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**ANÁLISE COMPARATIVA ENTRE DIFERENTES MÉTODOS DE  
COLISÃO 2D NA UNITY**

TRABALHO DE CONCLUSÃO DE CURSO

CORNÉLIO PROCÓPIO

2019

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COLISÃO 2D NA UNITY**

Trabalho de Conclusão de Curso apresentada à disciplina de Trabalho de Conclusão de Curso da Universidade Tecnológica Federal do Paraná como requisito parcial para obtenção do grau de Bacharel em Engenharia de Software.

Orientador:     Doutor Paulo Augusto Nardi

**CORNÉLIO PROCÓPIO**

**2019**

## RESUMO

MORETTO, Rodrigo. Análise comparativa entre diferentes métodos de colisão 2D na Unity. f. Trabalho de Conclusão de Curso – Engenharia de Software, Universidade Tecnológica Federal do Paraná. Cornélio Procópio, 2019.

As colisões em jogos apresentam um fator importante durante seu desenvolvimento, pois elas irão influenciar no funcionamento da física e manipulação de eventos. Devido a isso, a escolha de qual o tipo de colisão deverá ser aplicada para determinado objeto ou evento deve ser bem organizada, com o intuito de causar o mínimo ou nenhuma falha durante a execução do jogo. Este trabalho apresentará as vantagens e desvantagens que cada colisão presente na plataforma de desenvolvimento de jogos (game engine) Unity oferece.

**Palavras-chave:** Jogos Digitais, Unity, Game Engine, Colisão, 2D, Desenvolvimento

## **ABSTRACT**

MORETTO, Rodrigo. Comparative analysis between different 2D collision methods on Unity. f. Trabalho de Conclusão de Curso – Engenharia de Software, Universidade Tecnológica Federal do Paraná. Cornélio Procópio, 2019.

Collisions in games present an important factor during its development, because they will conduct the operation of physics and event manipulation. Due to that, the choice of which collision type must be applied to a specific object or event should be well organized, with the intention to cause the minimum or no fail during the game execution. This work will show the advantages and disadvantages that each collision available on the game development platform (game engine) Unity can offer.

**Keywords:** Digital Games, Unity, Game Engine, Collision, 2D, Development

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### A.1 *PRE-RUNTIME*

#### A.1.1 UM OBJETO

**Tabela 1:** 1 Objeto Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.8%	1	0.13	0

70				
170				

**Tabela 2:** 1 Objeto Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70	0.6%	1	0.09	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
90	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
100				
170				

**Tabela 3:** 1 Objeto Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	2.0%	1	0.34	32
50				
170				

**Tabela 4:** 1 Objeto Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
60				
	0.6%	1	0.10	0
70				
170				

**Tabela 5:** 1 Objeto Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	0.5%	1	0.09	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
50	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
60	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
		1	0.00	0



70				
170				

**Tabela 6:** 1 Objeto Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.4%	6	0.49	0
	0.6%	2	0.14	0
	0.6%	1	0.15	0
	1.8%	1	0.07	0
	0.5%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
10	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
20	0.5%	1	0.07	0

	0.4%	1	0.07	0
	0.4%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.07	0
30	0.4%	1	0.07	0
	0.2%	1	0.07	0
	1.4%	1	0.13	0
	0.6%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
40	0.4%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	3.2%	1	0.55	72
	1.4%	1	0.25	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.11	0
50	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.09	0

	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
60	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.3%	1	0.09	0
	0.8%	1	0.08	0
	0.7%	1	0.10	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	1.2%	1	0.20	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
70	0.4%	1	0.07	0
	2.6%	1	0.41	3600
	1.6%	1	0.24	3600
	0.9%	1	0.16	3600
	0.9%	1	0.13	3600
	0.9%	1	0.15	3600
	0.8%	1	0.15	3600
	0.8%	1	0.14	3600
	0.8%	1	0.14	3600
80	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600

	0.8%	1	0.14	3600
90	0.8%	1	0.14	3600
	0.9%	1	0.15	3600
	0.8%	1	0.14	3600
	0.5%	1	0.14	3600
	1.6%	1	0.20	3600
	2.1%	1	0.28	3600
	0.9%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.8%	1	0.14	3600
100	0.8%	1	0.14	3600
	0.1%	1	0.02	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
110	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
120	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
130	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
140	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
150	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0

	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
160	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.2%	1	0.01	0
170	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

#### A.1.2 DEZ OBJETOS

**Tabela 7:** 10 Objetos Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%			
		1	0.00	0
	0.0%	4	0.00	0
	0.0%	4		
80			0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
90				
270				

**Tabela 8:** 10 Objetos Pre-Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				
	0.4%	2	0.07	0
		4	0.00	0
90				
100	0.0%			



		2	0.00	0
110				
270				

**Tabela 9:** 10 Objetos Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.0%	12	0.02	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
10	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
20	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
30	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
40	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
50	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
60	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	0
		2	0.00	0
	0.0%			0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	5	0.00	0

	0.0%	5	0.00	0
80	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
90	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.4%	16	0.03	0
100	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.1%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
110	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0

	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
120	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
130	0.0%	14	0.00	0
	0.2%	14	0.03	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
140	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0

	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
150	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
160	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.1%	14	0.00	0
	0.0%	14	0.02	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
170	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	
	0.0%	14	0.00	
		14	0.00	
180				

270				

**Tabela 10:** 10 Objetos Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40				
	1.0%	1	0.09	0

50	0.0%	1	0.00	0
	0.0%			
60		1	0.00	0
	0.0%			
		1	0.00	0
	0.0%	1		
70				
			0.00	0
	0.0%	1		0
80				



270				

**Tabela 11:** 10 Objetos Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.5%	1	0.09	0

70				
		1	0.00	0
	0.0%			
		1	0.00	0
80				
270				

**Tabela 12:** 10 Objetos Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	0.6%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
50	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
60	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
		3	0.00	
	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%			0
70	0.0%	2	0.00	0

	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
80	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
90	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
100	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
110	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
120	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
130	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0

	0.0%	2	0.01	0
140	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
150	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.1%	2	0.01	0
160	0.1%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
170	0.1%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0

	0.0%	2	0.01	0
		2	0.01	0
		2	0.00	0
		2	0.00	
		2	0.00	
180				
270				

**Tabela 13:** 10 Objetos Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	2.0%	6	0.77	42700
	2.0%	2	0.28	14200
	2.3%	1	0.19	7100
	1.0%	1	0.16	7100
	0.9%	1	0.16	7100
	1.0%	1	0.16	7100
	0.8%	1	0.14	7100
	1.0%	1	0.16	7100
10	0.9%	1	0.17	7100
	1.1%	1	0.17	7100

	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
	0.9%	1	0.16	7100
	1.1%	1	0.17	7100
	0.9%	1	0.16	7100
	1.0%	1	0.16	7100
	1.0%	1	0.17	7100
	1.1%	1	0.18	7100
20	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
	0.9%	1	0.17	7100
	1.0%	1	0.17	7100
	0.9%	1	0.16	7100
	1.0%	1	0.16	7100
	0.9%	1	0.16	7100
	1.1%	1	0.18	7100
	0.9%	1	0.17	7100
	0.5%	1	0.16	7100
30	3.3%	1	0.30	7100
	2.3%	1	0.30	7100
	1.0%	1	0.16	7100
	1.0%	1	0.17	7100
	0.9%	1	0.17	7100
	0.9%	1	0.14	7100
	0.8%	1	0.15	7100
	1.0%	1	0.16	7100
	0.9%	1	0.16	7100
	0.9%	1	0.15	7100
40	0.8%	1	0.14	7100
	0.6%	1	0.15	7100
	3.3%	1	0.30	7100
	1.9%	1	0.31	7100
	0.8%	1	0.14	7100
	2.6%	1	0.44	7100



	0.8%	1	0.13	7100
	0.8%	1	0.13	7100
	0.9%	1	0.16	7100
	0.8%	1	0.13	7100
50	0.8%	1	0.13	7100
	0.9%	1	0.15	7100
	0.8%	1	0.13	7100
	0.9%	1	0.16	7100
	0.9%	1	0.15	7100
	0.7%	1	0.14	7100
	0.9%	1	0.13	7100
	1.0%	1	0.16	7100
	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
60	0.7%	1	0.18	7100
	1.4%	1	0.15	7100
	1.1%	1	0.17	7100
	1.3%	1	0.19	7100
	0.9%	1	0.15	7100
	1.4%	1	0.24	7100
	1.0%	1	0.17	7100
	1.0%	1	0.18	7100
	1.1%	1	0.18	7100
70	1.2%	1	0.19	10700
	1.1%	1	0.19	17800
	1.1%	1	0.19	17800
	1.2%	1	0.20	17800
	1.2%	1	0.19	17800
	1.1%	1	0.19	17800
	1.3%	1	0.20	21300
	1.2%	1	0.21	35500
	1.2%	1	0.20	35500
	1.3%	1	0.21	35500

80	1.3%	1	0.21	42700
	1.2%	1	0.21	42700
	1.3%	1	0.21	49800
	1.8%	1	0.31	56900
	1.3%	1	0.22	49800
	1.3%	1	0.22	49800
	1.5%	1	0.26	49800
	1.2%	1	0.21	42700
	1.3%	1	0.23	56900
	1.3%	1	0.22	56900
90	1.4%	1	0.22	56900
	0.7%	1	0.22	56900
	6.0%	1	0.44	56900
	1.8%	1	0.29	56900
	1.9%	1	0.28	56900
	1.6%	1	0.28	56900
	1.3%	1	0.22	56900
	1.3%	1	0.22	56900
	1.4%	1	0.23	56900
	0.9%	1	0.23	56900
100	2.6%	1	0.22	56900
	1.4%	1	0.23	56900
	1.3%	1	0.22	49800
	1.4%	1	0.22	49800
	1.3%	1	0.22	49800
	1.3%	1	0.23	49800
	1.3%	1	0.22	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.4%	1	0.21	49800
110	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.3%	1	0.21	49800
	1.3%	1	0.22	49800

	1.3%	1	0.21	49800
	1.2%	1	0.22	49800
	1.5%	1	0.22	49800
	1.2%	1	0.21	49800
	1.4%	1	0.22	49800
	1.1%	1	0.21	49800
120	1.3%	1	0.21	49800
	0.8%	1	0.21	49800
	2.4%	1	0.28	49800
	1.7%	1	0.21	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.3%	1	0.21	49800
	1.2%	1	0.22	49800
	1.3%	1	0.21	49800
	1.3%	1	0.21	49800
130	1.3%	1	0.21	49800
	1.3%	1	0.22	49800
	1.3%	1	0.22	49800
	1.3%	1	0.22	49800
	1.3%	1	0.22	49800
	1.3%	1	0.22	49800
	2.3%	1	0.38	49800
	1.2%	1	0.30	49800
	2.9%	1	0.23	49800
	1.2%	1	0.21	49800
140	1.3%	1	0.21	49800
	1.3%	1	0.21	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.3%	1	0.21	49800
	1.3%	1	0.23	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800

	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
150	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	0.9%	1	0.22	49800
	2.6%	1	0.34	49800
	1.8%	1	0.21	49800
	1.2%	1	0.21	49800
	1.3%	1	0.21	49800
	1.3%	1	0.22	49800
	1.3%	1	0.23	49800
	1.3%	1	0.21	49800
160	1.3%	1	0.22	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.5%	1	0.28	49800
	1.4%	1	0.22	49800
	1.3%	1	0.21	49800
	1.2%	1	0.21	49800
	1.3%	1	0.21	49800
	0.9%	1	0.15	0
	0.7%	1	0.11	0
170	0.6%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
180	0.9%	1	0.15	0
	0.7%	1	0.11	0

	0.7%	1	0.12	0
	0.4%	1	0.11	0
	1.3%	1	0.14	0
	1.7%	1	0.23	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.6%	1	0.12	0
190	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
	0.4%	1	0.12	0
	1.4%	1	0.12	0
	0.6%	1	0.11	0
	0.7%	1	0.12	0
	0.6%	1	0.11	0
200	0.7%	1	0.13	0
	1.0%	1	0.17	0
	0.7%	1	0.11	0
	0.6%	1	0.11	0
	0.8%	1	0.13	0
	0.7%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0
	1.1%	1	0.18	0
	0.7%	1	0.11	0
210	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.5%	1	0.12	0
	0.9%	1	0.10	0

	0.7%	1	0.12	0
	0.7%	1	0.12	0
	1.2%	2	0.21	0
220				
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.8%	1	0.14	0
	0.6%	1	0.11	0
	0.7%	1	0.12	0
	0.6%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
230	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.8%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.5%	1	0.12	0
	0.8%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
240	0.7%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.4%	1	0.12	0
	1.7%	1	0.16	0
	1.0%	1	0.12	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0

250	0.7%	1	0.11	0
	0.6%	1	0.12	0
	0.7%	1	0.11	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.6%	1	0.12	0
260	0.8%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
270	0.4%	1	0.12	0
	1.1%	1	0.12	0
	0.9%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.4%	1	0.11	0
	1.6%	1	0.22	0
	0.6%	1	0.11	0
	0.0%	1	0.12	0

#### A.1.3 CINQUENTA OBJETOS

**Tabela 14:** 50 Objetos Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
70				
	0.0%	4	0.00	0
	0.0%	6	0.00	0



80	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
90				
	0.0%	2	0.00	0
	0.1%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
100				
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
110	0.0%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0

	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
120	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
130	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
140	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	6	0.00	0
	0.0%	2	0.00	0
150				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
160				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
180				

	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
190	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
200	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
210	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
220	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
230	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
240				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

250				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
260	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
270				
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
280				
	0.0%	2	0.00	0
	0.0%	4	0.01	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0

**Tabela 15:** 50 Objetos Pre-Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				
	0.8%	2	0.14	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
90				
	0.0%	4	0.00	0

	0.1%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
100	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	10		0
			0.00	
	0.0%	6	0.00	0
	0.0%	12	0.00	0
110				
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
120	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0



	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
130	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
140	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4		0
			0.00	
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
150				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
160	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4		0
170				
			0.00	
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
180				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
190	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
200	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
210	0.0%			
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
220	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2		
230			0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
240				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
250	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
260	0.0%	2		
			0.00	0
	0.0%	2	0.00	0

	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
270	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
280	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
			0.00	

**Tabela 16:** 50 Objetos Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.1%	60	0.08	0

	0.1%	30	0.03	0
	0.1%	10	0.01	0
	0.1%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.1%	10	0.00	0
	0.0%	10	0.00	0
10	0.0%	10	0.06	0
	0.0%	10	0.06	0
	0.0%	10	0.01	0
	0.1%	10	0.00	0
	0.0%	10	0.00	0
	0.1%	10	0.01	0
	0.1%		0.01	
	0.1%	10	0.01	0
		10		0
	0.1%	10	0.01	0
20	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%		0.02	
		10	0.01	0
	0.0%	10		0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
30	0.1%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.1%	10	0.01	0
	0.0%	10	0.00	0
	0.1%	10	0.01	0
	0.0%	10	0.00	0

	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
40	0.1%	10	0.01	0
	0.1%	10	0.01	0
	0.1%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.1%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
50	0.0%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
60	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.02	0
	0.0%	10	0.00	0
	0.4%	10	0.02	0
	0.0%	10	0.01	0
	0.1%	10	0.00	0
70	0.0%	10	0.01	0

	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0
	0.1%	14	0.02	0
	0.0%	14	0.00	0
	0.1%	14	0.02	0
	0.0%	18	0.00	0
	0.0%	24	0.00	0
80	0.0%	24	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
90	0.0%	36	0.01	0
	0.1%	40	0.01	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	50	0.02	0
	0.1%	44	0.02	0
	0.0%	82	0.04	0
	0.1%	44	0.05	0
	0.1%	50	0.05	0
100	0.6%	48	0.02	0
	0.1%	46	0.02	0
	0.1%	50	0.04	0
	0.2%	58	0.05	0
	0.3%	66	0.05	0



