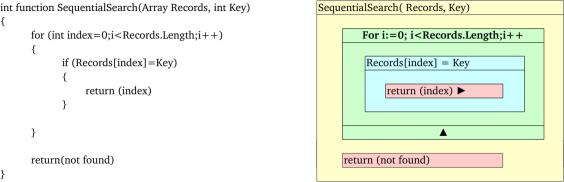
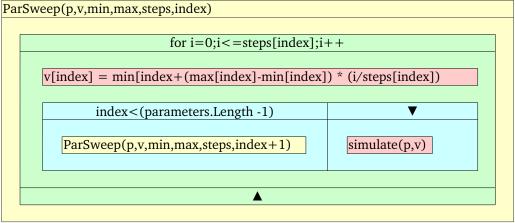
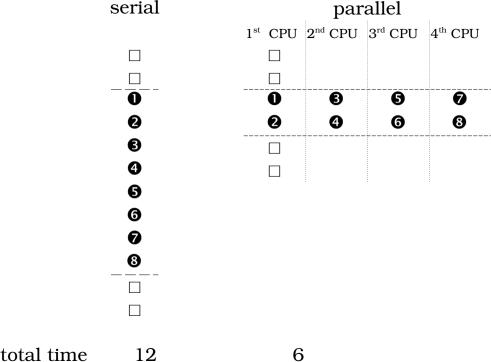
Genetic Algorithm							
generate initial population							
_							
▼							
test the population for quality							
select individual to reproduce							
produce new variations of individuals							
replace old individuals with new one – new generation							
while not satisfied							

```
test population(model,p)
                              for i=1 to n
          M(p_i) = simulate (model, parameters = p_i)
          q_i = \sum_{j=1}^{m} (M(t_j, p_i) - data(t_j))^2
```

return(q)



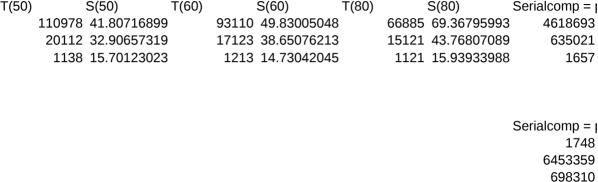




	tot	al time s pa	aralelizable		fraction alpha	theoretical spe
	mysinc	73	20		0.726027397	1.377358491
	MatejakAB201	211	197		0.066350711	15.07142857
	Meurs	118	116		0.016949153	59
	Hummod	721657	721243		0.00057368	1743.13285
		193895	193703		0.000990227	1009.869792
	Hummod 10	847917	845454		0.002904765	344.2618758
	Hummod 20	432509	430076			177.7677764
nove mere	ni ga na physiome, w	orker na meta	acioudu			
	Hummod 1	1217208	1215144		0.001695684	589.7325581
	Meurs	104557	104328		0.002190193	456.580786
	hummod	112776				
	T1		>	Т3	T4	
nove mere	ni ga na physiome, w			request	sim	gaoverhead
nove mere	Hummod	4639676	4639265	4618282		~
	Meurs	661817	661490	634694		
	MatejakAB201	17868	17610	1399		
	•					
nove mere	ni ga na physiome, v	orker na phys	siome gen. 10	00 population	120	
	T1	T2	2	Т3	T4	gaoverhead
	MatejakAB201	2893	2373	1228	1149	520
	Hummod	6463217	6460937	6451079	6458253	2280
	Meurs	699631	699228	697907	696948	403
protokol pr	a taat na 16 praacca	rouniah atrajiah				
protokoi pi	o test na 16 proceso					
O+0	5 5	80				
2*3	6	96				
04040	7 7	112				
2*2*2	8	128				
3*3*3	9	144				
2*5	10	160				
2*2*5	20	320				
2*3*5	30	480				
2*2*2*5	40	640				
spolecny jr	men 7560					
pofdle gust	tafsona 640 populatio	on, 20 generat	ions			
	Τ/9	20) T	2(00)	hota	C(00)	S(160) theorem
	HumMod	30) T2 544539	` '	beta 0.004310069	S(80)	S(160) theorem 159.3146992
	Meurs	90991				155.9704366
	MatejakAB201	11378				125.0222359
	•					
pofdle gus	tafsona 640 popul T(` '	beta	S(160)	S
	hummod	286657				161.8546207
	meurs	96000		0.010416667		68.93927083
		151282	1/732/	0.02616306	166 0400726	

eedup	overhead								
	59152	S(40) 20.57763051 14.6602636							
	20983 26796	Network over 0.004522514 0.040488534 0.907264383	0.995019049 0.958659267	8.8584E-005 0.000494094	2023.905199)	466241 75938 2386		
gaoverhead% 0.17974421 0.000352766 0.000576018	1145 9858	Network over 0.395782924 0.001525247 0.001888138	0.397165572 0.999231961	0.17974421 0.000352766	2834.744298	3	1510		
S(80) podle an 85.20374115 72.73433636 15.70399016	ndahl	h 64 population T(1) 34840000 5089230 189860	T2(1) 34744960 5066250	s hummod 16 p S(80) 63.98072498 55.93113605 16.68658815		tions			
				S(160) 121.5389821 53.0128125 12.55007205					

S(10)	T(20))	S(20)	T(30)		S(30)	T(40)		S(40)
9.9512398	809	226941	20.44441507		187049	24.804602		130999	35.41764441
8.7152282	212	39930	16.57443025		27091	24.4294046		22333	29.63403931
7.488683	399	1512	11.81746032		1431	12.48637317		1160	15.40344828
S2	Т3		S3	T4		S4			
1.915894	404								



```
serialspeedup Processorneeded p >= (1-alpha)/((T1-N3)/T1 – alpha)
 1.00454306 1.004543464
 1.04219703 1.04221877
10.78334339 12.58756254
serialspeedup Processorneeded p \ge (1-alpha)/((T1-N3)/T1 - alpha)
1.655034325 1.932410423
1.001527577 1.001528116
 1.00189171 1.001892802
```