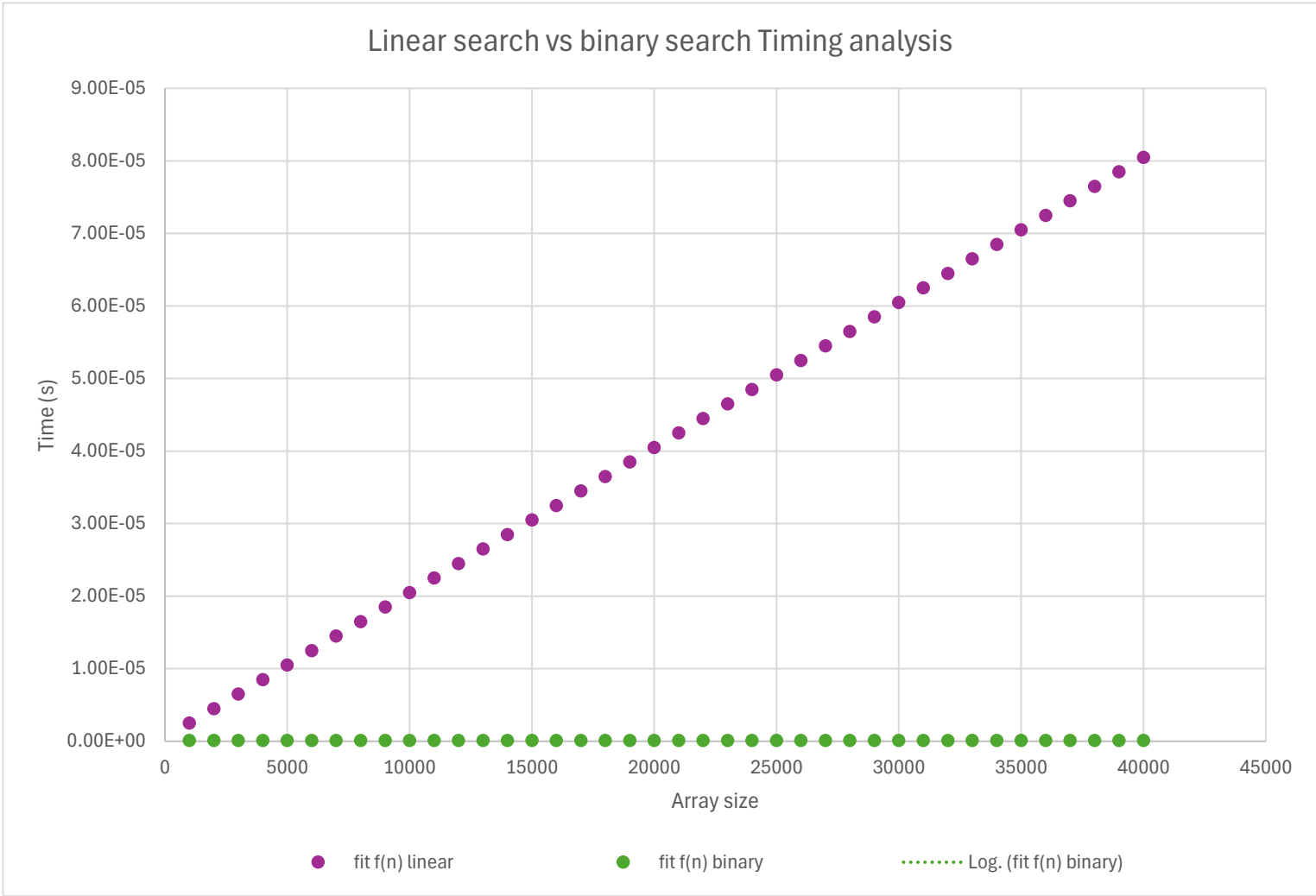


r^0	Size(n)	log(n,2)	Linear search	Binary search	f(n) BigO(n)	f(n) BigO(log n)	fit f(n)		+Delta Above	
			time(s)	time(s)	linear	binary	linear	binary	linear	binary
1	1000	9.9658	3.26E-06	1.00E-07	2.00E-06	9.97E-12	2.50E-06	1.00E-07	7.56E-07	-9.97E-12
1	2000	10.9658	5.26E-06	9.60E-08	4.00E-06	1.10E-11	4.50E-06	1.00E-07	7.58E-07	-4.01E-09
1	3000	11.5507	7.31E-06	1.10E-07	6.00E-06	1.16E-11	6.50E-06	1.00E-07	8.07E-07	9.99E-09
1	4000	11.9658	9.67E-06	1.09E-07	8.00E-06	1.20E-11	8.50E-06	1.00E-07	1.17E-06	8.99E-09
1	5000	12.2877	1.21E-05	1.10E-07	1.00E-05	1.23E-11	1.05E-05	1.00E-07	1.56E-06	9.99E-09
1	6000	12.5507	1.37E-05	9.10E-08	1.20E-05	1.26E-11	1.25E-05	1.00E-07	1.22E-06	-9.01E-09
1	7000	12.7731	1.63E-05	9.60E-08	1.40E-05	1.28E-11	1.45E-05	1.00E-07	1.84E-06	-4.01E-09
1	8000	12.9658	1.83E-05	8.90E-08	1.60E-05	1.30E-11	1.65E-05	1.00E-07	1.81E-06	-1.10E-08
1	9000	13.1357	2.28E-05	9.30E-08	1.80E-05	1.31E-11	1.85E-05	1.00E-07	4.26E-06	-7.01E-09
1	10000	13.2877	3.08E-05	9.70E-08	2.00E-05	1.33E-11	2.05E-05	1.00E-07	1.03E-05	-3.01E-09
1	11000	13.4252	2.52E-05	8.70E-08	2.20E-05	1.34E-11	2.25E-05	1.00E-07	2.74E-06	-1.30E-08
1	12000	13.5507	2.77E-05	9.80E-08	2.40E-05	1.36E-11	2.45E-05	1.00E-07	3.18E-06	-2.01E-09
1	13000	13.6662	3.04E-05	9.80E-08	2.60E-05	1.37E-11	2.65E-05	1.00E-07	3.90E-06	-2.01E-09
1	14000	13.7731	3.26E-05	9.20E-08	2.80E-05	1.38E-11	2.85E-05	1.00E-07	4.08E-06	-8.01E-09
1	15000	13.8727	3.54E-05	8.70E-08	3.00E-05	1.39E-11	3.05E-05	1.00E-07	4.88E-06	-1.30E-08
1	16000	13.9658	3.82E-05	1.21E-07	3.20E-05	1.40E-11	3.25E-05	1.00E-07	5.68E-06	2.10E-08
1	17000	14.0532	3.98E-05	1.18E-07	3.40E-05	1.41E-11	3.45E-05	1.00E-07	5.32E-06	1.80E-08
1	18000	14.1357	4.12E-05	1.24E-07	3.60E-05	1.41E-11	3.65E-05	1.00E-07	4.68E-06	2.40E-08
1	19000	14.2137	4.33E-05	1.22E-07	3.80E-05	1.42E-11	3.85E-05	1.00E-07	4.82E-06	2.20E-08
1	20000	14.2877	4.64E-05	1.23E-07	4.00E-05	1.43E-11	4.05E-05	1.00E-07	5.86E-06	2.30E-08
1	21000	14.3581	5.19E-05	1.27E-07	4.20E-05	1.44E-11	4.25E-05	1.00E-07	9.39E-06	2.70E-08
1	22000	14.4252	6.11E-05	1.38E-07	4.40E-05	1.44E-11	4.45E-05	1.00E-07	1.66E-05	3.80E-08