	0.1%	72	0.02	0
	0.2%	70	0.05	0
	0.2%	74	0.03	0
	0.2%	72	0.03	0
	0.2%	66	0.03	
110	0.2%		0.04	0
	0.2%	68	0.03	0
	0.2%	90		0
		128	0.04	
	0.2%		0.07	0
	0.4%	58		0
		68	0.02	0
	0.1%	82	0.05	0
	0.2%	90	0.03	0
	0.2%	84	0.03	0
120	0.2%	90	0.05	0
	0.3%	96	0.05	0
	0.3%	96	0.05	0
	0.3%	102	0.04	0
	0.3%	98	0.05	0
	0.3%	92	0.06	0
	0.3%	94	0.06	0
	0.4%	74	0.04	0
	0.3%	92	0.05	0
	0.2%	178	0.18	0
130	0.8%	90	0.12	0
	1.3%	86	0.04	0
	0.3%	78	0.04	0
	0.4%	74	0.07	0
	0.2%	72	0.03	0
	0.4%	74	0.06	0
	0.4%	74	0.04	0
	0.2%	76	0.04	0
	0.2%	76	0.05	0

	0.3%	80	0.04	0
140	0.2%	74	0.04	0
	0.2%	78	0.04	0
	0.2%	76	0.03	0
	0.2%	74	0.04	0
	0.2%	72	0.04	0
	0.2%	70	0.03	0
	0.2%	66	0.04	0
	0.2%	68	0.03	0
	0.3%	76	0.06	0
	0.3%	82	0.05	0
150	0.1%	80	0.04	
	0.2%	78	0.04	0
	0.2%	78	0.10	
	0.2%	72	0.04	0
	0.2%		0.04	0
			0.04	0
	0.3%	74		0
		78	0.07	0
	0.2%	84		0
	0.3%	84	0.05	0
160	0.3%	80	0.05	0
	0.2%	82	0.04	0
	0.1%	82	0.04	0
	0.1%	162	0.15	0
	0.6%	78	0.10	0
	1.3%	78	0.10	0
	0.2%	78	0.04	0
	0.2%	78	0.04	0
	0.2%	78	0.05	0
	0.5%	82	0.07	0
170	0.3%	82	0.06	0
	0.3%	82	0.06	0
	0.3%	84	0.05	0

	0.3%	82	0.04	0
	0.4%	80	0.06	0
	0.2%	80	0.04	0
	0.2%	82	0.04	0
	0.3%	78	0.05	0
	0.3%	74	0.05	0
	0.2%	72	0.04	0
180	0.3%	72	0.06	0
	0.3%	74	0.05	0
	0.2%	74	0.04	0
	0.2%	76	0.04	0
	0.2%	76	0.04	0
	0.3%	78	0.05	0
	0.3%	78	0.05	0
	0.3%	80	0.05	0
	0.2%	82	0.04	0
	0.2%	82	0.04	0
190	0.2%	82	0.03	0
	0.3%	82	0.05	0
	0.4%	80	0.08	0
	0.1%	82	0.04	0
	0.2%	74	0.05	0
	0.9%	72	0.07	0
	0.3%	70	0.05	0
	0.2%	72	0.04	0
	0.2%	72	0.03	0
	0.2%	72	0.03	0
200	0.2%	72	0.03	0
	0.2%	72	0.03	0
	0.2%	70	0.04	0
	0.3%	70	0.05	0
	0.2%	70	0.03	0
	0.2%	72	0.04	0
	0.2%	70	0.03	0

	0.3%	70	0.06	0
	0.2%	74	0.03	0
	0.2%	74	0.04	0
210	0.2%	72	0.04	0
	0.2%	72	0.04	0
	0.3%	68	0.06	0
	0.2%	68	0.04	0
	0.2%	70	0.04	0
	0.2%	70	0.04	0
	0.3%	70	0.04	0
	0.2%	68	0.04	0
	0.2%	68	0.04	0
	0.2%	68	0.04	0
220	0.2%	66	0.04	0
	0.2%	68	0.04	0
	0.2%	66	0.03	0
	0.2%	64	0.05	0
	0.8%	62	0.19	0
	0.6%	62	0.03	0
	0.2%	64	0.03	0
	0.2%	62	0.03	0
	0.5%	62	0.10	0
	0.2%	60	0.04	0
230	0.2%	58	0.03	0
	0.2%	58	0.04	0
	0.2%	60	0.04	0
	0.2%	60	0.04	0
	0.2%	60	0.04	0
	0.2%	60	0.03	0
	0.2%	64	0.04	0
	0.2%	66	0.03	0
	0.3%	66	0.05	0
	0.2%	68	0.04	0
240	0.2%	70	0.03	0

	0.1%	68	0.03	0
	0.2%	70	0.03	0
	0.1%	68	0.03	0
	0.3%	64	0.03	0
	0.2%	62	0.05	0
	0.2%	66	0.04	0
	0.2%	68	0.03	0
	0.4%	68	0.05	0
	0.2%	64	0.04	0
250	0.2%	64	0.04	0
	0.2%	64	0.04	0
	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.3%	64	0.06	0
	0.6%	66	0.03	0
	0.2%	62	0.03	0
	0.2%	62	0.04	0
	0.3%	62	0.05	0
	0.2%	64	0.03	0
260	0.2%	64	0.04	0
	0.3%	62	0.04	0
	0.2%	62	0.04	0
	0.3%	62	0.05	0
	0.3%	58	0.04	0
	0.2%	56	0.04	0
	0.2%	58	0.04	0
	0.2%	60	0.04	0
	0.1%	60	0.03	0
	0.2%	58	0.03	0
270	0.2%	60	0.03	0
	0.3%	60	0.04	0
	0.2%	60	0.03	0
	0.2%	58	0.03	0
	0.2%	58	0.03	0

	0.2%	60	0.04	0
	0.2%	58	0.04	0
	0.2%	58	0.03	0
	0.3%	54	0.05	0
	0.2%	54	0.04	0
280	0.1%	56	0.02	0
	0.3%	54	0.05	0
	0.1%	54	0.03	0
	0.0%	52	0.02	0
	0.5%	56	0.09	0
	0.6%	52	0.03	0
	0.3%	48	0.05	0
	0.2%	48	0.03	0
	0.3%	48	0.06	0
	0.1%	48	0.02	0

**Tabela 17:** 50 Objetos Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40	0.5%	2	0.08	0

	0.0%	4	0.00	0
	0.0%			
50				
		4	0.00	0
60	0.0%			
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
70				
			0.00	
	0.0%	4	0.00	0

80				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
90	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
100				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
110				



	0.0%	2	0.00	0
	0.0%	2	0.00	0
120				
	0.0%	2	0.00	0
	0.0%			
130				
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2		
140				

			0.00	0
	0.0%	2		0
150				
180				
			0.00	
	0.0%	2	0.00	0
190				
	0.0%	2	0.00	0
200				
210				

	0.0%	2	0.00	0
220				
260				
	0.0%	2	0.00	0
270				
280				

**Tabela 18:** 50 Objetos Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
60				
	0.5%	2	0.08	0
	0.0%			
70		4	0.00	0
	0.0%			
	0.0%			
80				
		4	0.00	0
		2		

	0.0%			
90				
			0.00	0
		2		0
	0.0%	2		
			0.00	
				0
	0.0%	2		0
100				
			0.00	
			0.00	
	0.0%	2	0.00	0
			0.00	0
110				

120	0.0%	2		
				0
130				
	0.0%	2	0.00	
140				0
	0.0%	2	0.00	
				0
	0.0%	2	0.00	
				0
150				
180				

	0.0%	2	0.00	
				0
190				
	0.0%	2	0.00	
				0
	0.0%	2	0.00	
				0
				0
				0
	0.0%	2	0.00	
200				
				0
210				
	0.0%	2	0.00	

				0
220				
230				
		2	0.00	
				0
240				
260				



	0.0%			
270		2	0.00	
				0
280				

**Tabela 19:** 50 Objetos Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	0.5%	2	0.09	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
50	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
60	0.0%	6	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	8	0.01	0
	0.1%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

70	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.1%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.02	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
80	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	30	0.00	0
90	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	30	0.00	0
	0.0%	16	0.00	0
	0.1%	16	0.03	0
	0.3%	16	0.02	0
	0.0%	14	0.00	0
100	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0

	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%		0.00	0
	0.0%	14	0.00	0
110	0.0%	26	0.00	0
	0.0%	14	0.01	0
	0.0%	14	0.01	0
		14		
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
120	0.0%	16	0.00	0
	0.0%	18	0.00	0
	0.5%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.01	0
	0.0%	32	0.00	0
	0.0%	16	0.00	0
	0.1%	18	0.02	0
130	0.5%	18	0.05	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.1%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	20	0.00	0
	0.0%	18	0.00	0

	0.0%	18	0.00	0
	0.0%	20	0.00	0
140	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	16	0.00	0
	0.0%		0.00	0
150	0.0%	32	0.00	0
	0.0%		0.00	0
	0.0%	18		
		18	0.01	0
	0.0%	18		
		18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	36	0.00	0
160	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.3%	18	0.02	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
170	0.0%	18	0.01	0
	0.0%	18	0.00	0

	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
180	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	20	0.00	0
190	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.1%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.1%	14	0.02	0
	0.0%	18	0.00	0
200	0.0%	18	0.00	0
	0.0%	14	0.01	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0

	0.0%	16	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
210	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.1%	14	0.01	0
	0.0%	14	0.02	0
	0.1%	14	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
220	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.3%	12	0.00	0
	0.5%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.08	0
	0.0%	12	0.02	0
	0.1%	14	0.00	0
230	0.0%	14	0.00	0
	0.0%	14	0.02	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0

240	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
250	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.3%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
260	0.0%	12	0.00	0
	0.0%	12	0.02	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
270	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0



	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
280	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.6%	12	0.00	0
	0.0%	12	0.00	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0

**Tabela 20:** 50 Objetos Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	3.8%	6	1.80	213300
	10.0%	3	0.86	106600
	2.0%	1	0.85	35500
	2.0%	1	0.32	35500
	1.9%	1	0.28	35500
	1.6%	1	0.29	35500
	1.7%	1	0.33	35500
	2.1%	1	0.27	35500
10	1.7%	1	0.28	35500
	1.6%	1	0.33	35500
	1.7%	1	0.28	35500
	2.1%	1	0.58	
	1.7%	1	0.58	35500

	1.6%	1		35500
	1.7%	1	0.28	35500
			0.32	35500
	1.5%	1	0.33	35500
	1.7%	1	0.33	
20	1.6%	1	0.28	35500
	3.1%	1	0.27	35500
		1	0.57	35500
	1.6%	1		35500
	1.6%		0.28	35500
	1.7%	1	0.33	35500
	1.8%	1	0.27	35500
	1.7%	1	0.31	35500
	1.0%	1	0.28	35500
	6.2%	1	0.27	35500
30	1.7%	1	0.33	35500
	1.9%	1	0.28	35500
	2.0%	1	0.33	35500
	1.7%	1	0.31	35500
	1.9%	1	0.33	35500
	1.7%	1	0.31	35500
	1.8%	1	0.33	35500
	1.7%	1	0.33	35500
	1.9%	1	0.33	35600
	1.8%	1	0.39	35500
40	1.9%	1	0.36	35500
	2.4%	1	0.33	35500
	2.1%	1	0.33	35500
	1.9%	1	0.29	35500
	1.8%	1	0.28	35500
	2.3%	1	0.37	35500
	1.7%	1	0.29	35600
	1.8%	1	0.34	35500
	1.9%	1	0.29	35500

	2.0%	1	0.33	35500
50	1.8%	1	0.33	35500
	1.7%	1	0.29	42700
	1.9%	1	0.37	35500
	2.0%	1	0.28	35500
	1.8%	1	0.33	35500
	1.7%	1	0.28	35500
	1.9%	1	0.34	35500
	1.8%	1	0.37	42700
	1.7%	1	0.28	35500
	2.0%	1	0.31	35500
60	1.7%	1	0.37	42700
	1.8%	1	0.33	35600
	1.1%	1	0.54	35500
	3.0%	1	0.40	35500
	1.8%	1	0.34	35500
	7.7%	1	0.31	35500
	2.3%	1	0.37	42700
	2.5%	1	0.30	35500
	1.8%	1	0.46	35500
	2.2%	1	0.37	35500
70	1.7%	1	0.33	106600
	2.0%	1	0.32	42700
	2.4%	1	0.38	49800
	1.9%	1	0.32	49800
	2.5%	1	0.37	49800
	2.0%	1	0.44	49800
	2.2%	1	0.46	64000
	2.5%	1	0.40	106600
	1.9%	1	0.46	85300
	2.2%	1	0.43	106600
80	2.5%	1	0.37	85300
	2.5%	1	0.46	85300
	2.3%	1	0.40	106600

	2.4%	1	0.42	85300
	2.2%	1	0.42	92400
	2.5%	1	0.46	99500
	3.2%	1	0.70	106600
	3.4%	1	0.47	106600
	2.6%	1	0.52	270200
	2.8%	1	0.48	128000
90	2.9%	1	0.53	135100
	2.8%	1	0.46	156400
	3.2%	1	0.73	170600
	3.2%	1	0.70	163500
	3.2%	1	0.52	170700
	3.4%	1	0.70	170600
	1.6%	2	0.70	156400
	3.0%	1	0.55	270200
	17.4%	1	0.56	270200
	3.5%	1	0.70	270200
100	3.2%	1	0.60	184800
	3.4%	1	0.66	184800
	4.8%	1	0.75	206200
	4.1%	1	0.65	241700
	4.1%	1	0.68	270200
	3.7%	1	0.69	277300
	4.0%	1		369700
	4.1%		0.74	277300
	3.8%	1	1.13	284400
	4.8%	2		291500
110	4.1%		0.63	298600
		1	0.75	
	3.8%	1	0.80	270200
	4.8%	1	0.78	500000
		1	0.73	369700
	3.3%	1	0.75	
	4.8%	1	0.75	277300

	4.0%	1	0.72	277300
	4.0%	1	0.70	327000
	4.8%	1	0.69	348400
120	4.8%	1	0.75	369700
	4.4%	1	0.73	362700
	5.8%	1	1.67	369700
	4.6%	1	2.03	376800
	4.6%	1	0.69	369700
	5.0%	1	0.70	369700
	4.2%	1	0.69	383900
	5.8%	2	0.72	398100
	4.1%	1	0.84	284400
	2.7%	1	0.65	362600
130	7.9%	1	0.69	376800
	20.7%	1	0.69	376800
	5.3%	1	0.69	369700
	4.0%	1	0.71	284400
	4.0%	1	0.68	700000
	5.8%	1	0.71	327000
	3.9%	1	0.67	305700
	4.2%	1	0.69	284400
	4.1%	2	0.66	284400
	3.8%	1	0.69	284400
140	4.2%	1	0.69	284400
	4.2%	2	0.69	291500
	4.1%	1	0.64	291500
	3.8%	1	0.70	270200
	4.2%	1	0.64	277300
	4.0%	1	0.61	277300
	3.8%	1		298600
	4.4%	1	1.20	277300
	4.0%	1		284400
	4.0%		0.66	255900
150	4.0%	2	0.69	270200

	3.8%		0.67	284400
	3.6%	1	0.69	284400
		1	1.51	284400
	5.9%	1	1.64	277300
		1	0.72	
	3.8%	1	0.72	500000
	3.8%	1	0.77	
	5.6%	1	0.76	277300
	5.6%	2	1.26	298600
160	4.1%	1	0.94	305700
	2.4%	1	0.89	305700
	6.6%	1	0.96	312800
	21.4%	1	0.87	298600
	4.7%	1	0.71	305700
	5.0%	1	0.72	305700
	6.4%	1	0.72	600000
	7.2%	1	0.71	291500
	5.3%	1	0.68	291500
	5.6%	1	0.67	284400
170	5.2%	1	0.67	277300
	4.4%	1	0.65	298600
	4.3%	1	0.63	298600
	4.3%	1	0.62	305700
	3.8%	1	0.65	305700
	4.2%	1	0.63	305700
	4.2%	1	0.64	298600
	3.8%	1	0.62	291500
	4.0%	1	0.61	291500
	4.1%	1	0.64	298600
180	3.7%	1	0.66	284400
	3.7%	1	0.65	291500
	3.9%	1	0.65	263000
	3.8%	1	0.66	263000
	3.7%	1	0.65	263000

