidia 9800GTX+	40.20	0.287	140	182,829,985	1,226	224,222,693,696	53.386
Nvidia 9800GTX+	35.39	0.251	141	207,679,158	1,235	256,516,988,739	61.075
Nvidia 9800GX2	28.00	0.142	197	262,491,621	1,726	452,987,040,932	107.854
Nvidia 9800GX2	57.83	0.294	197	127,092,606	1,726	219,326,251,878	52.221
Nvidia G210	3.38	0.111	30.5	2,174,486,805	267	580,979,384,489	138.328
Nvidia G210	3.79	0.124	30.5	1,939,252,084	267	518,129,371,919	123.364
Nvidia GT 330M (Sony Vaio Z)	7.80	0.300	26	942,277,615	228	214,613,149,680	51.098
Nvidia GT220	10.80	0.084	128	680,533,833	1,121	763,068,976,640	181.683
Nvidia GT230	15.50	0.161	96	474,178,413	841	398,765,078,115	94.944
Nvidia GT240	19.37	0.281	69	379,440,650	604	229,349,106,782	54.607
Nvidia GT240 OC	25.60	0.366	70	287,100,211	613	176,049,849,347	41.917
Nvidia GT240M	9.80	0.426	23	749,976,061	201	151,105,176,816	35.977
Nvidia GT430	20.24	0.413	49	363,130,702	429	155,870,222,347	37.112
Nvidia GT530	17.90	0.358	50	410,601,419	438	179,843,421,520	42.820
Nvidia GTS 350M (Toshiba A665-3DV)	17.00	1.214	14	432,339,141	123	53,022,072,274	12.624
Nvidia GTS250	35.20	0.243	145	208,800,153	1,270	265,217,954,860	63.147
Nvidia GTS250	35.39	0.244	145	207,679,158	1,270	263,794,066,433	62.808
Nvidia GTS250 OC	37.00	0.255	145	198,642,308	1,270	252,315,459,759	60.075
Nvidia GTS450	45.28	0.427	106	162,318,140	929	150,722,132,505	35.886
Nvidia GTS450	45.28	0.427	106	162,318,140	929	150,722,132,505	35.886
Nvidia GTX 560M	39.30	0.524	75	187,016,931	657	122,870,123,863	29.255
Nvidia GTX260	44.00	0.242	182	167,040,123	1,594	266,315,408,467	63.408
Nvidia GTX260	35.91	0.178	202	204,671,830	1,770	362,170,895,868	86.231
Nvidia GTX260c216	40.40	0.236	171	181,924,886	1,498	272,516,202,440	64.885
Nvidia GTX260c216	47.40	0.260	182	155,058,342	1,594	247,212,615,454	58.860
Nvidia GTX275	50.75	0.232	219	144,822,964	1,918	277,834,166,187	66.151
Nvidia GTX280	46.84	0.198	236	156,912,156	2,067	324,393,915,400	77.237
Nvidia GTX280	64.34	0.263	245	114,233,220	2,146	245,167,337,605	58.373
Nvidia GTX285	53.35	0.262	204	137,765,050	1,787	246,191,654,366	58.617
Nvidia GTX295	89.78	0.311	289	81,864,172	2,532	207,250,613,469	49.345
Nvidia GTX295	117.30	0.406	289	62,657,847	2,532	158,627,110,633	37.768
Nvidia GTX295	120.70	0.418	289	60,892,837	2,532	154,158,741,319	36.704
Nvidia GTX460	68.31	0.427	160	107,594,282	1,402	150,804,145,581	35.906
Nvidia GTX460 (2 cards)	102.00	0.319	320	72,056,524	2,803	201,988,846,758	48.093
Nvidia GTX460 (2 cards) OC	127.00	0.374	340	57,872,169	2,978	172,366,466,672	41.040
