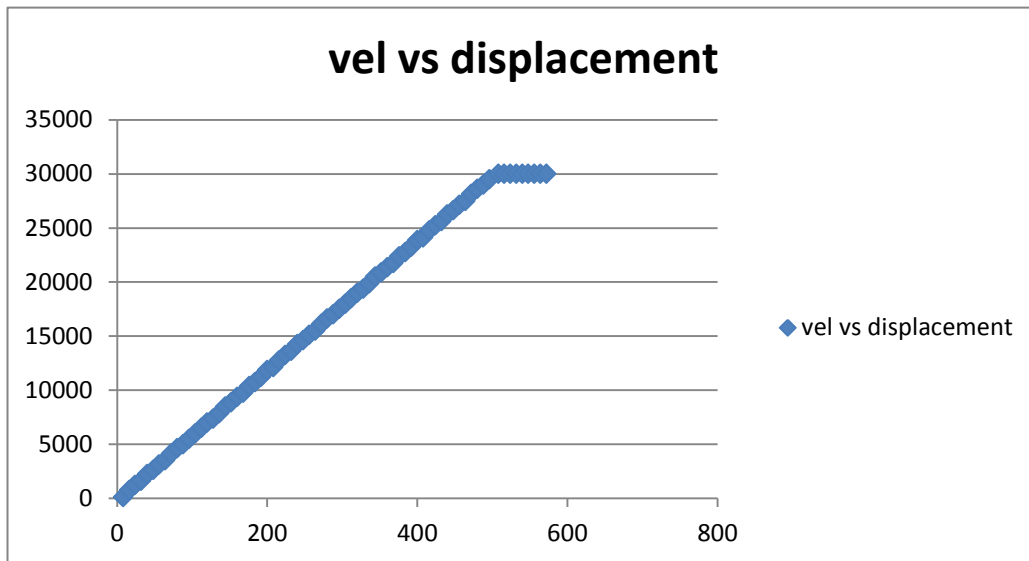


target	time	float	int travel	int travel		
array[]	block	travel abs	relative	abs	velocity	
		0	0	0	0	
	0	8	1.92	1	1	125
	1	16	7.68	6	7	750
	2	24	17.28	10	17	1250
	3	32	30.72	13	30	1625
	4	40	48	18	48	2250
	5	48	69.12	21	69	2625
	6	56	94.08	25	94	3125
	7	64	122.88	28	122	3500
	8	72	155.52	33	155	4125
	9	80	192	37	192	4625
	10	88	232.32	40	232	5000
	11	96	276.48	44	276	5500
	12	104	324.48	48	324	6000
	13	112	376.32	52	376	6500
	14	120	432	56	432	7000
	15	128	491.52	59	491	7375
	16	136	554.88	63	554	7875
	17	144	622.08	68	622	8500
	18	152	693.12	71	693	8875
	19	160	768	75	768	9375
	20	168	846.72	78	846	9750
	21	176	929.28	83	929	10375
	22	184	1015.68	86	1015	10750
	23	192	1105.92	90	1105	11250
	24	200	1200	95	1200	11875
	25	208	1297.92	97	1297	12125
	26	216	1399.68	102	1399	12750
	27	224	1505.28	106	1505	13250
	28	232	1614.72	109	1614	13625
	29	240	1728	114	1728	14250
	30	248	1845.12	117	1845	14625
	31	256	1966.08	121	1966	15125
	32	264	2090.88	124	2090	15500
	33	272	2219.52	129	2219	16125
	34	280	2352	133	2352	16625
	35	288	2488.32	136	2488	17000
	36	296	2628.48	140	2628	17500
	37	304	2772.48	144	2772	18000
	38	312	2920.32	148	2920	18500
	39	320	3072	152	3072	19000
	40	328	3227.52	155	3227	19375
	41	336	3386.88	159	3386	19875
	42	344	3550.08	164	3550	20500
	43	352	3717.12	167	3717	20875
	44	360	3888	171	3888	21375
	45	368	4062.72	174	4062	21750
	46	376	4241.28	179	4241	22375

47	384	4423.68	182	4423	22750
48	392	4609.92	186	4609	23250
49	400	4800	191	4800	23875
50	408	4993.92	193	4993	24125
51	416	5191.68	198	5191	24750
52	424	5393.28	202	5393	25250
53	432	5598.72	205	5598	25625
54	440	5808	210	5808	26250
55	448	6021.12	213	6021	26625
56	456	6238.08	217	6238	27125
57	464	6458.88	220	6458	27500
58	472	6683.52	225	6683	28125
59	480	6912	229	6912	28625
60	488	7144.32	232	7144	29000
61	496	7380.48	236	7380	29500
	508	7620	240	7620	30000
	516		240	7860	30000
	524		240	8100	30000
	532		240	8340	30000
	540		240	8580	30000
	548		240	8820	30000
	556		240	9060	30000
	564		240	9300	30000
	572		240	9540	30000



encoder	2000 counts /	rpm
vmax	30000 counts /	sec
accel	60000 counts /	sec/sec

block rate	$255/v_{\max}$	8ms
block interval	$v_{\max}/(\text{accel} \cdot \text{block rate})$	62
abs travel =	$\text{accel} \cdot t \cdot t / 2$	