	3.8%	1	0.65	270200
	3.8%	1	0.68	270200
	4.1%	1	1.17	277300
	3.9%	1	0.77	284400
	3.9%	1	0.63	291500
190	3.8%	1	0.68	291500
	4.0%	1	0.63	298600
	2.2%	1	0.65	298600
	3.9%	1	0.66	291500
	5.3%	1	0.63	284400
	15.6%	1	0.64	291500
	4.9%	1	0.72	298600
	4.0%	1	0.65	291500
	3.5%	1	0.68	291500
	4.2%	1	0.63	284400
200	3.8%	1	0.67	263000
	3.9%	1	0.72	270200
	3.6%	1	0.65	277300
	4.2%	1	0.65	277300
	4.3%	1	0.62	270200
	4.3%	1	0.65	277300
	4.2%	1	1.08	284400
	3.9%	1	1.15	270200
	3.7%	1	0.72	270200
	4.2%	1	0.91	263000
210	4.0%	1	0.97	263000
	4.3%	1	0.67	255900
	3.6%	1	0.65	277300
	3.9%	1	0.62	270200
	6.5%	1	0.72	270200
	7.0%	1	0.61	263000
	5.3%	1	0.56	270200
	4.3%	1	0.64	270200
	3.9%	1	0.60	255900

	3.8%	1	2.08	255900
220	3.8%	1	0.65	263000
	3.8%	1	0.60	263000
	4.3%	1	0.92	263000
	3.7%	1	0.60	255900
	3.8%	1	0.56	220400
	8.8%	1	0.63	248800
	19.3%	1	0.60	255900
	3.8%	1	0.65	248800
	3.9%	1	0.57	248800
	3.8%	1	0.57	241700
230	4.8%	1	0.56	234600
	4.1%	1	0.64	234600
	3.6%	1	0.56	227500
	3.8%	1	0.57	220400
	4.0%	1	0.64	234600
	3.9%	1	0.59	234600
	3.4%	1	0.59	234600
	3.5%	1	0.60	220400
	3.5%	1	0.59	220400
	3.2%	1	0.64	248800
240	3.5%	1	0.60	220400
	3.8%	1	0.71	213300
	3.6%	1	0.64	227500
	3.5%	1	0.66	241700
	3.2%	1	0.63	248800
	4.0%	1	0.62	248800
	4.0%	1	0.62	255900
	2.7%	1	0.64	263000
	5.5%	1	0.58	248800
	4.1%	1	0.57	248800
250	3.4%	1	0.60	248800
	4.0%	1	0.84	241700
	3.7%	1	1.02	241700



	4.9%	1	0.57	241700
	3.7%	1	0.59	227500
	3.9%	1	0.58	248800
	3.3%	1	0.56	248800
	3.6%	1	0.59	241700
	1.9%	1	0.57	227500
	18.4%	1	0.60	234600
260	3.4%	1	0.59	234600
	3.5%	1	0.62	227500
	3.4%	1	0.62	234600
	3.4%	1	0.62	220400
	3.5%	1	0.62	234600
	3.4%	1	0.61	241700
	3.4%	1	0.57	234600
	3.4%	1	0.57	213300
	3.7%	1	0.60	234600
	3.7%	1	0.59	227500
270	3.5%	1	0.64	227500
	3.9%	1	0.59	227500
	3.2%	1	0.55	227500
	3.6%	1	0.54	227500
	3.5%	1	0.59	227500
	3.7%	1	0.59	227500
	3.7%	1	0.55	220400
	3.5%	1	0.66	220400
	3.3%	1	0.54	220400
	3.7%	1	0.55	227500
280	3.7%	1	1.12	227500
	3.4%	1	0.58	220400
	2.9%	1	1.02	220400
	4.4%	1	0.60	220400
	3.2%	1	0.55	220400
	1.8%	1	0.58	213300
	5.9%	1	0.72	213300

	18.1%	1	0.53	213300
	3.7%	1	0.54	213300
	3.3%	1	0.58	213300

#### A.1.4 CEM OBJETOS

**Tabela 21:** 100 Objetos Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.0%	8	0.00	0
	0.0%	4	0.00	0
40	0.0%			

		4	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6		0
50			0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	20	0.01	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
60	0.1%	10	0.02	0
	0.0%	6	0.00	0
	0.1%	8	0.01	0
	0.1%	16	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.00	0
70	0.0%	30	0.01	0
	0.1%	24	0.02	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.1%	6	0.01	0
	0.0%	8	0.00	0

	0.0%	4	0.00	0
	0.0%	16	0.00	0
80	0.0%	16	0.00	0
	0.0%	18	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.01	0
	0.0%	22	0.00	0
	0.0%	10	0.01	0
	0.2%	22	0.03	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.00	0
90	0.0%	22	0.00	0
	0.0%	20	0.00	0
	0.0%	24	0.01	0
	0.0%	14	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
100	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
110	0.0%	6	0.00	0
	0.0%	4	0.00	0

	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
120	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
130	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
140	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
150	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
160	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%			
		10	0.00	0
	0.0%			

180		4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
190				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
200	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
210	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0

	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
220	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
230	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2		0
			0.00	
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
240	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0



	0.0%	2	0.00	0
	0.0%	4	0.00	0
250	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
260	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6		0
			0.00	
	0.0%	2	0.00	0
270	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
280	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2		0
			0.00	
	0.0%	4	0.00	0
	0.0%	6	0.01	0
290	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
300	0.0%	8	0.00	0

**Tabela 22:** 100 Objetos Pre-Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

40				
		2	0.13	0
50	0.0%			
	0.0%	2	0.00	0
	0.0%			0
	0.0%	4	0.00	
		6	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
				0
60				
	0.0%	4	0.00	
				0
	0.0%	2	0.00	
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
70	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0

	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
80	0.0%	14	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
90	0.1%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.02	0
100	0.1%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
110	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
				0
	0.0%	10	0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
120	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8		0
	0.0%		0.00	
		2	0.00	0
	0.0%	6	0.00	0
130	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4		0
			0.00	0
140	0.0%	4		

			0.00	0
	0.0%	6	0.00	
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
150	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4		0
			0.00	
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
				0
160	0.0%	4	0.00	
				0
	0.0%	6	0.00	
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%			
		4	0.00	0
	0.0%			
170		8	0.00	0
	0.0%	2		
	0.0%			
			0.00	0
		4	0.00	0

	0.0%	4		0
		2		
			0.00	
	0.0%		0.00	0
				0
180	0.0%	2	0.00	
	0.0%	4	0.00	0
				0
	0.0%	4	0.00	
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
190	0.0%	8	0.00	0
	0.0%			0
	0.0%	2	0.00	0
		6	0.00	
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.01	0
200	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.1%	16	0.02	0
	0.0%	6	0.01	0
	0.0%	2	0.00	0

	0.0%	8	0.00	0
210	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
				0
220				
	0.0%	8	0.00	
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%			0
		6	0.00	0
	0.0%	8	0.00	
	0.0%	2		0
				0
230			0.00	0
	0.0%	6	0.00	
	0.0%			
		10	0.00	0
	0.0%	6	0.00	
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
240	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0



	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
250	0.0%	4	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
		4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.02	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
260				0
	0.0%	6	0.00	
				0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
270				0
	0.0%	4	0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0

			0.00	
	0.0%	2	0.00	0
280	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
290	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
300	0.0%	2	0.00	0

**Tabela 23:** 100 Objetos Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.06	0

	0.0%	20	0.00	0
	0.0%	20	0.06	0
	0.0%	146	0.01	0
	0.0%	146	0.01	0
10	0.3%	20	0.00	0
	0.3%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
20	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.2%		0.00	
	0.0%	20	0.01	0
		20		0
	0.0%	40	0.01	0
	0.2%		0.01	
		20		0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
30	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.1%	20	0.00	0
	0.0%	20	0.00	0
	0.2%	20	0.01	0
	0.2%	20	0.01	0
	0.2%	20	0.03	0
	0.3%	20	0.04	0
	0.0%	20	0.01	0

40	0.1%	20	0.00	0
	0.0%	28	0.00	0
	0.1%	50	0.00	0
	0.3%	32	0.01	0
	0.1%	32	0.06	0
	0.2%	32	0.06	0
	0.0%	32	0.04	0
	0.1%	50	0.04	0
	0.1%	32	0.01	0
	0.1%	34	0.01	0
50	0.1%	48	0.01	0
	0.1%	48	0.04	0
	0.1%	50	0.01	0
	0.1%	48	0.02	0
	0.1%	50	0.01	0
	0.1%	52	0.01	0
	0.2%	58	0.02	0
	0.2%	58	0.04	0
	0.1%	58	0.04	0
	0.2%	100	0.02	0
60	0.2%	62	0.03	0
	0.2%	70	0.02	0
	0.2%	88	0.03	0
	0.2%	94	0.04	0
	0.2%	100	0.03	0
	0.2%	94	0.04	0
	0.5%	100	0.04	0
	0.3%	84	0.07	0
	0.2%	84	0.05	0
	0.2%	92	0.04	0
70	0.3%	100	0.03	0
	0.3%	104	0.04	0
	0.3%	112	0.03	0
	0.3%	134	0.04	0

	0.3%	150	0.05	0
	0.4%	152	0.04	0
	0.4%	160	0.06	0
	0.3%	154	0.06	0
	0.3%	162	0.06	0
	0.3%	164	0.07	0
80	0.4%	156	0.06	0
	0.4%	152	0.08	0
	0.3%	160	0.08	0
	0.3%	148	0.06	0
	0.3%	160	0.07	0
	0.5%	148	0.07	0
	0.4%	154	0.06	0
	0.4%	160	0.08	0
	0.4%	172	0.05	0
	0.6%	178	0.06	0
90	0.3%	182	0.08	0
	0.5%	182	0.09	0
	0.6%	176	0.08	0
	0.5%	176	0.07	0
	0.6%	218	0.07	0
	0.6%	192	0.07	0
	0.5%	206	0.08	0
	0.6%	218	0.08	0
	1.8%	216	0.09	0
	0.6%	222	0.08	0
100	0.5%	226	0.10	0
	0.7%	218	0.12	0
	0.4%	218	0.08	0
	0.5%	218	0.20	0
	0.4%	162	0.09	0
	0.4%	202	0.09	0
	0.4%	162	0.10	0
	0.4%	190	0.12	0

	0.4%	184	0.08	0
	0.4%	174	0.08	0
110	0.8%	166	0.08	0
	0.8%	172	0.09	0
	0.5%	166	0.07	0
	0.3%	166	0.07	0
	0.4%	160	0.07	0
	0.5%	162	0.09	0
	0.4%	162	0.07	0
	0.4%	158	0.07	0
	0.8%	160	0.08	0
	0.4%	164	0.06	0
120	0.8%	166	0.07	0
	0.5%	166	0.07	0
	0.6%	166	0.09	0
	0.5%	170	0.07	0
	0.5%	170	0.08	0
	0.4%	170	0.12	0
	0.5%	168	0.08	0
	0.5%	172	0.10	0
	0.4%	182	0.08	0
	0.3%	184	0.07	0
130	0.5%	184	0.07	0
	0.5%	178	0.08	0
	0.5%	170	0.08	0
	0.4%	174	0.17	0
	0.6%	170	0.07	0
	0.7%	172	0.10	0
	0.5%	178	0.07	0
	0.5%	180	0.13	0
	2.1%	192	0.08	0
	0.5%	184	0.08	0
140	0.4%	192	0.09	0
	0.5%	180	0.08	0

	0.4%	186	0.08	0
	2.1%	186	0.08	0
	0.6%	186	0.10	0
	0.5%	184	0.08	0
	0.5%	192	0.09	0
	0.4%	190	0.08	0
	2.1%	192	0.07	0
	0.5%	196	0.08	0
150	0.4%	196	0.10	0
	0.4%	192	0.08	0
	0.5%	178	0.08	
	0.4%	188		0
		188	0.11	0
	0.3%	184	0.16	0
	2.1%	178	0.10	0
	0.4%	178	0.07	0
	0.4%	178	0.08	0
	0.4%	182	0.07	0
160	0.4%	178	0.08	0
	0.3%		0.10	0
	1.7%	176	0.18	0
	0.4%	178	0.07	0
	0.5%	346	0.09	0
	0.4%	172	0.10	0
	0.4%	170	0.07	0
	0.5%	174	0.09	0
	0.4%	188	0.10	0
	0.5%	176	0.10	0
170	0.5%	178	0.08	0
	0.6%	178	0.10	0
	0.4%	172	0.07	0
	0.5%	188	0.10	0
	0.4%	182	0.07	0
	0.5%	180	0.10	0

	0.4%	180	0.07	0
	0.4%	188	0.09	0
	0.4%	180		
	0.4%	174	0.15	0
180	0.5%	176		0
	0.5%	180	0.10	
		184	0.07	0
	0.7%	182	0.10	0
		182	0.07	0
	0.4%	184	0.08	0
	0.4%		0.10	0
	0.5%	362	0.07	0
	0.5%		0.09	0
	0.4%	188	0.08	0
190	0.5%	188	0.07	0
	0.4%	180	0.09	0
	0.6%	196	0.08	0
	0.4%	196	0.25	0
	0.5%	196	0.10	0
	0.5%	180	0.12	0
	0.4%	196	0.07	0
	0.5%	196	0.19	0
	0.4%	198	0.09	0
	0.5%	194	0.09	0
200	0.4%	188	0.06	0
	0.5%	184	0.07	0
	1.8%	188	0.05	0
	0.5%	186	0.09	0
	1.2%	184	0.07	0
	0.3%	180	0.07	0
	0.7%	174	0.07	0
	0.4%	170	0.08	0
	1.2%	170	0.06	0
	0.5%	166	0.08	0



210	0.5%	162	0.06	0
	0.5%	162	0.07	0
	0.4%	150	0.10	0
	0.4%	150	0.09	0
	0.4%	158	0.07	0
	0.4%	158	0.07	0
	0.4%	156	0.07	0
	0.3%	160	0.06	0
	0.5%	162	0.07	0
	0.3%	160	0.06	0
220	0.4%	148	0.07	0
	0.3%	160	0.13	0
	0.4%	162	0.07	0
	0.4%	164	0.08	0
	0.4%	170	0.06	0
	0.4%	176	0.07	0
	0.4%	168	0.10	0
	0.4%	166	0.10	0
	0.7%	160	0.23	0
	0.4%	158	0.06	0
230	0.5%	156	0.07	0
	0.4%	162	0.07	0
	0.4%	164	0.06	0
	0.4%	140	0.08	0
	0.4%	148	0.08	0
	0.4%	148	0.08	0
	0.4%	164	0.08	0
	0.4%	160	0.07	0
	0.3%	160	0.06	0
	1.1%	156	0.07	0
240	0.4%	154	0.06	0
	0.4%	146	0.06	0
	1.7%	158	0.09	0
	0.4%	154	0.06	0

