Analise de Tempo

	Geral			
#	Benckmark	Dominio	Minimo Global	Coef
1	Adjiman	-1≤xi≤1	f(0,0)=−2.02181	
2	Bohachevsky 1	-50≤xi≤50	f(0,0) = 0	
3	Bohachevsky 3	-50≤xi≤50	f(0,0) = 0	
4	Branin RCOS 01	−5≤x1≤10 0≤x2≤15	−π,12.275),(π,2.275), (9.42478,2.475)} .39788735772973816	
5	Camel Six	−3≤x1≤3 -2≤x2≤2	f{(0,0898;-0,7126), (-0,0898;0,7126)} = -1,0316	
6	Camel Three	-5≤xi≤5	f(0,0) = 0	
7	Cosine			
8	Scahffer 1			
9	Styblinski tang	-5≤xi≤5	-2,903534;−2.903534) =−78,33198	
10	Trecanni			
11	Tsoulos			
12	Ursem 1			
13	Wayburn Seader 1			
14	Zirilli			
15	Rotated Ellipse 01			

	Semi-Positivas			
#	Benckmark	Dominio	Minimo Global	Coef
1	Alpine 1		F(0,0) = 0	
2	Egg Crate		F(0,0) = 0	
3	Himmeblau		f(3,2) = 0	
4	Leon		F(1,1) = 0	
5	Price 4			
6	Schuwefel 2.25			
7	Sphere			
8	Wayburn Seader 2			
9	Price 1			
10	Dixo & Price			

	Convexas			
#	Benckmark	Dominio	Minimo Global	Coef
1	Booth	-10≤xi≤10	f(1,3) = 0	1000
2	Chung Reynolds			1000
3	Cube			1000
4	MC Cormick	-2<X1<4 -3<x2<4	(-0,54719,-1,54719 = -1.9133	1000
5	Godstein Price	0m1.966s	0m1.966s	1000
6	Schumer			1000
7	Sum Square			1000
8	Matyas	-10<xi<10	f(0,0) = 0	1000
9	Rotated Ellipse 02			1000
10	Zettl			1000

Analise de Tempo

Boolector		Z3	
f(2,0.1) = -2.02174	f(0,0) = 0	f(2,0.1) = -2.02174	246m10.379s
f(0,0) = 0	41m6.222s	f(0,0) = 0	74m29.659s
f(0,0) = 0	98m11.076s	f(0,0) = 0	374m34.955s
f(3.14,2.28) = 0.397913	783m54.745s	f(3.14,2.28)=0.397913	1646m29.295s
f(-0.09,0.71) = -1.03157	61m48.328s	f(0.09,-0.71) = -1.03157	546m12.292s
f(0,0) = 0	2m14.101s	f(0,0) = 0	2m16.150s
f(0,0) = -0.2	9m37.403s	f(0,0) = -0.2	8m33.652s
f(0,0) = 0	8m30.493s	f(0,0) = 0	20m25.419s
f(-2.9,-2.9) = -78.3319	0m10.710s	f(-2.9,-2.9) = -78.3319	22m6.737s
f(0,0) = 0	0m10.710s	f(0,0) = 0	0m6.389s
f(0,0) = -2	4m17.859s	f(0,0) = -2	3m26.212s
f(1.7,0) = -4.8168	33m34.542s	f(1.7,0) = -4.8168	578m54.286s
f(1,2) = 0	0m30.552s	f(1,2) = 0	0m21.864s
f(-1,0) = -0.35	0m20.768s	f(-1,0) = -0.35	0m8.106s
f(0,0) = 0	1m0.306s	f(0,0) = 0	0m49.657s

