

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t4_d0.4_1.txt	0.39	×	0.0	×
instance_t4_d0.4_10.txt	0.01	×	0.0	×
instance_t4_d0.4_2.txt	0.02	×	0.0	×
instance_t4_d0.4_3.txt	0.02	×	0.0	×
instance_t4_d0.4_4.txt	0.01	×	0.0	×
instance_t4_d0.4_5.txt	0.01	×	0.0	×
instance_t4_d0.4_6.txt	0.02	×	0.0	×
instance_t4_d0.4_7.txt	0.01	×	0.0	×
instance_t4_d0.4_8.txt	0.02	×	0.0	×
instance_t4_d0.4_9.txt	0.02	×	0.0	×
instance_t4_d0.6_1.txt	0.01	×	0.0	×
instance_t4_d0.6_10.txt	0.01	×	0.0	×
instance_t4_d0.6_2.txt	0.02	×	0.0	×
instance_t4_d0.6_3.txt	0.02	×	0.0	×
instance_t4_d0.6_4.txt	0.01	×	0.0	×
instance_t4_d0.6_5.txt	0.02	×	0.0	×
instance_t4_d0.6_6.txt	0.01	×	0.0	×
instance_t4_d0.6_7.txt	0.02	×	0.0	×
instance_t4_d0.6_8.txt	0.02	×	0.0	×
instance_t4_d0.6_9.txt	0.02	×	0.0	×
instance_t4_d0.7_1.txt	0.0	×	0.0	×
instance_t4_d0.7_10.txt	0.01	×	0.0	×
instance_t4_d0.7_2.txt	0.0	×	0.0	×
instance_t4_d0.7_3.txt	0.01	×	0.0	×
instance_t4_d0.7_4.txt	0.02	×	0.0	×
instance_t4_d0.7_5.txt	0.02	×	0.0	×
instance_t4_d0.7_6.txt	0.0	×	0.0	×
instance_t4_d0.7_7.txt	0.01	×	0.0	×
instance_t4_d0.7_8.txt	0.03	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t4_d0.7_9.txt	0.02	×	0.0	×
instance_t6_d0.4_1.txt	0.02	×	1.31	×
instance_t6_d0.4_10.txt	0.03	×	0.0	×
instance_t6_d0.4_2.txt	0.07	×	0.0	×
instance_t6_d0.4_3.txt	0.04	×	0.52	×
instance_t6_d0.4_4.txt	0.04	×	0.18	×
instance_t6_d0.4_5.txt	0.02	×	0.0	×
instance_t6_d0.4_6.txt	0.06	×	0.03	×
instance_t6_d0.4_7.txt	0.03	×	0.0	×
instance_t6_d0.4_8.txt	0.02	×	0.0	×
instance_t6_d0.4_9.txt	0.04	×	0.02	×
instance_t6_d0.6_1.txt	0.09	×	0.0	×
instance_t6_d0.6_10.txt	0.03	×	0.15	×
instance_t6_d0.6_2.txt	0.01	×	0.0	×
instance_t6_d0.6_3.txt	0.03	×	0.0	×
instance_t6_d0.6_4.txt	0.05	×	0.0	×
instance_t6_d0.6_5.txt	0.03	×	0.0	×
instance_t6_d0.6_6.txt	0.03	×	0.0	×
instance_t6_d0.6_7.txt	0.02	×	0.0	×
instance_t6_d0.6_8.txt	0.03	×	0.0	×
instance_t6_d0.6_9.txt	0.02	×	0.0	×
instance_t6_d0.7_1.txt	0.16	×	0.0	×
instance_t6_d0.7_10.txt	0.02	×	0.0	×
instance_t6_d0.7_2.txt	0.01	×	0.0	×
instance_t6_d0.7_3.txt	0.02	×	0.0	×
instance_t6_d0.7_4.txt	0.03	×	0.0	×
instance_t6_d0.7_5.txt	0.02	×	0.0	×
instance_t6_d0.7_6.txt	0.01	×	0.0	×
instance_t6_d0.7_7.txt	0.02	×	0.0	×
instance_t6_d0.7_8.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t6_d0.7_9.txt	0.05	×	0.02	×