	0.5%	152	0.06	0
	0.4%	160	0.11	0
	0.4%	158	0.06	0
	1.2%	152	0.07	0
	0.4%	150	0.06	0
	0.5%	152	0.06	0
250	0.4%	150	0.06	0
	0.4%	150	0.06	0
	0.4%	146	0.07	0
	0.5%	154	0.07	0
	0.5%	146	0.07	0
	0.5%	148	0.23	0
	0.4%	146	0.06	0
	0.4%	146	0.06	0
	0.4%	146	0.06	0
	0.3%	150	0.06	0
260	0.5%	154	0.08	0
	0.3%	150	0.07	0
	0.4%	146	0.07	0
	0.5%	144	0.06	0
	0.4%	138	0.09	0
	0.4%	138	0.09	0
	0.4%	140	0.06	0
	0.3%	140	0.06	0
	0.4%	138	0.06	0
	0.3%	156	0.06	0
270	0.4%	138	0.09	0
	0.4%	146	0.07	0
	0.4%	146	0.09	0
	0.2%	148	0.06	0
	1.7%	146	0.06	0
	1.7%	146	0.07	0
	0.5%	146	0.06	0
	0.5%	148	0.08	0

	0.3%	150	0.07	0
	0.4%	148	0.10	0
280	0.4%	146	0.08	0
	0.4%	144	0.07	0
	0.4%	142	0.08	0
	0.5%	142	0.06	0
	0.5%	144	0.06	0
	0.5%	146	0.06	0
	0.4%	146	0.06	0
	0.3%	148	0.17	0
	0.4%	150	0.07	0
	0.5%	150	0.08	0
290	0.4%	150	0.08	0
	0.5%	152	0.07	0
	0.3%	150	0.25	0
	0.4%	146	0.08	0
	0.4%	148	0.11	0
	0.3%	148	0.06	0
	0.4%	148	0.07	0
	0.4%	148	0.07	0
	0.5%	150	0.07	0
	0.3%	150	0.08	0
300	1.1%	154	0.07	0

**Tabela 24:** 100 Objetos Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

	0.6%	2	0.09	0
10				
	0.0%	4	0.00	0
	0.0%			
20				
		4	0.00	0
30	0.0%			
		4	0.00	0
	0.0%	4	0.00	0
	0.0%	2		0
40				

			0.00	
	0.0%	4	0.00	0
50				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
60	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
70				
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
80	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2		
90				
			0.00	0
	0.0%	2		
100				
300				

**Tabela 25:** 100 Objetos Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
30				
	1.9%	2		0
			0.01	
40	0.0%	4		0
	0.0%			0
50				
			0.00	
		4		
	0.0%			0

			0.00	
		2		
	0.0%	2		0
60				
			0.00	
	0.0%	2		0
				0
70				
			0.00	
			0.00	
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
80				



90				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
100				
300				

**Tabela 26:** 100 Objetos Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10	0.0%	2	0.09	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	6	0.01	0
20	0.0%	6		0
		6	0.00	0
	0.1%			
		6	0.01	0
	0.0%	12	0.00	0
	0.0%	18	0.01	0
	0.0%		0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.01	
	0.0%	6	0.01	0
30	0.1%	6	0.01	0
	0.0%	6	0.04	0
	0.2%	10	0.01	0
	0.1%	10	0.01	0
	0.0%	10	0.05	0
	0.0%	8	0.01	0
	0.3%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	22	0.01	0
	0.0%	14	0.01	0
40	0.2%	14	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0
50	0.0%	14	0.00	0

	0.0%	14	0.01	0
	0.0%	22	0.01	0
	0.0%	14	0.01	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
60	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.04	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	18	0.01	0
	0.0%	16	0.00	0
70	0.0%	16	0.00	0
	0.0%	16	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	16	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
80	0.0%	20	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0

	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
90	0.0%	22	0.02	0
	0.0%	22	0.02	0
	0.1%	22	0.01	0
	0.1%	22	0.01	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
	0.3%	24	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
100	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.03	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
110	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.02	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0

	0.1%	22	0.00	0
120	0.0%	22	0.00	0
	0.0%	22	0.03	0
	0.0%	22	0.03	0
	0.0%	22	0.00	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.03	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
130	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.03	0
	0.0%	22	0.01	0
	0.1%	22	0.00	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
140	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.1%	22	0.00	0
	0.0%	22	0.01	0
	0.1%	22	0.02	0
	0.0%	22	0.01	0
	0.0%	22		0
	0.0%	22	0.01	0
	0.0%	22	0.03	0
150	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0

		22	0.01	0
	0.4%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	
	0.0%	22	0.01	0
160	0.1%		0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.03	0
	0.5%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
170	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22		0
	0.0%	22	0.02	0
	0.0%	22	0.01	0
	0.0%	22		0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
		22	0.01	0
	0.1%	22	0.01	0
180	0.0%	22	0.01	0
		22	0.00	0
	0.0%	22	0.01	0
	0.0%	22	0.02	
	0.0%		0.01	0
	0.0%	44	0.01	
	0.0%		0.01	0

	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
190	0.0%	22	0.07	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.06	0
	0.0%	22	0.01	0
	0.5%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
200	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
210	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
	0.0%	22	0.00	0
	0.0%	22	0.01	0
	0.1%	22	0.00	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
	0.0%	22	0.01	0
220	0.0%	22	0.01	0

	0.0%	22	0.00	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
	0.0%	22	0.00	0
	0.1%	22	0.01	0
230	0.0%	18	0.00	0
	0.0%	22	0.00	0
	0.0%	22	0.00	0
	0.0%	22	0.03	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	18	0.01	0
	0.0%	22	0.00	0
	0.0%	18	0.04	0
	0.0%	22	0.00	0
240	0.0%	22	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.04	0
250	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.04	0
	0.0%	18	0.00	0
	0.3%	18	0.01	0



	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	22	0.00	0
	0.0%	18	0.04	0
	0.0%	18	0.00	0
260	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.1%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.04	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
270	0.0%	22	0.01	0
	0.2%	18	0.01	0
	0.1%	22	0.01	0
	0.0%	18	0.01	0
	0.0%	22	0.01	0
	0.0%	18	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.2%	22	0.01	0
280	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.00	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0

	0.0%	22	0.01	0
290	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
300	0.0%	22	0.01	0

**Tabela 27:** 100 Objetos Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	4.1%	1	0.44	71100
	3.0%	1	0.52	71100
	2.4%	1	0.40	71100
	2.5%	1	0.41	71100
	2.9%	1	0.50	71100
	2.4%	1	0.41	71100
	2.4%	1	0.40	71100
	3.1%	1	0.52	71100
	3.4%	1	0.54	71200
10	3.2%	1	0.54	71100
	3.4%	1	0.59	71100
	2.7%	1	0.45	71100
	2.8%	1	0.46	71100
	3.5%	1	0.60	71100
	2.8%	1	0.45	71100
	3.0%	1	0.49	71100
	3.8%	1	0.71	71200

	3.0%	1	0.48	71100
	2.9%	1	0.44	71100
20	3.0%	1	0.51	71100
	3.0%	1	0.53	71100
	4.9%	2	0.88	142200
	2.4%	1	0.42	71100
	2.4%	1	0.43	71100
	3.3%	1	0.53	71100
	2.8%	1	0.46	71100
	2.6%	1	0.45	71200
30	2.4%	1	0.63	71100
	12.9%	1	1.25	71100
	2.8%	1	0.46	71100
	8.6%	1	1.28	71100
	6.1%	1	1.03	71100
	3.9%	1	0.63	71200
	5.5%	1	0.94	71100
	3.3%	1	0.57	71100
	3.1%	1	0.51	99500
	4.3%	1	0.73	113800
40	6.0%	1	1.04	113800
	4.9%	1	0.84	113800
	4.9%	1	0.81	113800
	3.4%	1	0.55	113800
	3.8%	1	0.63	128000
	5.4%	1	0.90	156400
	4.0%	1	0.68	170600
	4.0%	1	0.65	170600
	4.4%	1	0.69	170600
	3.3%	1	0.56	170600
50	3.6%	1	0.58	184800
	4.4%	1	0.72	199100

	3.6%	1	0.63	213300
	5.0%	1	0.90	220400
	5.0%	1	0.82	255900
	4.2%	1	0.67	263000
	4.5%	1	0.74	298600
	5.3%	1	0.89	334100
	4.6%	1	0.74	312800
	4.9%	1	0.82	348400
60	5.4%	1	0.91	348400
	3.3%	1	0.79	334100
	9.3%	1	1.13	355500
	6.7%	1	0.94	376800
	5.2%	1	0.86	383900
	5.3%	1	0.89	391000
	5.6%	1	0.95	398100
	5.4%	1	0.95	455000
	7.1%	1	1.07	500000
	6.7%	1	1.16	600000
70	6.7%	1	1.09	600000
	6.7%	1	1.15	600000
	7.1%	1	1.17	600000
	6.9%	1	1.16	600000
	7.7%	1	1.31	600000
	8.0%	1	1.32	600000
	7.5%	1	1.28	600000
	7.2%	1	1.15	600000
	7.2%	1	1.22	600000
	7.7%	1	1.14	600000
80	6.8%	1	1.15	600000
	7.4%	1	1.24	700000
	7.2%	1	1.22	700000
	7.8%	1	1.26	700000
	7.2%	1	1.26	700000
	7.8%	1	1.23	700000

	6.7%	1	1.33	700000
	9.1%	1	1.28	700000
	7.8%	1	1.27	800000
	8.7%	1	1.38	800000
90	7.5%	1	1.33	800000
	8.6%	1	1.38	800000
	5.9%	1	1.45	800000
	15.9%	1	1.80	800000
	9.5%	1	1.34	800000
	8.5%	1	1.35	800000
	7.9%	1	1.38	900000
	8.7%	1	1.37	800000
	7.3%	1	1.27	700000
	8.1%	1	1.31	700000
100	7.2%	1	1.28	700000
	7.1%	1	1.25	700000
	8.3%	1	1.33	700000
	9.1%	1	1.38	600000
	7.5%	1	1.37	600000
	7.9%	1	1.30	600000
	7.9%	1	1.26	600000
	7.4%	1	1.14	600000
	6.7%	1	1.15	600000
	7.0%	1	1.13	600000
110	6.9%	1	1.19	600000
	6.6%	1	1.11	600000
	7.4%	1	1.18	600000
	6.5%	1	1.13	600000
	6.8%	1	1.18	700000
	11.1%	1	1.72	700000
	7.1%	1	1.19	700000
	7.0%	1	1.17	700000
	7.2%	1	1.16	600000
	7.0%	1	1.19	600000

120	7.2%	1	1.15	600000
	6.8%	1	1.14	600000
	6.8%	1	1.18	600000
	4.6%	1	1.17	600000
	18.5%	1	1.99	700000
	8.5%	1	1.16	700000
	6.9%	1	1.21	700000
	8.0%	1	1.24	700000
	7.1%	1	1.20	700000
	7.8%	1	1.28	700000
130	8.5%	1	1.61	700000
	8.4%	1	1.20	700000
	7.3%	1	1.23	700000
	7.9%	1	1.35	700000
	7.8%	1	1.33	700000
	8.6%	1	1.36	700000
	7.3%	1	1.24	700000
	7.7%	1	1.21	700000
	6.9%	1	1.18	700000
	7.3%	1	1.19	700000
140	6.7%	1	1.14	700000
	6.7%	1	1.13	700000
	7.0%	1	1.13	700000
	6.9%	1	1.12	600000
	7.4%	1	1.26	600000
	6.8%	1	1.14	600000
	43.5%	1	13.67	600000
	33.9%	2	2.53	1200000
	6.9%	1	1.06	600000
150	6.7%	1	1.09	600000
	6.5%	1	1.11	600000
	6.2%	1	1.09	600000
	4.4%	1	1.14	600000

	19.4%	1	2.02	600000
	9.1%	1	1.18	600000
	7.3%	1	1.23	600000
	8.2%	1	1.32	700000
	7.5%	1	1.30	600000
	7.8%	1	1.22	600000
160	7.8%	1	1.39	600000
	7.5%	1	1.25	600000
	7.8%	1	1.28	600000
	8.1%	1	1.29	600000
	6.8%	1	1.10	600000
	6.5%	1	1.15	600000
	7.5%	1	1.17	700000
	6.6%	1	1.12	700000
	6.7%	1	1.13	600000
170	10.8%	2	2.16	1300000
	6.4%	1	1.21	700000
	7.6%	1	1.18	700000
	7.1%	1	1.27	700000
	7.4%	1	1.22	700000
	7.4%	1	1.19	700000
	7.2%	1	1.22	700000
	7.4%	1	1.23	700000
	7.7%	1	1.23	700000
180	7.2%	1	1.22	700000
	7.1%	1	1.19	700000
	8.3%	1	1.36	700000
	6.8%	1	1.19	700000
	5.3%	1	1.35	700000
	22.6%	1	3.10	700000
	12.6%	1	1.43	700000
	10.7%	1	1.66	700000

	10.4%	1	1.69	700000
	8.1%	1	1.41	700000
190	11.5%	1	1.87	600000
	7.8%	1	1.29	600000
	7.6%	1	1.21	600000
	7.2%	1	1.23	600000
	7.2%	1	1.22	600000
	6.7%	1	1.11	600000
	7.4%	1	1.21	600000
	6.9%	1	1.14	600000
	8.0%	1	1.35	600000
	7.3%	1	1.22	600000
200	7.7%	1	1.27	600000
	7.0%	1	1.23	600000
	8.2%	1	1.30	600000
	6.9%	1	1.11	600000
	6.5%	1	1.11	600000
	6.7%	1	1.11	600000
	6.9%	1	1.10	600000
	6.5%	1	1.08	600000
	6.7%	1	1.16	600000
	6.8%	1	1.11	600000
210	6.9%	1	1.10	600000
	6.6%	1	1.07	600000
	6.5%	1	1.09	600000
	6.6%	1	1.09	600000
	6.0%	1	1.08	600000
	4.0%	1	1.08	600000
	14.9%	1	1.63	600000
	7.8%	1	1.10	600000
	6.9%	1	1.11	600000
	7.1%	1	1.12	600000
220	6.7%	1	1.12	600000
	6.7%	1	1.06	600000



	9.4%	1	1.74	600000
	7.4%	1	1.21	600000
	7.5%	1	1.17	600000
	7.5%	1	1.26	600000
	7.5%	1	1.23	600000
	7.0%	1	1.21	600000
	7.7%	1	1.25	600000
	7.2%	1	1.22	600000
230	7.9%	1	1.29	600000
	7.6%	1	1.28	600000
	7.1%	1	1.09	600000
	5.9%	1	1.05	600000
	6.3%	1	1.13	600000
	8.3%	1	1.18	600000
	7.3%	1	1.20	500000
	6.6%	1	1.08	500000
	6.0%	1	1.01	500000
	6.4%	1	1.01	500000
240	5.8%	1	1.00	500000
	6.4%	1	1.03	500000
	5.9%	1	1.00	500000
	5.9%	1	0.99	500000
	6.2%	1	1.02	500000
	5.8%	1	0.99	500000
	4.5%	1	1.11	500000
	14.7%	1	1.95	511900
	8.7%	1	0.96	511900
	6.1%	1	1.05	511900
250	6.0%	1	1.00	511900
	6.7%	1	1.13	500000
	6.8%	1	1.08	500000
	6.6%	1	1.16	500000
	7.3%	1	1.16	500000
	7.2%	1	1.21	500000

	7.2%	1	1.21	500000
	7.0%	1	1.15	500000
	6.5%	1	1.15	500000
	8.0%	1	1.26	500000
260	8.1%	1	1.32	500000
	6.0%	1	1.02	500000
	6.3%	1	1.05	500000
	6.6%	1	1.06	500000
	6.1%	1	1.00	500000
	6.0%	1	1.02	500000
	6.2%	1	1.05	500000
	6.3%	1	1.07	500000
	7.1%	1	1.13	500000
	7.0%	1	1.40	500000
270	53.2%	1	14.32	500000
	21.7%	1	1.34	500000
	5.8%	1	1.00	500000
	6.4%	1	1.02	500000
	6.1%	1	1.01	500000
	5.8%	1	1.00	500000
	3.6%	1	1.01	500000
	17.3%	1	1.80	500000
	7.3%	1	0.95	500000
	6.3%	1	1.04	500000
280	6.5%	1	1.09	500000
	7.1%	1	1.18	600000
	9.9%	1	2.03	500000
	9.0%	1	1.16	500000
	7.2%	1	1.22	500000
	7.4%	1	1.18	600000
	7.5%	1	1.26	600000
	7.5%	1	1.22	600000
	7.0%	1	1.22	600000
	7.3%	1	1.16	600000