Boolector		Z3	
f(-0,0) = 0	10m57,313s	f(-0,0) = 0	4m49,531s
f(0,-0) = 0	9m37,702s	f(0,-0) = 0	15m10,268s
f(3,2) = 0	0m21,450s	f(3,2) = 0	0m22,385s
F(1,1) = 0	0m4,909s	F(1,1) = 0	0m2,406s
F(0,0) = 0	0m8,354s	F(0,0) = 0	0m6,220s
f(1,1) = 0	0m20,440s	f(1,1) = 0	0m17,836s
f(0,0) = 0	0m0,467s	f(0,0) = 0	0m0,592s
F(0.2,1) = 0	12m1,563s	F(0.2,1) = 0	17m38,814s
F(5,5) = 0	0m2,785s	f(5,-5) = 0	0m0,948s
f(1,1) = 0	0m5.411s	f(1,1) = 0	0m1.378s

Boolector		Z3	
f(1,3) = 0	0m48.002s	f(1,3) = 0	0m51.801s
f(-9.811,-9.315) = 0	0m26.236s	f(-9.976,-9.832) = 0	0m26.686s
f(-9.692,-2.538) = 0	0m23.623s	29496e+06,-4.29496e+06) = -1.2548e	0m3.453s
f(-0.55,-1.55) = -1.91321	44m24.354s	f(-0.55,-1.55)=-1.91321	timeout
f(-0.494,1) = 3	2m20.593s	f(-0.649,0.882) = 3	0m43.945s
f(0,0) = 0	0m11.824s	f(0,0) = 0	0m11.989s
f(0,0) = 0	0m2.664s	f(0,0) = 0	0m1.275s
f(0,0) = 0	1m22.626s	f(0,0) = 0	2m57.086s
f(0,0) = 0	0m5.091s	f(0,0) = 0	0m33,196s
f(0,0) = 0	0m22.185s	f(0,0) = 0	0m11.141s

Mathsat		Minisat	
f(2,0.1) = -2.02174	70m45,724s	f(2,0.1) = -2.02174	60m26,928s
f(0,0) = 0	29m19,257s	f(0,0)=0	35m52,716s
f(0,0) = 0	58m7.546s	f(0,0) = -0	1159m53.470s
f(9.42,2.47)=0.397998	4125m40.384s	f(9.421,2.469) = 0.397964	197m9,507s
f(-0.09,0.71) = -1.03157	668m53.360s	f(0.09,-0.71) = -1.03157	12m16,242s
f(0,0) = -6.8813e+23	1m32.412s	f(-0,0) = 0	219m34,466s
f(0,0) = -0.2	4m52.842s	f(-0,-0) = -0.2	17m41,826s
f(0,0) = 0	108m35.148s	f(0,0)=0	1708m35.910s
f(-2.9,-2.9) = -78.3319	2m23.259s	f(-2.9,-2.9) = -78.3319	3m25.353s
f(0,0) = 0	0m4.187s	f(-0,0) = 0	0m22.407s
f(0,0) = -2	3m19.756s	f(0,-0) = -2	15m14.983s
f(1.7,0) = -4.8168	86m19.487s	f(1.7,-0) = -4.8168	133m9.277s
f(1,2) = 0	0m23.674s	f(1,2) = 0	0m8.758s
f(-1,0) = -0.35	0m7.759s	f(-1,0) = -0.35	14m49.395s
f(0,0) = 0	1m14.772s	f(-0,-0) = 0	0m7.371s

Mathsat		Minisat	
f(-0,0) = 0	7m22,821s	f(-0,0) = 0	78m54,359s
f(0,-0) = 0	15m59,374s	f(0,-0) = 0	58m58,560s
f(3,2) = 0	0m23,444s	f(3,2) = 0	0m3,902s
F(1,1) = 0	0m3,653s	F(1,1) = 0	0m1,304s
f(0,1) = 0	0m10,852s	F(0,0) = 0	0m1,396s
f(1,1) = 0	0m35,497s	F(1,1) = 0	0m2,254s
F(0,0) = 0	0m0,598s	F(0,0) = 0	0m0,504s
4*	20m14,576s	F(0.2,1) = 0	0m13,349s
f(-5,5) = 0	0m3,570s	F(5,5) = 0	0m3,848s
f(1,1) = 0	0m5.411s	f(1,1) = 0	0m4.032s