instance_t9_d0.4_1.txt	559.77		100.0	
instance_t9_d0.4_10.txt	0.02	×	100.0	
instance_t9_d0.4_2.txt	0.04	×	3.85	×
instance_t9_d0.4_3.txt	0.04	×	53.43	×
instance_t9_d0.4_4.txt	0.02	×	100.0	
instance_t9_d0.4_5.txt	0.04	×	0.0	×
instance_t9_d0.4_6.txt	0.03	×	0.0	×
instance_t9_d0.4_7.txt	0.0		100.0	
instance_t9_d0.4_8.txt	0.0		100.0	
instance_t9_d0.4_9.txt	0.08	×	0.0	×
instance_t9_d0.6_1.txt	0.04	×	100.0	
instance_t9_d0.6_10.txt	0.01	×	0.0	×
instance_t9_d0.6_2.txt	0.02	×	100.0	
instance_t9_d0.6_3.txt	165.13		62.92	×
instance_t9_d0.6_4.txt	0.0		100.0	
instance_t9_d0.6_5.txt	117.46		100.0	
instance_t9_d0.6_6.txt	0.01		100.0	
instance_t9_d0.6_7.txt	115.14		100.0	
instance_t9_d0.6_8.txt	0.03	×	0.04	×
instance_t9_d0.6_9.txt	185.12		100.0	
instance_t9_d0.7_1.txt	0.02	×	22.0	×
instance_t9_d0.7_10.txt	0.35	×	0.0	×
instance_t9_d0.7_2.txt	0.02	×	0.0	×
instance_t9_d0.7_3.txt	0.01		100.0	
instance_t9_d0.7_4.txt	0.03	×	0.0	×
instance_t9_d0.7_5.txt	0.02	×	0.0	×
instance_t9_d0.7_6.txt	0.0		100.0	
instance_t9_d0.7_7.txt	0.0		100.0	
instance_t9_d0.7_8.txt	0.01	×	2.37	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t9_d0.7_9.txt	155.76		100.0	
instance_t4_d0.4_1.txt	0.39	×	0.0	×
instance_t4_d0.4_10.txt	0.01	×	0.0	×
instance_t4_d0.4_2.txt	0.02	×	0.0	×
instance_t4_d0.4_3.txt	0.02	×	0.0	×
instance_t4_d0.4_4.txt	0.01	×	0.0	×
instance_t4_d0.4_5.txt	0.01	×	0.0	×
instance_t4_d0.4_6.txt	0.02	×	0.0	×
instance_t4_d0.4_7.txt	0.01	×	0.0	×
instance_t4_d0.4_8.txt	0.02	×	0.0	×
instance_t4_d0.4_9.txt	0.02	×	0.0	×
instance_t4_d0.6_1.txt	0.01	×	0.0	×
instance_t4_d0.6_10.txt	0.01	×	0.0	×
instance_t4_d0.6_2.txt	0.02	×	0.0	×
instance_t4_d0.6_3.txt	0.02	×	0.0	×
instance_t4_d0.6_4.txt	0.01	×	0.0	×
instance_t4_d0.6_5.txt	0.02	×	0.0	×
instance_t4_d0.6_6.txt	0.01	×	0.0	×
instance_t4_d0.6_7.txt	0.02	×	0.0	×
instance_t4_d0.6_8.txt	0.02	×	0.0	×
instance_t4_d0.6_9.txt	0.02	×	0.0	×
instance_t4_d0.7_1.txt	0.0	×	0.0	×
instance_t4_d0.7_10.txt	0.01	×	0.0	×
instance_t4_d0.7_2.txt	0.0	×	0.0	×
instance_t4_d0.7_3.txt	0.01	×	0.0	×
instance_t4_d0.7_4.txt	0.02	×	0.0	×
instance_t4_d0.7_5.txt	0.02	×	0.0	×
instance_t4_d0.7_6.txt	0.0	×	0.0	×
instance_t4_d0.7_7.txt	0.01	×	0.0	×
instance_t4_d0.7_8.txt	0.03	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t4_d0.7_9.txt	0.02	×	0.0	×