290	6.3%	1	1.06	600000
	3.8%	1	1.04	600000
	10.9%	1	1.16	600000
	8.9%	1	1.07	600000
	8.5%	1	1.59	600000
	7.2%	1	1.10	600000
	6.5%	1	1.02	600000
	6.2%	1	1.05	600000
	6.4%	1	1.07	500000
	4.7%	1	1.04	500000
300	0.3%	1	1.03	600000

#### A.1.5 QUINHENTOS OBJETOS

**Tabela 28:** 500 Objetos Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.0%	8	0.02	0
		4	0.00	0
			0.02	0
60			0.00	0
	0.0%			
	0.0%	8		
	0.0%	8		
		8	0.00	0
		6	0.00	0
			0.00	0
	0.0%			0
	0.0%			0
70	0.0%	4		
	0.0%	4	0.00	
	0.0%	4	0.00	
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%	14	0.00	0
		6	0.00	0
	0.0%	10	0.00	0
	0.0%		0.00	0
80	0.0%	10	0.00	0
	0.0%	8		0
	0.0%	10	0.02	0
	0.0%	6	0.00	
	0.0%	18	0.00	0
	0.1%	38	0.00	0
	0.1%	20	0.00	0
	0.0%	14	0.03	0
	0.0%	6	0.02	0
	0.0%	14	0.00	0

90	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	6	0.00	0
	0.0%	20	0.00	0
	0.0%	26	0.00	0
	0.0%	10	0.00	0
	0.1%	18	0.01	0
	0.0%	26	0.00	0
	0.1%	10	0.01	0
100	0.0%	30	0.02	0
	0.0%	18	0.00	0
	0.0%	28	0.02	0
	0.0%	18	0.00	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.1%	30	0.00	0
	0.0%	22	0.01	0
110	0.2%	10	0.03	0
	0.0%	32	0.00	0
	0.0%	16	0.00	0
	0.0%	18	0.02	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
120	0.0%	18	0.00	0
	0.0%	30	0.00	0
	0.0%	22	0.01	0
	0.0%	20	0.01	0

	0.0%	16	0.00	0
	0.0%	28	0.00	0
	0.1%	24	0.01	0
	0.0%	32	0.01	0
	0.0%	22	0.00	0
	0.0%	28	0.02	0
130	0.0%	28	0.00	0
	0.0%	14	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.00	0
	0.1%	32	0.00	0
	0.0%	26	0.00	0
	0.0%	24	0.01	0
	0.1%	58	0.01	0
	0.1%	48	0.01	0
	0.1%	38	0.02	0
140	0.1%	44	0.01	0
	0.1%	34	0.02	0
	0.1%	54	0.03	0
	0.2%	38	0.03	0
	0.0%	58	0.02	0
	0.1%	26	0.01	0
	0.0%	52	0.03	0
	0.1%	26	0.01	0
	0.1%	30	0.02	0
	0.1%	44	0.01	0
150	0.1%	44	0.02	0
	0.1%	38	0.02	0
	0.0%	58	0.02	0
	0.1%	32	0.02	0
	0.1%	36	0.01	0
	0.1%	38	0.02	0
	0.2%	46	0.02	0
	0.1%	40	0.02	0

	0.1%	56	0.03	0
	0.1%	64	0.02	0
160	0.1%	58	0.02	0
	0.1%	52	0.03	0
	0.1%	62	0.02	0
	0.2%	68	0.02	0
	0.3%	88	0.02	0
	0.1%	64	0.03	0
	0.6%	72	0.04	0
	0.1%	74	0.03	0
	0.1%	44	0.12	0
	0.1%	46	0.02	0
170	0.2%	62	0.02	0
	0.1%	70	0.04	0
	0.2%	48	0.02	0
	0.3%	128	0.05	0
	0.1%	80	0.04	0
	0.3%	60	0.06	0
	0.2%	74	0.04	0
	0.2%	72	0.03	0
	0.2%	68	0.05	0
	0.2%	78	0.04	0
180	0.1%	64	0.04	0
	0.4%	136	0.04	0
	0.3%	126	0.04	0
	0.2%	78	0.08	0
	0.1%	66	0.04	0
	0.1%	52	0.04	0
	0.2%	70	0.04	0
	0.1%	82	0.02	0
	0.2%	56	0.03	0
	0.2%	66	0.04	0
190	0.6%	64	0.02	0
	0.3%	80	0.03	0

	0.2%	126	0.05	0
	0.2%	64	0.13	0
	0.1%	80	0.06	0
	0.2%	64	0.03	0
	0.2%	58	0.04	0
	0.2%	90	0.04	0
	0.1%	84	0.03	0
	0.1%	84	0.03	0
200	0.3%	64	0.04	0
	0.3%	128	0.04	0
	0.4%	122	0.04	0
	0.2%	162	0.12	0
	0.1%	80	0.08	0
	0.1%	58	0.09	0
	0.1%	66	0.03	0
	0.2%	68	0.02	0
	0.2%	90	0.03	0
	0.1%	80	0.03	0
210	0.2%	74	0.04	0
	0.2%	42	0.03	0
	0.2%	48	0.04	0
	0.1%	76	0.03	0
	0.2%	74	0.03	0
	0.2%	126	0.03	0
	0.1%	74	0.04	0
	0.2%	46	0.06	0
	0.1%	68	0.03	0
	0.1%	48	0.02	0
220	0.1%	58	0.03	0
	0.1%	54	0.02	0
	0.1%	68	0.03	0
	0.2%	58	0.02	0
	0.1%	48	0.03	0
	0.2%	62	0.03	0



	0.2%	60	0.03	0
	0.1%	46	0.03	0
	0.0%	48	0.04	0
	0.3%	52	0.03	0
230	0.3%	88	0.02	0
	0.1%	100	0.01	0
	0.2%	62	0.11	0
	0.1%	88	0.06	0
	0.1%	30	0.03	0
	0.1%	38	0.04	0
	0.2%	52	0.01	0
	0.1%	50	0.02	0
	0.1%	52	0.03	0
	0.2%	46	0.04	0
240	0.1%	46	0.03	0
	0.1%	60	0.02	0
	0.0%	40	0.02	0
	0.1%	24	0.02	0
	0.1%	44	0.01	0
	0.0%	42	0.02	0
	0.1%	30	0.05	0
	0.1%	48	0.02	0
	0.1%	36	0.01	0
	0.0%	52	0.02	0
250	0.1%	32	0.01	0
	0.1%	34	0.02	0
	0.0%	42	0.01	0
	0.2%	42	0.02	0
	0.0%	90	0.02	0
	0.1%	36	0.02	0
	0.1%	40	0.04	0
	0.1%	40	0.01	0
	0.2%	64	0.01	0
	0.2%	52	0.03	0

260	0.1%	104	0.05	0
	0.1%	30	0.02	0
	0.1%	44	0.05	0
	0.2%	46	0.01	0
	0.1%	44	0.03	0
	0.1%	54	0.02	0
	0.1%	44	0.03	0
	0.0%	44	0.02	0
	0.1%	32	0.02	0
	0.1%	36	0.01	0
270	0.0%	26	0.01	0
	0.1%	40	0.01	0
	0.1%	82	0.01	0
	0.0%	40	0.02	0
	0.0%	22	0.02	0
	0.1%	40	0.01	0
	0.1%	58	0.01	0
	0.0%	28	0.02	0
	0.0%	28	0.03	0
	0.1%	26	0.01	0
280	0.0%	38	0.01	0
	0.1%	28	0.01	0
	0.1%	36	0.01	0
	0.0%	32	0.01	0
	0.1%	16	0.02	0
	0.0%	28	0.02	0
	0.1%	30	0.00	0
	0.0%	26	0.01	0
	0.2%	34	0.02	0
	0.1%	82	0.01	0
290	0.1%	58	0.08	0
	0.1%	30	0.01	0
	0.0%	32	0.03	0
	0.0%	24	0.01	0

	0.1%	34	0.02	0
	0.1%	32	0.01	0
	0.0%	26	0.01	0
	0.1%	44	0.01	0
	0.1%	66	0.02	0
	0.2%	20	0.02	0
300	0.1%	34	0.03	0

**Tabela 29:** 500 Objetos Pre-Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.5%	10	0.09	0
	0.0%			
70				

		2		0
	0.0%		0.00	0
	0.0%	4	0.00	
		10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
				0
80				
	0.0%	6	0.00	
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
90	0.0%	4	0.00	0
	0.0%	20	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	16	0.00	0
	0.0%	18	0.00	0
100	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0

	0.0%	18	0.01	0
	0.0%	24	0.01	0
	0.0%	20	0.00	0
	0.0%	10	0.01	0
	0.0%	18	0.00	0
110	0.0%	20	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.01	0
	0.0%	34	0.03	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
120	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	20	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.01	0
	0.0%	14	0.01	0
130	0.0%	8	0.00	0
	0.0%	20	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.01	0

	0.0%	22	0.01	0
140	0.0%	30	0.01	0
	0.0%	20	0.01	0
	0.0%	32	0.01	0
	0.0%	38	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	62	0.04	0
	0.2%	26	0.01	0
	0.1%	24	0.01	0
	0.0%	20	0.01	0
150	0.0%	28	0.01	0
	0.0%	36	0.01	0
	0.0%	38	0.02	0
	0.1%	50	0.01	0
	0.1%	32	0.01	0
	0.0%	30	0.01	0
	0.0%	40	0.01	0
	0.1%	38	0.02	0
	0.1%	36	0.01	0
	0.1%	20	0.01	0
160	0.0%	62	0.02	0
	0.2%	54	0.01	0
	0.0%	30	0.04	0
	0.1%	32	0.01	0
	0.1%	34	0.02	0
	0.0%	30	0.01	0
	0.1%	40	0.01	0
	0.0%	52	0.02	0
	0.1%	62	0.02	0
	0.1%	46	0.03	0
170	0.1%	48	0.04	0
	0.0%	30	0.01	0
	0.1%	38	0.02	0

	0.1%	42	0.01	0
	0.1%	62	0.02	0
	0.0%	44	0.04	0
	0.2%	44	0.05	0
	0.1%	108	0.04	0
	0.2%	48	0.02	0
	0.3%	70	0.04	0
180	0.1%	48	0.06	0
	0.3%	68	0.02	0
	0.2%	44	0.02	0
	0.1%	48	0.04	0
	0.2%	52	0.04	0
	0.1%	54	0.06	0
	0.3%	116	0.09	0
	0.7%	68	0.04	0
	0.2%	70	0.02	0
	0.1%	50	0.02	0
190	0.1%	48	0.03	0
	0.2%	62	0.04	0
	0.0%	62	0.02	0
	0.1%	50	0.03	0
	0.1%	166	0.06	0
	0.2%	36	0.04	0
	0.0%	98	0.04	0
	0.2%	56	0.02	0
	0.2%	166	0.03	0
	0.1%	64	0.04	0
200	0.2%	68	0.04	0
	0.2%	70	0.03	0
	0.1%	74	0.03	0
	0.2%	72	0.05	0
	0.0%	58	0.02	0
	0.3%	150	0.12	0
	0.4%	166	0.10	0

	0.3%	168	0.08	0
	0.2%	84	0.04	0
	0.2%	72	0.04	0
210	0.1%	92	0.05	0
	0.3%	80	0.03	0
	0.1%	66	0.04	0
	0.2%	100	0.03	0
	0.2%	66	0.03	0
	0.1%	62	0.03	0
	0.1%	72	0.03	0
	0.2%	56	0.02	0
	0.1%	78	0.04	0
	0.3%	142	0.07	0
220	0.1%	56	0.02	0
	0.2%	76	0.03	0
	0.1%	66	0.03	0
	0.1%	72	0.03	0
	0.2%	74	0.03	0
	0.0%	56	0.02	0
	0.1%	88	0.05	0
	0.0%	62	0.04	0
	0.3%	54	0.03	0
	0.2%	62	0.02	0
230	0.2%	70	0.02	0
	0.1%	52	0.02	0
	0.1%	42	0.02	0
	0.1%	76	0.04	0
	0.3%	124	0.12	0
	0.2%	108	0.05	0
	0.0%	48	0.02	0
	0.2%	86	0.04	0
	0.3%	62	0.04	0
	0.0%	30	0.01	0
240	0.1%	50	0.02	0



	0.2%	30	0.01	0
	0.0%	58	0.03	0
	0.2%	24	0.01	0
	0.0%	28	0.03	0
	0.2%	46	0.02	0
	0.1%	32	0.01	0
	0.1%	24	0.03	0
	0.1%	42	0.02	0
	0.1%	46	0.02	0
250	0.1%	40	0.02	0
	0.1%	60	0.02	0
	0.2%	60	0.03	0
	0.1%	40	0.02	0
	0.0%	24	0.01	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.0%	58	0.01	0
	0.2%	112	0.02	0
	0.1%	44	0.03	0
260	0.1%	32	0.01	0
	0.1%	32	0.01	0
	0.0%	54	0.10	0
	0.3%	58	0.05	0
	0.2%	84	0.02	0
	0.2%	32	0.03	0
	0.1%	48	0.02	0
	0.1%	48	0.02	0
	0.1%	34	0.01	0
	0.1%	58	0.02	0
270	0.1%	58	0.02	0
	0.1%	42	0.02	0
	0.1%	52	0.03	0
	0.1%	44	0.02	0
	0.1%	36	0.02	0

	0.1%	46	0.01	0
	0.1%	38	0.02	0
	0.1%	34	0.02	0
	0.1%	38	0.03	0
	0.1%	46	0.02	0
280	0.0%	86	0.04	0
	0.2%	44	0.02	0
	0.0%	44	0.01	0
	0.1%	28	0.01	0
	0.1%	36	0.02	0
	0.0%	26	0.01	0
	0.0%	44	0.04	0
	0.2%	28	0.03	0
	0.2%	46	0.01	0
	0.1%	28	0.02	0
290	0.0%	44	0.01	0
	0.0%	26	0.00	0
	0.2%	80	0.08	0
	0.1%	66	0.04	0
	0.1%	28	0.02	0
	0.0%	30	0.02	0
	0.1%	38	0.02	0
	0.1%	46	0.01	0
	0.0%	24	0.01	0
	0.1%	32	0.01	0
300	0.0%	30	0.01	0

**Tabela 30:** 500 Objetos Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.3%	100	0.04	0
	0.3%	100	0.41	0
	0.3%	100	0.05	

	0.3%		0.41	0
	0.3%	100	0.05	0
		100		0
	0.3%	100	0.07	0
	0.3%	100	0.07	0
	0.3%	100	0.05	0
10	0.2%	100	0.07	0
	2.7%	100	0.04	0
	2.7%	100	0.07	0
	0.3%	100	0.05	0
	0.3%	100	0.04	0
	0.4%	100	0.05	0
	3.3%	100	0.06	0
	0.3%	100	0.05	0
	0.2%	100	0.06	0
	0.3%	100	0.04	0
20	0.3%	100	0.05	0
	0.6%	100	0.06	0
	0.2%	100	0.18	0
	1.1%	100	0.11	0
	0.5%	100	0.07	0
	0.3%	100	0.07	0
	0.6%	100	0.05	0
	0.3%	100	0.05	0
	0.4%	100	0.07	0
	0.4%	100	0.07	0
30	0.2%	100	0.04	0
	0.4%	100	0.05	0
	0.2%	100	0.05	0
	0.4%	100	0.06	0
	0.2%	100	0.04	0
	0.6%	100	0.04	0
	0.6%	100	0.10	0
	0.9%	100	0.15	0