Mathsat		Minisat	
f(1,3) = 0	1m5.281s	f(1,3) = 0	0m0.983s
f(-9.953,-4.29496e+06) = 0.0004	3m31.407s	f(0,0) = 0	0m1.231s
496e+06,-4.29496e+06) = -1.8371	0m6.315s	f(1,1) = 0	0m2.197s
f(-0.55,-1.55) = -1.91321	2285m55.597s	f(-0.55,-1.55) = -1.91321	1654m29.415s
f(-0.379,0.99) = 3	5m58.763s	f(0,-1) = 3	13m24.434s
f(0,0) = 0	0m12.741s	f(0,0) = 0	0m2.567s
f(0,0) = 0	0m5.642s	f(0,0) = 0	0m2.690s
f(0,0) = 0	2m58.975s	f(0,0) = 0	0m11.559s
f(0,0) = 0	0m50,749s	f(-0,-0) = 0	0m5,338s
f(0,0) = 0	0m9.791s	f(-0,0) = -0	0m4.525s

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Adjiman	-1<xi<1	f(0,0)=−2.02181	-2	-2.02174
2	Bohachevsky 1	-100<xi<100	f(0,0)=0	0	0
3	Bohachevsky 3	-50<xi<50	f(0,0)=0		
4	Branin RCOS 1			0.644534	0.643924
5	Camel Six				
6	Camel Three				
7	Cosine			-0.2	-0.2
8	Scahffer 1				
9	Styblinski tang			-78	-78.3319
10	Trecanni				
11	Tsoulos				
12	Ursem 1				
13	Wayburn Seader 1				
14	Zirilli			-0.35	-0.35
15	Rotated Ellipse 01				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Alpine 1			0	0
2	Egg Crate			0	0
3	Himmeblau			0	0
4	Leon			0	0
5	Price 4			0	0
6	Schuwefel 2.25			0	0
7	Sphere			0	0
8	Wayburn Seader 2			0.115685	0
9	Price 1			0	0
10	Dixo & Price				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Booth			0	0
2	Chung Reynolds				
3	Cube				
4	MC Cormick	-2<x1<4 -3<x2<4	f(-0,5471,-1,5471)= -1.9133		
5	Godstein Price	-2<xi<2	f(0,-1)=3		
6	Schumer				
7	Sum Square			0	0
8	Matyas	-10<xi<10	f(0,0)=0		
9	Rotated Ellipse 02			0	0
10	Zettl			0	0
11					

Power Sum

P100	P1000
-2.02174	-
-	-
0.401502	0.397964
-0.2	timeout
-78.3319	-78.3322
-0.352335	-0.352335

Artigo

P100	P1000
0	0
-	-
0	0
0	0
-	-
-	-
-	-
0	-
-	-

P100	P1000
0	0
0	0
0	0
-0.003791	-0.003791

			Mathsat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Adjiman	-1<xi<1	f(0,0)=−2.02181	-2	-2.02174
2	Bohachevsky 1	-100<xi<100	f(0,0)=0	0	0
3	Bohachevsky 3	-50<xi<50	f(0,0)=0		
4	Branin RCOS 1			0.644534	0.402935
5	Camel Six				
6	Camel Three				
7	Cosine				
8	Scahffer 1				
9	Styblinski tang				
10	Trecanni				
11	Tsoulos				
12	Ursem 1				
13	Wayburn Seader 1				
14	Zirilli				
15	Rotated Ellipse 01				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Alpine 1			0	0
2	Egg Crate			0	0
3	Himmeblau			0	0
4	Leon			-5.92178e-24	-5.92178e-24
5	Price 4			0	0
6	Schuwefel 2.25			0	0
7	Sphere			0	0
8	Wayburn Seader 2			0.115685	0
9	Price 1			0	0
10	Dixo & Price				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Booth			0	0
2	Chung Reynolds				
3	Cube				
4	MC Cormick	-2<x1<4 -3<x2<4	f(-0,5471,-1,5471)= -1.9133		
5	Godstein Price	-2<xi<2	f(0,-1)=3		
6	Schumer				
7	Sum Square			0	0
8	Matyas	-10<xi<10	f(0,0)=0		
9	Rotated Ellipse 02			0	0
10	Zettl			0	0