1	23000	14.4893	5.50E-05	1.39E-07	4.60E-05	1.45E-11	4.65E-05	1.00E-07	8.46E-06	3.90E-08
1	24000	14.5507	5.64E-05	1.40E-07	4.80E-05	1.46E-11	4.85E-05	1.00E-07	7.86E-06	4.00E-08
1	25000	14.6096	5.73E-05	1.39E-07	5.00E-05	1.46E-11	5.05E-05	1.00E-07	6.77E-06	3.90E-08
1	26000	14.6662	6.06E-05	1.28E-07	5.20E-05	1.47E-11	5.25E-05	1.00E-07	8.13E-06	2.80E-08
1	27000	14.7207	6.40E-05	1.29E-07	5.40E-05	1.47E-11	5.45E-05	1.00E-07	9.47E-06	2.90E-08
1	28000	14.7731	6.45E-05	1.38E-07	5.60E-05	1.48E-11	5.65E-05	1.00E-07	8.05E-06	3.80E-08
1	29000	14.8238	6.68E-05	1.37E-07	5.80E-05	1.48E-11	5.85E-05	1.00E-07	8.27E-06	3.70E-08
1	30000	14.8727	7.14E-05	1.29E-07	6.00E-05	1.49E-11	6.05E-05	1.00E-07	1.09E-05	2.90E-08
1	31000	14.9200	7.56E-05	1.25E-07	6.20E-05	1.49E-11	6.25E-05	1.00E-07	1.31E-05	2.50E-08
1	32000	14.9658	7.38E-05	1.22E-07	6.40E-05	1.50E-11	6.45E-05	1.00E-07	9.30E-06	2.20E-08
1	33000	15.0102	7.72E-05	1.27E-07	6.60E-05	1.50E-11	6.65E-05	1.00E-07	1.07E-05	2.70E-08
1	34000	15.0532	8.08E-05	1.14E-07	6.80E-05	1.51E-11	6.85E-05	1.00E-07	1.23E-05	1.40E-08
1	35000	15.0951	8.29E-05	1.27E-07	7.00E-05	1.51E-11	7.05E-05	1.00E-07	1.24E-05	2.70E-08
1	36000	15.1357	8.51E-05	1.31E-07	7.20E-05	1.51E-11	7.25E-05	1.00E-07	1.26E-05	3.10E-08
1	37000	15.1752	9.10E-05	1.16E-07	7.40E-05	1.52E-11	7.45E-05	1.00E-07	1.65E-05	1.60E-08
1	38000	15.2137	9.10E-05	1.21E-07	7.60E-05	1.52E-11	7.65E-05	1.00E-07	1.45E-05	2.10E-08
1	39000	15.2512	9.28E-05	1.23E-07	7.80E-05	1.53E-11	7.85E-05	1.00E-07	1.43E-05	2.30E-08
1	40000	15.2877	9.32E-05	1.20E-07	8.00E-05	1.53E-11	8.05E-05	1.00E-07	1.27E-05	2.00E-08



	Cl0 =	5.00E-07		Cb0 =	1.00E-07	
	cl1 =	2.00E-09		Cb1 =	1.00E-12	
						linear search
						f(n) =c0*x^0 + c1*x^1
						binary search
			linear	binary		f(n) =c0*x^0 + c1 *log(x^1,2)
			search	search	fit f(n)	
r^0	Size(n)	log(n,2)	opns	opns	linear	binary
1	1000	9.9658	3.26E-06	1.00E-07	2.50E-06	1.00E-07
1	15000	13.8727	3.54E-05	8.70E-08	3.05E-05	1.00E-07
1	31000	14.9200	7.56E-05	1.25E-07	6.25E-05	1.00E-07
1	40000	15.2877	9.32E-05	1.20E-07	8.05E-05	1.00E-07

Binary search grows logarithmically (O(log n))