	0.4%	100	0.06	0
	0.4%	100	0.05	0
40	0.4%	100	0.08	0
	0.3%	100	0.05	0
	0.3%	100	0.04	0
	0.4%	100	0.04	0
	0.3%	100	0.06	0
	0.4%	100	0.05	0
	0.3%	100	0.04	0
	0.2%	100	0.04	0
	0.3%	100	0.04	0
	0.3%	100	0.04	0
50	0.4%	100	0.05	0
	0.2%	100	0.06	0
	0.2%	100	0.04	0
	0.4%	100	0.04	0
	0.1%	100	0.14	0
	0.5%	100	0.12	0
	0.4%	100	0.04	0
	0.3%	200		
	1.0%	100	0.13	0
		128		0
60	0.6%		0.05	
		200	0.07	0
	0.2%		0.06	0
	0.4%	100	0.05	0
	0.3%	108	0.05	0
	0.4%	112	0.05	0
	0.3%	112	0.05	0
	0.4%	112	0.05	0
	0.3%	112	0.06	0
	0.3%	128	0.05	0
70	0.3%	112	0.05	0
	0.4%	128	0.05	0

	0.3%	114	0.05	0
	0.3%	122	0.05	0
	0.3%	128	0.06	0
	0.3%	128	0.06	0
	2.6%	128	0.05	0
	0.3%	128	0.07	0
	0.4%	132	0.08	0
	0.3%	134	0.06	0
80	0.4%	172	0.07	0
	0.5%	138	0.08	0
	0.4%	138	0.07	0
	2.6%	142	0.07	0
	2.6%	142	0.64	0
	0.7%	150	0.07	0
	0.2%	172	0.07	0
	2.6%	170	0.07	0
	0.8%	174	0.07	0
	0.4%	172	0.07	0
90	0.4%	348	0.08	0
	0.5%	176	0.12	0
	0.6%	172	0.10	0
	0.5%	182	0.11	0
	0.7%	190	0.11	0
	0.6%	220	0.11	0
	0.6%	236	0.13	0
	0.6%	228	0.12	0
	0.6%	238	0.11	0
	0.6%	242	0.10	0
100	0.8%	246	0.10	0
	0.6%	236	0.25	0
	0.6%	246	0.09	0
	0.6%	246	0.12	0
	0.5%	236	0.11	0
	0.8%	226	0.25	0

	0.6%	228	0.11	0
	0.5%	236	0.11	0
	0.6%	236	0.12	0
	0.7%	236	0.12	0
110	0.7%	266	0.15	0
	0.5%	264	0.11	0
	0.8%	276	0.12	0
	0.7%	270	0.25	0
	0.7%	290	0.25	0
	1.2%	318	0.15	0
	1.1%	298	0.11	0
	0.5%	290	0.13	0
	0.8%	318	0.24	0
	0.5%	282	0.16	0
120	3.6%	316	0.52	0
	1.2%	322	0.16	0
	0.8%	634	0.16	0
	1.2%	316	0.15	0
	0.9%	318	0.14	0
	0.9%	318	0.16	0
	1.0%	318	0.16	0
	3.1%	332	0.16	0
	1.0%	324	0.56	0
	0.9%	328	0.16	0
130	1.0%	436	0.16	0
	1.1%	436	0.16	0
	1.0%	322	0.18	0
	1.2%	322	0.16	0
	1.2%	346	0.21	0
	1.0%	358	0.19	0
	1.3%	360	0.21	0
	1.2%	380	0.19	0
	1.2%	384	0.19	0
	1.2%	436	0.19	0

140	1.3%	416	0.21	0
	1.1%	426	0.20	0
	1.4%	436	0.20	0
	1.1%	436	0.21	0
	1.4%	444	0.21	0
	2.7%	444	0.19	0
	2.1%	446	0.21	0
	1.3%	442	0.21	0
	1.7%	446	0.21	0
	1.6%	462	0.30	0
150	1.5%	480	0.22	0
	1.7%	1002	0.69	0
	1.7%	504	0.30	0
	1.7%	674	0.22	0
	1.6%	556	0.23	0
	1.5%	562	0.27	0
	1.7%	674	0.27	0
	1.0%	586	0.28	0
	2.7%	574	0.30	0
	1.7%	566	0.45	0
160	1.6%	580	0.29	0
	2.0%	578	0.28	0
	1.7%	674	0.26	0
	2.0%	572	0.45	0
	1.9%	572	0.97	0
	2.1%	590	0.27	0
	2.6%	582	0.27	0
	2.9%	924	0.30	0
	2.3%	592	0.31	0
	2.2%	616	0.97	0
170	1.4%	674	0.28	0
	3.5%	686	0.45	0
	2.8%	924	0.27	0
	3.3%	696	0.29	0

	3.1%	718	0.32	0
	2.8%	758	0.53	0
	2.8%	792	0.33	0
	1.4%	826	0.97	0
	3.7%	924	0.33	0
	3.1%	828	0.34	0
180	3.2%	812	0.52	0
	2.9%	830	0.68	0
	3.6%	1154	0.45	0
	3.2%	856	0.36	0
	3.1%	1712	0.53	0
	8.4%	886	0.38	0
	5.0%	908	0.37	0
	4.0%	924	1.01	0
	3.1%	1154	0.97	0
	3.2%	940	0.53	0
190	3.1%	964	0.68	0
	3.4%	1934	0.42	0
	2.0%	1154	0.53	0
	1.9%	988	1.34	0
	5.6%	1004	0.54	0
	5.5%	1048	0.68	0
	4.7%	1008	0.48	0
	3.5%	1032	0.50	0
	3.1%	1052	0.48	0
	2.8%	1046	0.93	0
200	2.6%	1062	0.49	0
	2.9%	1090	0.53	0
	3.1%	1142	1.34	0
	2.9%	1142	0.49	0
	2.8%	1048	0.62	0
	1.6%	1154	0.51	0
	4.0%	1148	1.34	0
	3.0%	1132	0.50	0



	2.9%	1048	0.48	0
	2.9%	1144	0.68	0
210	2.7%	1844	0.47	0
	2.9%	1170	1.87	0
	2.5%	2326	1.10	0
	3.3%	2214	0.48	0
	3.2%	2172	0.57	0
	2.5%	1078	0.56	0
	2.7%	1086	0.53	0
	1.3%	1052	0.52	0
	5.0%	950	0.58	0
	4.3%	1036	0.54	0
220	1.5%	1044	0.57	0
	4.6%	1844	2.00	0
	3.1%	1062	0.47	0
	2.8%	1048	1.34	0
	2.6%	1844	1.05	0
	3.0%	926	0.47	0
	2.4%	1046	0.51	0
	2.5%	2088	0.45	0
	2.6%	1046	0.52	0
	2.5%	1026	0.56	0
230	2.6%	1022	0.48	0
	2.9%	1004	0.48	0
	2.3%	988	0.56	0
	3.6%	950	0.47	0
	3.0%	986	0.48	0
	2.9%	950	0.44	0
	3.0%	966	0.53	0
	2.2%	948	0.98	0
	3.3%	1682	0.58	0
	2.7%	958	0.45	0
240	2.6%	926	0.48	0
	2.8%	976	0.45	0

	2.7%	926	0.45	0
	1.4%	948	0.47	0
	3.4%	1844	0.47	0
	2.4%	1820	0.45	0
	2.4%	908	0.57	0
	2.5%	1854	0.53	0
	1.7%	910	0.56	0
	4.3%	910	0.46	0
250	4.2%	898	0.45	0
	2.6%	920	0.54	0
	2.8%	912	0.44	0
	2.7%	936	1.70	0
	2.8%	950	0.88	0
	2.7%	1682	0.48	0
	2.7%	1682	0.45	0
	2.7%	968	0.88	0
	2.7%	946	0.45	0
	2.8%	954	0.43	0
260	2.5%	956	0.45	0
	2.8%	926	0.45	0
	2.4%	914	0.48	0
	2.4%	902	0.41	0
	1.4%	938	0.44	0
	2.3%	916	0.45	0
	3.1%	926	0.49	0
	2.3%	1822	0.54	0
	2.3%	924	0.54	0
	2.3%	1894	0.43	0
270	2.5%	964	0.49	0
	1.9%	946	0.41	0
	4.5%	942	0.43	0
	3.3%	954	0.45	0
	3.3%	940	0.45	0
	2.2%	936	0.46	0

	2.5%	938	0.46	0
	1.2%	916	0.48	0
	4.0%	904	0.45	0
	4.8%	910	0.86	0
280	3.5%	912	0.42	0
	2.9%	888	0.43	0
	2.7%	1750	0.48	0
	2.3%	854	1.17	0
	2.7%	854	0.94	0
	2.3%	844	0.48	0
	4.4%	856	0.43	0
	3.5%	840	0.46	0
	2.3%	848	0.44	0
	2.4%	852	0.48	0
290	2.9%	824	0.45	0
	2.4%	1682	0.49	0
	1.7%	836	0.47	0
	2.8%	840	0.44	0
	2.9%	1682	0.42	0
	2.4%	1684	0.41	0
	2.7%	840	0.41	0
	2.8%	840	0.41	0
	2.5%	834	0.45	0
	1.9%	834	0.82	0
300	0.1%	836	0.39	0

**Tabela 31:** 500 Objetos Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
20				
	0.5%	4	0.09	0
30				
	0.0%	8	0.00	0
40				

	0.0%	8	0.00	0
50				
	0.0%	8	0.01	0
	0.0%	4	0.00	0
60				
	0.0%	8	0.00	0
70				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
80	0.0%	4	0.00	0

	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
90				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
100				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
110				
	0.0%	2	0.00	0
	0.0%	2	0.00	0

120				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
130				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
140				
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
150				
	0.0%	2	0.00	0
	0.0%	4	0.01	0
160				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
170				
180				
	0.0%	2	0.00	0



	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
190	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
200	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
210				

	0.0%	2	0.00	0
220				
240	0.0%	2	0.00	0
250				
	0.0%	2	0.00	0
260				
	0.0%	2	0.00	0

270				
300				

**Tabela 32:** 500 Objetos Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.9%	4	0.10	0
	0.0%	8	0.00	0
60	0.0%			

70				
		8	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2		
			0.00	0
	0.0%	4		0
80				
			0.01	
	0.1%	6	0.01	0
90				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

100				
110				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
120				
	0.0%	2	0.00	0
130				
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2		
140			0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.01	0
150				
160				
	0.0%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170				

	0.0%	2	0.00	0
180				
190				
	0.0%	2	0.00	0
200				
	0.0%	2	0.00	0

210				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
220				
	0.0%	2	0.00	0
230				
250				
	0.0%	2	0.00	0
260				



300				

**Tabela 33:** 500 Objetos Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30	0.7%	4	0.10	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.03	0
	0.2%	4	0.03	0
	0.2%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.00	0
40	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
50	0.0%	12	0.00	0
	0.0%	20	0.02	0
	0.0%	20	0.02	0
	0.2%	40	0.03	0
	0.0%	16	0.00	0
	0.1%	16	0.02	0
	0.1%	52	0.03	0
	0.1%	28	0.03	0
60	0.1%	28	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
70	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	22	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
80	0.0%	24	0.01	0

	0.0%	60	0.01	0
	0.0%	24	0.01	0
	0.0%	28	0.01	0
	0.6%	60	0.14	0
	0.1%	28	0.01	0
	0.1%	32	0.01	0
	0.1%	32	0.01	0
	0.1%	32	0.01	0
	0.1%	32	0.01	0
90	0.1%	32	0.02	0
	0.1%	32	0.01	0
	0.0%	32	0.01	0
	0.1%	34	0.01	0
	0.1%	36	0.01	0
	0.1%	36	0.01	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	36	0.01	0
100	0.1%	36	0.01	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.2%	42	0.03	0
	0.1%	42	0.02	0
	0.2%	44	0.04	0
110	0.1%	46	0.02	0
	0.1%	46	0.02	0
	0.1%	48	0.02	0
	0.1%	48	0.03	0
	0.1%	46	0.04	0

	0.3%	88	0.05	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	42	0.02	0
	0.1%	44	0.02	0
120	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	46	0.02	0
130	0.1%	48	0.02	0
	0.1%	50	0.01	0
	0.1%	50	0.02	0
	0.1%	52	0.02	0
	0.1%	50	0.02	0
	0.0%	48	0.01	0
	0.1%	50	0.02	0
	0.1%	48	0.02	0
	0.1%	48	0.02	0
	0.1%	48	0.02	0
140	0.1%	50	0.02	0
	0.1%	48	0.01	0
	0.0%	48	0.02	0
	0.8%	46	0.20	0
	0.3%	92	0.06	0
	0.2%	44	0.02	0
	0.1%	44	0.02	0
	0.2%	44	0.04	0
	0.1%	48	0.02	0

	0.1%	48	0.02	0
150	0.2%	50	0.03	0
	0.1%	50	0.02	0
	0.1%	50	0.02	0
	0.1%	50	0.02	0
	0.1%	52	0.02	0
	0.1%	52	0.02	0
	0.2%	52	0.04	0
	0.1%	52	0.02	0
	0.2%	52	0.02	0
	0.1%	52	0.02	0
160	0.1%	54	0.02	0
	0.1%	58	0.03	0
	0.1%	58	0.03	0
	0.1%	58	0.02	0
	0.1%	58	0.02	0
	0.1%	54	0.02	0
	0.1%	54	0.02	0
	0.2%	54	0.04	0
	0.2%	54	0.03	0
	0.1%	52	0.02	0
170	0.1%	52	0.02	0
	0.2%	50	0.06	0
	0.3%	54	0.10	0
	0.3%	108	0.07	0
	0.4%	54	0.05	0
	0.1%	54	0.03	0
	0.2%	54	0.03	0
	0.1%	54	0.02	0
	0.1%	54	0.03	0
	0.1%	54	0.03	0
180	0.0%	54	0.03	0
	0.3%	106	0.07	0
	0.2%	52	0.03	0

	0.2%	52	0.03	0
	0.2%	52	0.03	0
	0.1%	52	0.02	0
	0.1%	54	0.02	0
	0.1%	54	0.03	0
	0.1%	54	0.02	0
	0.1%	54	0.03	0
190	0.3%	54	0.07	0
	0.2%	114	0.05	0
	0.2%	58	0.03	0
	0.2%	60	0.03	0
	0.1%	60	0.02	0
	0.1%	62	0.03	0
	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.3%	64	0.10	0
	0.4%	128	0.17	0
200	0.2%	128	0.07	0
	0.2%	126	0.05	0
	0.2%	64	0.03	0
	0.2%	62	0.03	0
	0.2%	64	0.03	0
	0.1%	66	0.03	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
210	0.1%	66	0.02	0
	0.1%	68	0.03	0
	0.3%	138	0.08	0
	0.2%	70	0.03	0
	0.2%	70	0.04	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0

	0.2%	66	0.03	0
	0.1%	62	0.02	0
	0.1%	62	0.03	0
220	0.6%	62	0.11	0
	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.02	0
	0.1%	64	0.03	0
	0.1%	64	0.03	0
	0.4%	128	0.15	0
	0.4%	128	0.08	0
	0.1%	64	0.03	0
	0.2%	126	0.05	0
230	0.2%	62	0.03	0
	0.1%	62	0.03	0
	0.1%	62	0.03	0
	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.03	0
	0.2%	62	0.04	0
240	0.2%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.03	0
	0.2%	64	0.04	0
	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.1%	64	0.03	0
	0.3%	128	0.07	0
250	0.3%	64	0.03	0

	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.1%	64	0.03	0
	0.3%	128	0.08	0
	0.2%	64	0.03	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.04	0
	0.1%	66	0.03	0
260	0.2%	66	0.04	0
	0.1%	64	0.03	0
	0.2%	64	0.03	0
	0.2%	64	0.03	0
	0.2%	64	0.03	0
	0.2%	64	0.03	0
	0.2%	64	0.03	0
	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.1%	64	0.03	0
	0.4%	128	0.08	0
270	0.2%	64	0.03	0
	0.3%	66	0.05	0
	0.2%	66	0.03	0
	0.2%	66	0.04	0
	0.2%	66	0.05	0
	0.5%	66	0.08	0
	0.3%	66	0.05	0
	0.3%	66	0.04	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
280	0.1%	66	0.03	0
	0.2%	132	0.08	0
	0.3%	132	0.07	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0