Nvidia GTX460 1GB (evga)	83.10	0.519	160	88,444,830	1,402	123,964,274,183	29.515
Nvidia GTX460 1GB OC (2x MsiHawksSLI)	158.00	0.658	240	46,517,503	2,102	97,798,397,323	23.285
Nvidia GTX460SE	56.39	0.376	150	130,338,099	1,314	171,264,262,025	40.777
Nvidia GTX465	64.41	0.322	200	114,109,073	1,752	199,919,096,116	47.600
Nvidia GTX470	81.98	0.381	215	89,653,152	1,883	168,852,746,455	40.203
Nvidia GTX470	111.90	0.520	215	65,681,550	1,883	123,704,630,513	29.453
Nvidia GTX480	101.28	0.405	250	72,568,774	2,190	158,925,614,396	37.839
Nvidia GTX560 Ti	67.70	0.398	170	108,563,743	1,489	161,673,126,051	38.494
Nvidia GTX560 Ti	74.00	0.435	170	99,321,154	1,489	147,909,062,617	35.216
Nvidia GTX560 Ti	74.80	0.416	180	98,258,896	1,577	154,934,626,774	36.889
Nvidia GTX560 Ti	81.00	0.450	180	90,737,844	1,577	143,075,433,120	34.066
Nvidia GTX560 Ti	100.00	0.500	200	73,497,654	1,752	128,767,889,808	30.659
Nvidia GTX570	105.83	0.483	219	69,448,790	1,918	133,233,335,859	31.722
Nvidia GTX570	140.00	0.639	219	52,498,324	1,918	100,714,885,243	23.980
Nvidia GTX570	157.00	0.717	219	46,813,792	1,918	89,809,451,809	21.383
Nvidia GTX580	156.60	0.642	244	46,933,368	2,137	100,317,257,705	23.885
Nvidia GTX580x2	292.00	1.197	244	25,170,429	2,137	53,800,282,728	12.810
Nvidia GTX670	112.00	1.120	100	65,622,905	876	57,485,665,093	13.687
Nvidia GTX680	120.00	1.200	100	61,248,045	876	53,653,287,420	12.775
Nvidia ION	1.80	0.067	27	4,083,203,000	237	965,759,173,560	229.943

Nvidia Quadro 5000	67.70	0.445	152	108,563,743	1,332	144,554,795,058	34.418
Nvidia Quadro FX 1600M	6.00	0.120	50	1,224,960,900	438	536,532,874,200	127.746
Nvidia Quadro FX 2000M	23.00	0.397	58	319,555,017	508	162,359,513,236	38.657
Nvidia Quadro FX 2800M	22.00	0.293	75	334,080,245	657	219,490,721,264	52.260
Nvidia Quadro FX 3600M	36.00	0.514	70	204,160,150	613	125,191,003,980	29.807
Nvidia Quadro FX 580	5.70	0.143	40	1,289,432,526	350	451,817,157,221	107.576
Nvidia Quadro NVS 135M	1.05	0.105	10	6,999,776,571	88	613,180,427,657	145.995
Nvidia Quadro NVS 295	1.70	0.074	23	4,323,391,412	201	871,076,901,642	207.399
Nvidia Quadro NVS 3100M	3.60	0.257	14	2,041,601,500	123	250,382,007,960	59.615
Nvidia Tesla S1070	155.20	0.194	800	47,356,736	7,008	331,876,004,660	79.018
Sony Playstation 3 (FAT) CPUCell	26.60	0.443	60	276,306,970	526	145,226,943,392	34.578
Sony Playstation 3 (SLIM) Cell CPU	21.00	0.600	35	349,988,829	307	107,306,574,840	25.549
VIA Eden CPU	1.30	0.163	8	5,653,665,692	70	396,208,891,717	94.335

MINING DATA		
