

??  
?  
?  
?  
?  
?  
 $x_i$   
 $a_i$   
 $b_i$   
 $c_i$

$$(1) \quad u_i = a_i + F(b_i - c_i)$$

$F$   
[0,1]  
 $x_i$   
 $u_i$   
 $CR$   
 $CR$   
[0,1]  
 $E_g$   
 $E_l$   
 $HC$   
 $HC$   
 $P$   
 $N_l$   
 $N$   
 $g_L$   
 $N_l$   
 $g_L$   
 $N$   
 $P$   
 $x_i$   
 $P$   
 $U =$   
 $Q$   
 $i_c$   
 $i_N$   
 $i_c < (HC*$   
 $i_N)$   
 $U =$   
 $E_g =$   
 $E_l$   
 $i_i =$   
 $U(0,1)$   
 $r_i < HC$   
 $x_i =$   
 $x_i$   
 $x_i =$   
 $u_i$   
 $f(x') < f(x)$   
 $x$   
 $g_L$   
 $g_L$   
 $HC$

$$(2) \quad E_g = g_L + F(l - c)$$

$$(3) \quad E_l = l + F(x - c)$$

??  
 $i_c < (HC*$   
 $i_N)$   
 $HC$   
 $HC$   
 $HC$   
 $NP$   
40

$FCrwCpCgFCr\mu_{CR}\mu_FHCn_{leaders}$

		100.0	100.0			100.0	100.0
200.0		200.0	200.0	200.0	200.0	200.0	200.0
		300.0	300.0		300.0	300.0	300.0
		400.0			400.0	400.000003	
		523.90897	541.521084				
				603.187964			629.293758
		717.01654	723.983312				
818.904202		826.321588					
900.0		900.0	900.0		900.0	903.454324	
					1694.43752	2079.074266	
					1101.76974	1498.863598	
					1308.43844	1427.405881	
		1304.68155	1328.755262				
					1404.92899	1510.000769	
					1500.08134	1503.169264	
				1958.41152	2074.156879		
1743.155244					223.853972		
					1723.853972		
					1800.235515	1864.014301	
					1900.005630	1911.014116	
					2139.91552	2172.816519	
		2314.42123	2338.688719				
		2300.0	2300.093485				
				2773.372859			
2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	3047.982305	
				2897.742869	27479		