	0.2%	66	0.04	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.0%	66	0.03	0
290	0.3%	132	0.06	0
	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
300	0.2%	66	0.03	0

**Tabela 34:** 500 Objetos Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	10.2%	1	1.59	355500
	9.5%	1	1.78	355500
	9.5%			
	10.9%	1	2.43	355500
		1	1.62	355500
	12.3%	1	1.78	355500
	10.4%	1	1.78	355500
	10.6%	1	1.79	355500
	11.8%	1	2.24	355500
10	10.3%	1	1.73	355500
	11.8%	1	1.79	355500
	11.1%	1	2.24	455000
	9.8%	1	1.63	355500

	10.7%	1	1.65	455000
	13.0%	1	2.35	355500
	9.7%	1	1.64	355500
	36.8%	1	1.65	355500
	9.8%	1	3.00	355500
	9.7%	1	3.63	355500
20	36.8%	1	4.93	700000
	13.7%	1	3.00	355500
	10.4%	1	2.98	700000
	10.4%	1	2.98	700000
	6.0%	2	1.91	700000
	17.4%	1	2.05	355500
	46.5%	1	2.93	355500
	19.4%	1	2.22	355500
	11.9%	1	2.23	355500
	13.1%	1	2.45	355500
30	16.7%	1	2.19	355500
	13.9%	1	1.98	355600
	13.4%	1	1.77	355500
	14.5%	1	2.28	355500
	12.6%	1	1.77	355500
	13.4%	1	2.50	355500
	15.5%	1	1.77	355500
	14.1%	1	2.58	355500
	15.0%	1	1.80	355500
	13.3%	1	2.58	355600
40	15.0%	1	1.64	355500
	11.2%	1	1.66	355500
	10.6%	1	2.22	355500
	15.1%	1	1.74	355500
	10.4%	1	1.72	355500
	10.0%	1	2.31	355500
	12.5%	1	1.69	355500
	11.3%	1	2.22	355500

	9.9%	1	1.60	355500
	14.1%	1	1.85	355500
50	10.3%	1	2.37	355600
	10.4%	1	1.96	700000
	12.0%	1	3.98	355500
	12.6%	2	3.98	355500
	8.5%	1	3.98	700000
	12.0%	1	1.96	355500
	7.3%		2.30	355600
	7.3%	2		
	7.3%		4.06	700000
	39.4%	1		
60	16.6%	1	1.92	383900
	13.6%	1	2.43	398100
		1	2.00	398100
	19.0%	1	1.98	398100
		1	2.50	398100
	9.4%	1	1.79	412300
	15.7%	1	2.53	900000
	12.3%	1	3.16	440800
	12.3%	1	1.91	455000
	12.3%	1	1.77	455000
70	14.3%	1	1.77	455000
	11.8%	1	3.00	700000
	15.5%	1	3.16	900000
	36.8%	1	3.00	700000
	11.1%	1	1.77	455000
	36.8%	1	2.49	469200
	14.9%	1	1.79	497700
	11.8%	1	1.79	504800
	11.1%	1	2.48	500000
	13.3%	1	1.91	500000
80	11.4%	1	2.55	600000
	15.2%	1	2.07	600000

	11.1%	1	1.99	600000
	10.9%	1	2.65	600000
	12.0%	1	3.00	700000
	12.1%	1	9.00	600000
	36.8%	1	3.32	1200000
	14.3%	1	2.32	700000
	12.3%	1	3.18	1200000
	50.9%	1	2.31	700000
90	12.5%	1	3.00	900000
	9.0%	1	3.16	900000
	15.5%	1	3.16	700000
	36.8%	1	2.45	700000
	15.5%	1	2.47	900000
	14.5%	1	3.21	900000
	17.4%	1	2.50	900000
	14.0%	1	3.16	900000
	16.5%	1	2.78	900000
	15.0%	1	2.82	900000
100	15.5%	1	3.27	900000
	18.5%	1	3.16	900000
	17.3%	1	2.45	900000
	17.1%	1	2.53	900000
	19.3%	1	2.45	900000
	15.1%	1	3.16	1000000
	15.5%	1	2.62	1200000
	50.9%	1	3.18	1600000
	17.6%	1	2.65	1000000
	22.0%	1	3.33	1200000
110	16.6%	1	3.18	1100000
	50.9%	1	3.19	1100000
	14.1%	1	2.66	1100000
	19.3%	2	2.78	1100000
	16.0%	1	4.27	1100000
	18.2%	1	2.72	1200000

	16.9%	1	3.18	1100000
	50.9%	1	3.39	1100000
	21.0%	1	2.79	1200000
	20.8%	1	19.71	1200000
120	16.7%	1	8.03	2400000
	20.7%	1	3.10	1200000
	10.0%	1	3.62	1200000
	50.9%	1	3.18	1200000
	56.4%	1	3.05	1200000
	22.0%	1	3.66	1600000
	20.5%	1	3.33	1200000
	21.3%	1	3.11	1200000
	22.0%	1	4.41	1600000
	59.7%	1	3.33	2100000
130	18.4%	1	4.47	1200000
	22.0%	1	3.11	1200000
	20.2%	1	3.33	1600000
	24.7%	1	3.75	1300000
	20.2%	1	3.35	1300000
	18.5%	1	3.16	1400000
	22.1%	1	3.71	1500000
	20.2%	1	3.19	1500000
	19.7%	1	3.24	1600000
	22.0%	1	3.84	1600000
140	19.5%	1	3.33	1600000
	20.7%	1	3.30	2100000
	59.7%	1	3.86	1700000
	22.0%	1	3.45	1700000
	18.9%	1	4.47	2100000
	23.6%	2	3.36	1700000
	59.7%	1	4.05	2100000
	59.7%	1	3.41	1800000
	21.4%	1	4.47	2600000
	26.0%	1	3.54	1800000

150	23.4%	1	4.47	1900000
	19.2%	1	3.68	1900000
	26.8%	1	4.74	3900000
	13.0%	1	8.30	2000000
	33.1%	1	10.10	2100000
	59.7%	1	4.23	2100000
	26.3%	1	4.70	2200000
	26.0%	1	4.37	2200000
	27.4%	1	4.47	2600000
	26.0%	1	4.67	2200000
160	30.6%	1	4.70	2600000
	28.0%	1	5.06	2200000
	30.0%	1	4.74	2200000
	26.0%	1	4.26	2600000
	26.6%	1	4.74	2300000
	27.4%	1	4.85	2400000
	48.9%	1	4.34	3600000
	27.7%	1	16.22	2500000
	56.9%	1	4.74	2600000
	44.7%	1	5.18	2600000
170	26.0%	1	4.24	2700000
	27.6%	1	4.38	3000000
	28.6%	1	6.84	3600000
	29.6%	1	5.04	3100000
	27.4%	1	4.71	3600000
	48.9%	1	4.74	3200000
	48.9%	1	5.24	3200000
	29.8%	2	5.03	3300000
	32.0%	1	5.16	3300000
	35.9%	1	7.12	6800000
180	40.6%	2	6.84	3600000
	48.9%	1	6.26	3500000
	21.1%	1	6.84	3500000
	44.0%	2	5.42	3500000

	66.4%	1	5.66	3600000
	48.9%	2	5.50	4400000
	36.2%	1	13.99	3600000
	39.8%	2	6.10	3700000
	44.6%	1	6.84	3800000
	40.9%	1	7.20	4400000
190	36.2%	1	7.10	3900000
	42.6%	1	6.96	4400000
	36.2%	1	6.84	3800000
	68.1%	1	7.50	3900000
	55.0%	2	14.07	4099999.9999999995
	43.6%	1	7.50	4099999.9999999995
	41.4%	2	7.31	4300000
	44.6%	1	7.06	4300000
	43.8%	1	6.84	4200000
	36.2%	1	7.50	4400000
200	42.7%	1	6.84	4400000
	36.2%	1	7.58	4500000
	65.3%	1	7.05	4300000
	68.2%	1	6.87	4500000
	53.9%	2	7.84	4500000
	44.4%	2	14.46	4500000
	47.4%	2	14.81	4099999.9999999995
	46.2%	1	7.74	9000000
	72.0%	1	7.50	8700000
	72.1%	1	7.50	8700000
210	28.7%	1	7.74	4099999.9999999995
	61.7%	1	7.70	4300000
	73.1%	1	7.60	4300000
	72.1%	1	19.40	4200000
	52.8%	1	8.47	4200000
	72.1%	1	21.92	4099999.9999999995
	42.4%	1	17.56	4099999.9999999995
	39.8%	2	14.92	4200000

	51.8%	1	7.66	4000000
	44.2%	1	7.19	4099999.9999999995
220	42.7%	1	7.08	4200000
	72.1%	1	8.25	4099999.9999999995
	69.4%	1	6.22	7000000
	67.8%	1	7.02	4099999.9999999995
	72.1%	1	6.73	4099999.9999999995
	53.7%	1	16.08	4000000
	44.4%	1	7.70	3900000
	39.5%	1	6.22	7000000
	40.5%	1	7.16	3900000
	39.4%	1	6.22	7000000
230	69.4%	1	6.42	3900000
	41.2%	1	6.52	3700000
	69.4%	1	6.96	3700000
	48.1%	2	6.32	3700000
	45.7%	2	6.68	3500000
	44.5%	1	8.51	3700000
	39.4%	1	6.49	7000000
	39.1%	2	6.22	7000000
	37.4%	1	7.62	3500000
	69.4%	1	6.30	7000000
240	18.7%	1	6.22	3500000
	58.3%	1	6.22	3400000
	64.0%	1	19.74	3500000
	69.4%	1	12.86	3500000
	65.4%	1	21.57	3500000
	46.3%	1	12.52	3500000
	39.3%	1	6.49	3500000
	41.5%	1	6.47	3500000
	39.1%	1	6.49	3600000
	39.1%	1	6.30	3600000
250	38.2%	1	6.46	3600000
	37.8%	1	6.51	3600000



	39.9%	1	6.58	3500000
	41.4%	1	6.49	3600000
	42.3%	1	6.40	3600000
	39.1%	1	6.53	3500000
	41.4%	1	6.67	3500000
	39.3%	1	6.49	3500000
	36.3%	1	6.40	3500000
	41.6%	1	6.30	3500000
260	39.1%	2	6.40	3500000
	38.9%	1	6.58	3600000
	38.2%	1	6.45	3400000
	37.2%	1	6.32	3100000
	69.3%	1	5.84	3400000
	39.9%	1	6.41	3600000
	46.9%	1	6.58	3600000
	52.2%	1	21.41	3600000
	35.4%	1	6.58	7200000
	39.9%	1	13.08	3600000
270	23.4%	1	6.52	3600000
	39.9%	1	6.25	3600000
	45.8%	1	6.40	3700000
	68.1%	2	14.97	3600000
	50.9%	1	6.97	3600000
	38.9%	1	6.58	3500000
	40.3%	1	6.68	3500000
	38.4%	1	6.56	3300000
	38.3%	1	5.84	3100000
	39.9%	1	5.61	3400000
280	38.1%	1	6.48	3400000
	33.1%	1	6.49	3400000
	46.9%	1	5.84	3100000
	41.0%	2	6.06	3400000
	36.8%	1	6.46	6600000
	46.9%	1	5.84	3100000

	36.9%	1	6.22	3200000
	68.9%	1	5.79	3200000
	46.9%	1	12.38	3300000
	66.3%	1	5.92	3200000
290	47.3%	1	5.98	3200000
	26.3%	2	5.84	3200000
	34.1%	1	5.78	3200000
	37.0%	1	5.61	3200000
	38.4%	1	7.59	3100000
	29.1%	1	8.43	3100000
	48.6%	1	5.61	3300000
	38.4%	1	6.03	3300000
	46.9%	1	5.92	3100000
	46.7%	1	5.71	3300000
300	33.1%	1	5.71	6400000

#### A.1.6 MIL OBJETOS

**Tabela 35:** 1000 Objetos Pre-Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				

	0.0%	8	0.00	0
	0.0%	4	0.01	
				0
	0.0%	4	0.00	0
70	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6		
			0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
80	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	22	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.01	0
	0.1%	10	0.00	0
90	0.0%	10	0.00	0
	0.1%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.01	0
	0.0%	14	0.00	0
	0.0%	22	0.01	0

	0.0%	20	0.00	0
	0.0%	14	0.01	
				0
	0.0%	12	0.00	0
100	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.1%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.00	0
	0.0%	18	0.01	0
110	0.0%	22	0.01	0
	0.0%	34	0.00	0
	0.1%	20	0.00	0
	0.0%	14	0.00	0
	0.0%	46	0.00	0
	0.0%	18	0.01	0
	0.0%	20	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	40	0.00	0
120	0.1%	16	0.01	0
	0.0%	14	0.00	0
	0.1%	22	0.01	0
	0.1%	46	0.00	0
	0.0%	16	0.01	0
	0.0%	14	0.00	0
	0.0%	18	0.01	0
	0.0%	20	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0

130	0.0%	24	0.01	0
	0.0%	24	0.00	0
	0.0%	34	0.00	0
	0.0%	46	0.01	0
	0.1%	18	0.00	0
	0.1%	14	0.02	0
	0.0%	44	0.01	0
	0.0%	10	0.01	0
	0.0%	46	0.02	0
	0.0%	22	0.01	0
140	0.1%	44	0.02	0
	0.0%	46	0.01	0
	0.0%	30	0.02	0
	0.1%	22	0.01	0
	0.1%	26	0.01	0
	0.0%	28	0.01	0
	0.1%	24	0.03	0
	0.0%	48	0.05	0
	0.0%	60	0.02	0
	0.0%	72	0.00	0
150	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	30	0.01	0
	0.2%	18	0.03	0
	0.2%	60	0.02	0
	0.0%	70	0.02	0
	0.0%	32	0.02	0
	0.1%	44	0.01	0
	0.0%	70	0.01	0
	0.1%	40	0.01	0
160	0.1%	40	0.00	0
	0.1%	32	0.02	0
	0.1%	42	0.01	0
	0.0%	22	0.02	0

	0.0%	46	0.01	0
	0.1%	44	0.02	0
	0.0%	70	0.02	0
	0.1%	54	0.02	0
	0.0%	38	0.02	0
	0.1%	56	0.03	0
170	0.1%	70	0.03	0
	0.1%	42	0.03	0
	0.0%	70	0.02	0
	0.1%	60	0.02	0
	0.1%	56	0.03	0
	0.0%	46	0.02	0
	0.3%	58	0.11	0
	0.1%	64	0.07	0
	0.1%	118	0.03	0
	0.1%	64	0.05	0
180	0.2%	156	0.03	0
	0.1%	122	0.03	0
	0.1%	68	0.03	0
	0.1%	80	0.03	0
	0.0%	62	0.03	0
	0.1%	64	0.03	0
	0.2%	68	0.03	0
	0.3%	74	0.09	0
	0.2%	146	0.03	0
	0.1%	220	0.05	0
190	0.2%	162	0.02	0
	0.1%	76	0.03	0
	0.1%	62	0.02	0
	0.1%	220	0.03	0
	0.3%	64	0.07	0
	0.2%	64	0.03	0
	0.3%	336	0.03	0
	0.1%	62	0.03	0