Bitcoin Mining Hash Rate (5/21/2014):	73,497,654	GH/s
Hoover Dam Yearly Output (1947 through 2008):	4,200,000,000	Kilowatt-hours
Bitcoin Difficulty (5/21/2014):	8,853,416,309	
Bitcoins Rewarded per Block (until approx. Aug 2016):	25	
Conversion rate (USD/BTC) (5/21/2104):	491	
Average time in seconds to find a hash:	517,365,269	
Annualized blocks per year:	0.06099675	
Estimated Watt per GH:	650	Watts
Total Watts used:	47,773,475,100	Watts
Total Wattage Per Day:	1,146,563,402,400	Watt-hours
TRANSACTION DATA		
Number of transaction per day:	20,000	
Transaction volume per day:	\$4,200,000.00	
NETWORK COST		
Estimated cost per Watt:	\$0.15	USD/Kilowatt-hour
Total cost per day:	\$171,984,510.36	
Total cost per year:	\$62,817,342,408.99	
Average value per transaction:	\$210.00	USD/transaction
Current transaction fee:	\$0.25	
Actual cost per transaction:	\$8,599.23	USD/transaction
Transaction cost per USD sent:	\$0.02	USD/USD
Transaction cost per USD sent %:	2.44%	
MINING FEE		
Based on number of transactions:	4,911	
Based on transferred value:	102,567	

Example Country/Territory	USD/kWh (Lower)	USD/kWh (Upper)	Average High Temp (Celcius)	Average Low Temp (Celcius)	Annualized Cost of Most Efficient Rig
Argentina (Buenos Aires)	\$0.03	\$0.03	22.7	10.1	\$318,144.19
Australia	\$0.22	\$0.40	23.6	11.8	\$4,241,922.58
Belgium	\$0.29	\$0.29	12.6	5.2	\$3,075,393.87
Bhutan	\$0.02	\$0.04	21.0	10.3	\$424,192.26
Brazil	\$0.16	\$0.16	30.8	19.9	\$1,696,769.03
Bulgaria	\$0.16	\$0.16	14.8	6.0	\$1,696,769.03
Cambodia	\$0.16	\$0.21	31.7	22.7	\$2,227,009.35
Canada, Quebec	\$0.07	\$0.09	8.6	-1.6	\$954,432.58
Chile	\$0.23	\$0.23	17.2	8.0	\$2,439,105.48
China	\$0.08	\$0.11	16.5	6.2	\$1,166,528.71
Colombia (Bogota)	\$0.18	\$0.18	27.6	20.2	\$1,908,865.16
Croatia	\$0.18	\$0.18	16.6	8.7	\$1,908,865.16
Denmark	\$0.40	\$0.40	10.5	5.0	\$4,241,922.58
Egypt	\$0.01	\$0.10	27.8	16.1	\$1,060,480.64
Fiji	\$0.12	\$0.14	28.4	21.8	\$1,484,672.90
Finland	\$0.21	\$0.21	6.1	-0.4	\$2,227,009.35
France	\$0.19	\$0.19	15.8	7.4	\$2,014,913.22
Germany	\$0.36	\$0.36	11.7	4.4	\$3,817,730.32
Guyana	\$0.27	\$0.27	30.1	21.9	\$2,863,297.74
Hungary	\$0.23	\$0.23	14.2	5.6	\$2,439,105.48
Iceland	\$0.09	\$0.10	5.8	1.0	\$1,060,480.64
India	\$0.08	\$0.12	29.9	18.6	\$1,272,576.77
Indonesia	\$0.09	\$0.09	30.3	22.3	\$954,432.58
Iran	\$0.02	\$0.19	22.6	10.2	\$2,014,913.22
Ireland	\$0.28	\$0.28	12.9	6.7	\$2,969,345.80
Israel	\$0.18	\$0.18	25.0	14.1	\$1,908,865.16
Italy	\$0.28	\$0.28	17.7	9.5	\$2,969,345.80
Jamaica	\$0.45	\$0.45	29.5	22.4	\$4,772,162.90