instance_t6_d0.4_1.txt	0.02	×	1.31	×
instance_t6_d0.4_10.txt	0.03	×	0.0	×
instance_t6_d0.4_2.txt	0.07	×	0.0	×
instance_t6_d0.4_3.txt	0.04	×	0.52	×
instance_t6_d0.4_4.txt	0.04	×	0.18	×
instance_t6_d0.4_5.txt	0.02	×	0.0	×
instance_t6_d0.4_6.txt	0.06	×	0.03	×
instance_t6_d0.4_7.txt	0.03	×	0.0	×
instance_t6_d0.4_8.txt	0.02	×	0.0	×
instance_t6_d0.4_9.txt	0.04	×	0.02	×
instance_t6_d0.6_1.txt	0.09	×	0.0	×
instance_t6_d0.6_10.txt	0.03	×	0.15	×
instance_t6_d0.6_2.txt	0.01	×	0.0	×
instance_t6_d0.6_3.txt	0.03	×	0.0	×
instance_t6_d0.6_4.txt	0.05	×	0.0	×
instance_t6_d0.6_5.txt	0.03	×	0.0	×
instance_t6_d0.6_6.txt	0.03	×	0.0	×
instance_t6_d0.6_7.txt	0.02	×	0.0	×
instance_t6_d0.6_8.txt	0.03	×	0.0	×
instance_t6_d0.6_9.txt	0.02	×	0.0	×
instance_t6_d0.7_1.txt	0.16	×	0.0	×
instance_t6_d0.7_10.txt	0.02	×	0.0	×
instance_t6_d0.7_2.txt	0.01	×	0.0	×
instance_t6_d0.7_3.txt	0.02	×	0.0	×
instance_t6_d0.7_4.txt	0.03	×	0.0	×
instance_t6_d0.7_5.txt	0.02	×	0.0	×
instance_t6_d0.7_6.txt	0.01	×	0.0	×
instance_t6_d0.7_7.txt	0.02	×	0.0	×
instance_t6_d0.7_8.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t6_d0.7_9.txt	0.05	×	0.02	×
instance_t9_d0.4_1.txt	559.77		100.0	
instance_t9_d0.4_10.txt	0.02	×	100.0	
instance_t9_d0.4_2.txt	0.04	×	3.85	×
instance_t9_d0.4_3.txt	0.04	×	53.43	×
instance_t9_d0.4_4.txt	0.02	×	100.0	
instance_t9_d0.4_5.txt	0.04	×	0.0	×
instance_t9_d0.4_6.txt	0.03	×	0.0	×
instance_t9_d0.4_7.txt	0.0		100.0	
instance_t9_d0.4_8.txt	0.0		100.0	
instance_t9_d0.4_9.txt	0.08	×	0.0	×
instance_t9_d0.6_1.txt	0.04	×	100.0	
instance_t9_d0.6_10.txt	0.01	×	0.0	×
instance_t9_d0.6_2.txt	0.02	×	100.0	
instance_t9_d0.6_3.txt	165.13		62.92	×
instance_t9_d0.6_4.txt	0.0		100.0	
instance_t9_d0.6_5.txt	117.46		100.0	
instance_t9_d0.6_6.txt	0.01		100.0	
instance_t9_d0.6_7.txt	115.14		100.0	
instance_t9_d0.6_8.txt	0.03	×	0.04	×
instance_t9_d0.6_9.txt	185.12		100.0	
instance_t9_d0.7_1.txt	0.02	×	22.0	×
instance_t9_d0.7_10.txt	0.35	×	0.0	×
instance_t9_d0.7_2.txt	0.02	×	0.0	×
instance_t9_d0.7_3.txt	0.01		100.0	
instance_t9_d0.7_4.txt	0.03	×	0.0	×
instance_t9_d0.7_5.txt	0.02	×	0.0	×
instance_t9_d0.7_6.txt	0.0		100.0	
instance_t9_d0.7_7.txt	0.0		100.0	
instance_t9_d0.7_8.txt	0.01	×	2.37	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
instance_t9_d0.7_9.txt	155.76		100.0	