P100	P1000
-	-
-	-
…	

P100	P1000
0	0
-	-
0	0
-	-
-	-
-	-
-	-
0	-
-	-

P100	P1000
0	0
0	0
0	0
-0.003791	-0.003791

Mathsat					
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Adjiman	-1<xi<1	(0,0)=−2.0218	-2	-2.02174
2	Bohachevsky 1	-100<xi<100	f(0,0)=0	0	0
3	Bohachevsky 3	-50<xi<50	f(0,0)=0		
4	Branin RCOS 1			0.644534	0.402935
5	Camel Six			0	-1.02981
6	Camel Three			0	0
7	Cosine			-0.2	-0.2
8	Scahffer 1				
9	Styblinski tang				
10	Trecanni				
11	Tsoulos				
12	Ursem 1				
13	Wayburn Seader 1				
14	Zirilli				
15	Rotated Ellipse 01				

Minisat					
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Alpine 1			0	0
2	Egg Crate			0	0
3	Himmeblau			0	0
4	Leon			0	0
5	Price 4			0	0
6	Schuwefel 2.25			0	0
7	Sphere			0	0
8	Wayburn Seader 2			0.115685	0
9	Price 1			0	0
10	Dixo & Price				

Minisat					
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Booth			0	0
2	Chung Reynolds				
3	Cube				
4	MC Cormick	-2<x1<4 -3<x2<4	0,5471,-1,5471)= -1.9133		
5	Godstein Price	-2<xi<2	f(0,-1)=3		
6	Schumer				
7	Sum Square			0	0
8	Matyas	-10<xi<10	f(0,0)=0		
9	Rotated Ellipse 02			0	0
10	Zettl			0	0

P100	P1000
-	-
-	-
…	
-1.03157	-1.03157
-	-
-	-

P100	P1000
0	0
-	-
0	0
-	-
-	-
-	-
-	-
0	-
-	-

P100	P1000
0	0
0	0
0	0
-0.003791	-0.003791

			Mathsat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Adjiman	-1<xi<1	(0,0)=−2.0218	-2	-2.02174
2	Bohachevsky	-100<xi<100	f(0,0)=0	0	0
3	Bohachevsky	-50<xi<50	f(0,0)=0		
4	Branin RCOS 1			0.644534	0.402935
5	Camel Six				
6	Camel Three				
7	Cosine				
8	Scahffer 1				
9	Styblinski tang				
10	Trecanni				
11	Tsoulos				
12	Ursem 1				
13	Wayburn Seader 1				
14	Zirilli				
15	Rotated Ellipse 01				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Alpine 1			0	0
2	Egg Crate			0	0
3	Himmeblau			0	0
4	Leon			0	0
5	Price 4			0	0
6	Schuwefel 2.25			0	0
7	Sphere			0	0
8	Wayburn Seader 2			0.115685	0
9	Price 1			0	0
10	Dixo & Price				

			Minisat		
#	Benckmark	Dominio	Minimo Global	P1	P10
1	Booth			0	0
2	Chung Reynolds				
3	Cube				
4	MC Cormick	-2<x1<4 -3<x2<4	0,5471,-1,5471)= -1.9133		
5	Godstein Price	-2<xi<2	f(0,-1)=3		
6	Schumer				
7	Sum Square			0	0
8	Matyas	-10<xi<10	f(0,0)=0		
9	Rotated Ellipse 02			0	0
10	Zettl			0	0

P100	P1000
-	-
-	-
…	

P100	P1000
0	0
-	-
0	0
-	-
-	-
-	-
-	-
0	-
-	-

P100	P1000
0	0
0	0
0	0
-0.003791	-0.003791