Japan	\$0.20	\$0.24	17.6	10.1	\$2,545,153.55
Jordan	\$0.05	\$0.33	23.7	13.3	\$3,499,586.13
Kiribati	\$0.33	\$0.33	30.5	24.8	\$3,499,586.13
Kuwait	\$0.01	\$0.01	32.0	19.0	\$106,048.06
Laos	\$0.04	\$0.12	29.8	19.7	\$1,272,576.77
Latvia	\$0.18	\$0.18	9.1	3.2	\$1,908,865.16
Lithuania	\$0.19	\$0.19	9.7	2.6	\$2,014,913.22
Macedonia	\$0.04	\$0.07	16.3	6.5	\$742,336.45
Malaysia	\$0.07	\$0.15	30.3	22.3	\$1,590,720.97
Marshall Islands	\$0.29	\$0.37	29.8	24.8	\$3,923,778.38
Mexico	\$0.19	\$0.19	28.1	13.1	\$2,014,913.22
Moldova	\$0.11	\$0.11	14.2	5.3	\$1,166,528.71
Myanmar	\$0.04	\$0.04	30.3	20.0	\$424,192.26
Nepal	\$0.07	\$0.11	24.0	11.5	\$1,166,528.71

Netherlands	\$0.29	\$0.29	12.5	6.1	\$3,075,393.87
New Caledonia	\$0.26	\$0.63	26.9	19.6	\$6,681,028.06
New Zealand	\$0.19	\$0.19	16.9	7.6	\$2,014,913.22
Nigeria	\$0.03	\$0.17	31.0	21.9	\$1,802,817.10
Norway	\$0.16	\$0.16	6.7	1.0	\$1,696,769.03
Pakistan	\$0.02	\$0.15	28.4	14.9	\$1,590,720.97
Palau	\$0.23	\$0.23	30.3	23.8	\$2,439,105.48
Papua New Guinea	\$0.20	\$0.39	29.2	20.6	\$4,135,874.51
Paraguay	\$0.08	\$0.08	27.8	17.2	\$848,384.52
Perú	\$0.10	\$0.10	22.8	11.4	\$1,060,480.64
Philippines	\$0.36	\$0.36	30.2	22.6	\$3,817,730.32
Portugal	\$0.25	\$0.25	20.1	12.2	\$2,651,201.61
Romania	\$0.18	\$0.18	13.6	4.7	\$1,908,865.16
Russia	\$0.02	\$0.14	3.6	-4.9	\$1,484,672.90
Saudi Arabia	\$0.01	\$0.07	30.4	18.6	\$742,336.45
Serbia	\$0.04	\$0.13	15.1	5.7	\$1,378,624.84
Singapore	\$0.21	\$0.21	30.2	23.7	\$2,227,009.35
Solomon Islands	\$0.88	\$0.99	29.7	22.7	\$10,498,758.38
South Africa	\$0.08	\$0.16	23.0	10.6	\$1,696,769.03
Spain	\$0.23	\$0.23	20.7	11.2	\$2,439,105.48
Surinam	\$0.04	\$0.05	29.5	23.5	\$530,240.32
Sweden	\$0.27	\$0.27	7.9	0.9	\$2,863,297.74
Switzerland	\$0.25	\$0.25	10.4	2.1	\$2,651,201.61
Taiwan	\$0.07	\$0.17	24.7	18.6	\$1,802,817.10
Thailand	\$0.06	\$0.13	31.6	22.0	\$1,378,624.84
Tonga	\$0.47	\$0.47	24.0	25.7	\$4,984,259.03
Turkey	\$0.13	\$0.19	17.8	7.0	\$2,014,913.22
Turks and Caicos Islands	\$0.49	\$0.49	28.0	25.0	\$5,196,355.16
Tuvalu	\$0.37	\$0.37	30.0	26.0	\$3,923,778.38
Ukraine	\$0.03	\$0.04	12.6	4.4	\$424,192.26
United Kingdom	\$0.20	\$0.20	12.9	6.0	\$2,120,961.29
United States	\$0.08	\$0.37	17.2	9.7	\$3,923,778.38
Uruguay	\$0.17	\$0.26	22.3	11.8	\$2,757,249.67
Uzbekistan	\$0.05	\$0.05	19.8	6.8	\$530,240.32
Vanuatu	\$0.20	\$0.52	27.1	21.1	\$5,514,499.35
Venezuela	\$0.00	\$0.03	29.7	20.4	\$318,144.19
Vietnam	\$0.06	\$0.10	28.4	20.9	\$1,060,480.64
	\$0.00	\$0.01	3.60	-4.90	
	\$0.88	\$0.99	32.00	26.00	