	0.1%	220	0.03	0
	0.1%	78	0.37	0
200	0.1%	74	0.03	0
	0.2%	336	0.04	0
	0.2%	68	0.14	0
	0.1%	336	0.17	0
	0.2%	90	0.37	0
	0.1%	86	0.37	0
	0.2%	220	0.09	0
	0.3%	248	0.22	0
	0.2%	220	0.16	0
	0.1%	872	0.19	0
210	0.4%	164	0.21	0
	0.3%	176	0.22	0
	0.3%	336	0.37	0
	0.2%	436	0.40	0
	0.3%	872	0.37	0
	0.3%	300	0.37	0
	0.3%	830	0.38	0
	0.3%	336	0.37	0
	0.3%	872	0.42	0
	0.3%	454	0.49	0
220	0.3%	830	0.37	0
	0.3%	538	0.42	0
	0.3%	648	0.52	0
	0.2%	740	0.42	0
	0.2%	830	0.37	0
	0.3%	828	0.42	0
	0.4%	872	0.37	0
	0.3%	716	0.42	0
	0.3%	786	0.41	0
	0.2%	626	0.37	0
230	0.3%	872	0.34	0
	0.3%	830	0.20	0

	0.2%	626	0.20	0
	0.2%	956	0.31	0
	0.2%	854	0.37	0
	0.2%	522	0.32	0
	0.3%	724	0.35	0
	0.2%	522	0.32	0
	0.2%	830	0.24	0
	0.3%	704	0.36	0
240	0.2%	626	0.24	0
	0.2%	748	0.30	0
	0.2%	728	0.20	0
	0.2%	626	0.28	0
	0.2%	602	0.20	0
	0.2%	614	0.47	0
	0.2%	522	0.30	0
	0.1%	608	0.23	0
	0.2%	626	0.26	0
	0.1%	522	0.24	0
250	0.2%	620	0.24	0
	0.1%	626	0.20	0
	0.2%	576	0.16	0
	0.1%	438	0.15	0
	0.1%	522	0.22	0
	0.1%	656	0.13	0
	0.2%	522	0.16	0
	0.1%	432	0.10	0
	0.1%	358	0.04	0
	0.1%	470	0.18	0
260	0.2%	388	0.29	0
	0.1%	400	0.04	0
	0.1%	256	0.19	0
	0.1%	312	0.12	0
	0.1%	92	0.16	0
	0.1%	300	0.16	0



	0.1%	52	0.15	0
	0.1%	368	0.18	0
	0.1%	206	0.12	0
	0.1%	52	0.16	0
270	0.0%	184	0.11	0
	0.1%	164	0.09	0
	0.1%	296	0.04	0
	0.1%	300	0.09	0
	0.1%	300	0.08	0
	0.1%	252	0.07	0
	0.0%	236	0.08	0
	0.1%	244	0.04	0
	0.1%	300	0.05	0
	0.1%	240	0.05	0
280	0.1%	52	0.05	0
	0.2%	200	0.03	0
	0.1%	204	0.04	0
	0.0%	82	0.03	0
	0.1%	162	0.04	0
	0.1%	126	0.04	0
	0.0%	106	0.07	0
	0.1%	144	0.05	0
	0.1%	100	0.06	0
	0.1%	82	0.04	0
290	0.1%	70	0.10	0
	0.1%	52	0.03	0
	0.0%	92	0.03	0
	0.1%	52	0.04	0
	0.0%	82	0.08	0
	0.1%	52	0.06	0
	0.0%	24	0.04	0
	0.1%	34	0.04	0
	0.1%	72	0.03	0
	0.0%	104	0.04	0

300	0.1%	168	0.02	0
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**Tabela 36:** 1000 Objetos Pre-Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70	0.4%	2		0
			0.00	
	0.0%	2		0
	0.0%			
	0.0%			
			0.00	
		4	0.00	0
		114	0.00	0
	0.0%	4	0.00	0
80	0.0%	4	0.00	0
	0.0%	6		0
	0.0%		0.00	
	0.0%	12		0
		2	0.00	0
	0.0%			
		2	0.00	

			0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
90	0.0%	32	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	32	0.00	0
	0.0%	32	0.00	0
	0.0%	2	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.06	0
100	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	18	0.00	0
	0.0%	14	0.06	0
	0.0%	22	0.01	0
	0.0%	12	0.00	0
110	0.0%	22	0.00	0
	0.1%	8	0.01	0
	0.1%	114	0.00	0
	0.0%	10	0.02	0
	0.0%	18	0.01	0
	0.1%	18	0.01	0
	0.0%	14	0.00	0
	0.0%	10	0.03	0
	0.0%	14	0.00	0
	0.0%	30	0.00	0
120	0.0%	10	0.06	0

	0.0%	46	0.06	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.3%	114	0.00	0
	0.0%	12	0.01	0
	0.1%	114	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.01	0
130	0.0%	18	0.01	0
	0.0%	12	0.01	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	32	0.01	0
	0.0%	14	0.11	0
	0.0%	8	0.00	0
	0.0%	40	0.00	0
	0.0%	32	0.00	0
	0.0%	12	0.01	0
140	0.0%	32	0.11	0
	0.0%	18	0.00	0
	0.0%	12	0.01	0
	0.3%	30	0.25	0
	0.1%	18	0.01	0
	0.0%	32	0.03	0
	0.1%	16	0.01	0
	0.0%	18	0.01	0
	0.1%	18	0.01	0
	0.1%	18	0.01	0
150	0.3%	14	0.01	0
	0.0%	50	0.01	0
	0.0%	340	0.25	0
	0.0%	46	0.06	0
	0.0%	24	0.01	0

	0.1%	28	0.06	0
	0.0%	28	0.02	0
	0.1%	22	0.03	0
	0.0%	28	0.01	0
	0.1%	18	0.01	0
160	0.0%	340	0.03	0
	0.1%	28	0.02	0
	0.3%	114	0.04	0
	0.0%	114	0.02	0
	0.1%	22	0.01	0
	0.3%	46	0.02	0
	0.1%	46	0.06	0
	0.1%	42	0.03	0
	0.2%	38	0.02	0
	0.0%	28	0.09	0
170	0.1%	72	0.25	0
	0.2%	46	0.41	0
	0.1%	42	0.06	0
	0.2%	114	0.04	0
	0.1%	340	0.06	0
	0.3%	926	0.03	0
	0.3%	46	0.03	0
	0.1%	114	0.03	0
	0.3%	46	0.02	0
	0.1%	90	0.25	0
180	0.1%	46	0.02	0
	0.1%	106	0.41	0
	0.2%	62	0.02	0
	0.1%	340	0.05	0
	0.3%	926	0.25	0
	0.1%	38	0.03	0
	0.3%	42	0.03	0
	0.3%	340	0.01	0
	0.2%	56	0.02	0

	0.1%	46	0.02	0
190	0.3%	104	0.03	0
	0.3%	50	0.25	0
	0.2%	68	0.02	0
	0.2%	46	0.03	0
	0.2%	150	0.25	0
	0.3%	340	0.41	0
	0.2%	34	0.15	0
	0.1%	926	0.13	0
	0.2%	40	0.10	0
	0.3%	340	0.25	0
200	0.2%	604	0.25	0
	0.3%	64	0.08	0
	0.2%	198	0.41	0
	0.3%	926	0.07	0
	0.3%	340	0.15	0
	0.3%	252	0.17	0
	0.3%	604	0.25	0
	0.2%	356	0.16	0
	0.3%	926	0.41	0
	0.2%	340	0.16	0
210	0.2%	388	0.21	0
	0.2%	522	0.25	0
	0.3%	684	0.35	0
	0.1%	926	0.38	0
	0.3%	596	0.41	0
	0.3%	550	0.27	0
	0.3%	926	0.43	0
	0.2%	926	0.41	0
	0.1%	676	0.41	0
	0.3%	938	0.49	0
220	0.4%	604	0.44	0
	0.2%	604	0.45	0
	0.3%	838	0.25	0

	0.2%	852	0.42	0
	0.3%	926	0.25	0
	0.2%	318	0.41	0
	0.2%	858	0.37	0
	0.3%	604	0.12	0
	0.2%	780	0.25	0
	0.3%	318	0.12	0
230	0.3%	604	0.37	0
	0.1%	596	0.25	0
	0.2%	604	0.33	0
	0.3%	624	0.25	0
	0.3%	604	0.31	0
	0.1%	640	0.32	0
	0.2%	688	0.41	0
	0.1%	526	0.25	0
	0.2%	466	0.38	0
	0.1%	318	0.29	0
240	0.1%	604	0.24	0
	0.1%	478	0.34	0
	0.1%	444	0.45	0
	0.2%	318	0.37	0
	0.1%	318	0.25	0
	0.2%	480	0.12	0
	0.1%	318	0.26	0
	0.1%	318	0.23	0
	0.3%	454	0.12	0
	0.1%	104	0.22	0
250	0.2%	274	0.12	0
	0.1%	104	0.12	0
	0.1%	308	0.16	0
	0.1%	318	0.14	0
	0.1%	268	0.12	0
	0.2%	318	0.18	0
	0.1%	230	0.04	0

	0.1%	104	0.04	0
	0.1%	104	0.12	0
	0.1%	202	0.12	0
260	0.1%	240	0.14	0
	0.1%	104	0.22	0
	0.1%	316	0.13	0
	0.1%	286	0.12	0
	0.0%	104	0.20	0
	0.1%	118	0.04	0
	0.1%	104	0.04	0
	0.0%	180	0.14	0
	0.1%	104	0.29	0
	0.0%	180	0.04	0
270	0.1%	104	0.17	0
	0.0%	118	0.10	0
	0.1%	118	0.12	0
	0.0%	102	0.08	0
	0.0%	98	0.04	0
	0.1%	102	0.04	0
	0.0%	118	0.05	0
	0.0%	58	0.04	0
	0.1%	104	0.10	0
	0.1%	118	0.04	0
280	0.0%	102	0.04	0
	0.0%	114	0.04	0
	0.0%	64	0.03	0
	0.1%	102	0.03	0
	0.0%	68	0.04	0
	0.1%	102	0.10	0
	0.0%	66	0.10	0
	0.0%	136	0.03	0
	0.0%	118	0.03	0
	0.0%	118	0.03	0
290	0.0%	126	0.05	0



	0.1%	118	0.02	0
	0.0%	118	0.04	0
	0.0%	102	0.07	0
	0.0%	102	0.03	0
	0.0%	102	0.03	0
	0.0%	46	0.11	0
	0.0%	102	0.03	0
	0.1%	140	0.04	0
	0.0%	132	0.07	0
300	0.0%	128	0.03	0

**Tabela 37:** 1000 Objetos Pre-Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.7%	800	0.58	0
	0.6%	1502	2.20	0
	2.8%	1502	0.89	0
	0.6%	200	2.20	0
	0.9%	200	1.46	0
	0.6%	200	0.20	0
	0.5%	200	1.46	0
	4.1%	200	0.10	0
10	4.1%	200	0.09	0
	4.1%	200	0.09	0
	0.5%	200	2.20	0
	0.7%	3004	0.10	0
	0.6%	200	0.12	0
	4.1%	3004	0.10	0
	2.8%	200	0.11	0
	2.8%	200	0.09	0
	0.5%	200	0.09	0
	0.5%	200	0.09	0

20	0.6%	200	0.09	0
	0.6%	200	2.20	0
	0.6%	200	2.20	0
	0.6%	200	0.10	0
	4.1%	200	0.10	0
	0.6%	200	0.08	0
	4.1%	200	0.10	0
	0.6%	200	0.10	0
	0.6%	200	0.10	0
	0.3%	200	0.08	0
30	0.6%	200	0.09	0
	0.8%	400	0.09	0
	0.6%	200	0.08	0
	0.5%	200	0.08	0
	0.5%	200	0.10	0
	0.6%	200	0.09	0
	0.6%	200	0.09	0
	0.6%	200	0.10	0
	0.5%	200	0.10	0
	0.6%	200	0.09	0
40	0.4%	200	0.09	0
	0.6%	200	0.08	0
	0.5%	200	0.09	0
	0.6%	200	0.08	0
	0.5%	200	0.09	0
	0.5%	200	0.08	0
	0.6%	200	0.11	0
	0.5%	200	0.10	0
	0.6%	200	0.10	0
	0.5%	200	0.08	0
50	0.6%	200	0.11	0
	0.5%	200	0.11	0
	0.5%	212	0.08	0
	0.4%	200	0.09	0

	0.6%	200	0.08	0
	0.5%	200	0.11	0
	0.6%	212	0.08	0
	0.7%	200	0.21	0
	0.5%	212	1.46	0
	0.5%	200	0.08	0
60	0.6%	212	0.11	0
	0.6%	200	0.09	0
	0.5%	200	0.10	0
	4.9%	200	0.09	0
	0.8%	1502	0.10	0
	1.0%	212	0.11	0
	0.8%	200	0.09	0
	0.5%	200	0.09	0
	0.5%	212	0.08	0
	0.6%	208	0.11	0
70	0.5%	212	0.09	0
	4.9%	3030	0.10	0
	0.5%	212	0.09	0
	4.9%	3030	0.11	0
	0.7%	212	0.09	0
	4.9%	212	0.10	0
	0.6%	214	0.15	0
	0.8%	222	0.10	0
	0.5%	228	0.09	0
	4.9%	342	0.13	0
80	0.7%	226	0.11	0
	0.5%	3030	0.15	0
	4.9%	226	0.12	0
	0.6%	226	0.14	0
	0.5%	3030	0.12	0
	0.6%	3030	0.16	0
	0.8%	3030	0.84	0
	0.5%	236	0.12	0

	0.8%	342	0.15	0
	0.8%	248	0.15	0
90	0.9%	320	0.14	0
	0.4%	254	0.12	0
	2.9%	3030	0.13	0
	0.8%	342	0.15	0
	1.0%	342	0.16	0
	0.8%	274	0.16	0
	0.6%	320	0.14	0
	0.8%	278	0.19	0
	0.8%	342	0.15	0
	0.9%	280	0.15	0
100	0.8%	342	0.16	0
	0.8%	320	0.14	0
	0.9%	342	0.15	0
	1.0%	320	0.15	0
	1.0%	330	0.14	0
	0.9%	342	0.16	0
	0.9%	320	0.16	0
	0.9%	338	0.19	0
	1.0%	342	0.18	0
	1.2%	320	0.19	0
110	1.3%	334	0.15	0
	1.0%	330	0.16	0
	1.3%	320	0.15	0
	1.1%	320	0.19	0
	2.9%	326	0.20	0
	1.2%	342	0.16	0
	1.4%	352	0.16	0
	1.7%	362	0.16	0
	1.2%	372	0.19	0
	1.7%	382	0.20	0
120	1.3%	396	0.19	0
	1.7%	408	0.20	0

	1.7%	492	0.20	0
	1.2%	848	0.19	0
	1.2%	424	0.20	0
	1.2%	492	0.19	0
	2.6%	492	0.22	0
	1.1%	492	0.19	0
	2.6%	430	0.19	0
	2.6%	444	0.22	0
130	2.6%	450	0.90	0
	1.3%	492	0.22	0
	1.7%	450	0.22	0
	1.7%	492	0.19	0
	1.4%	488	0.20	0
	1.1%	486	0.20	0
	2.6%	492	0.20	0
	1.7%	474	0.20	0
	2.2%	484	0.22	0
	2.6%	492	0.20	0
140	2.1%	992	0.22	0
	1.7%	512	0.24	0
	1.7%	526	0.24	0
	1.3%	516	0.22	0
	1.7%	542	0.20	0
	2.6%	552	0.24	0
	1.4%	1154	0.22	0
	2.6%	606	0.24	0
	2.8%	598	0.20	0
	2.2%	1194	0.20	0
150	2.1%	668	0.21	0
	1.6%	1194	0.22	0
	2.5%	1352	0.30	0
	1.7%	696	0.30	0
	1.7%	734	0.30	0
	1.8%	750	0.22	0

	1.8%	1194	0.24	0
	2.2%	1194	0.30	0
	1.8%	760	0.22	0
	4.4%	1352	0.23	0
160	2.3%	784	0.24	0
	3.9%	1604	0.31	0
	2.5%	822	0.46	0
	2.8%	1194	0.31	0
	4.4%	850	0.33	0
	2.5%	1352	0.30	0
	3.3%	874	0.30	0
	1.4%	1194	0.31	0
	4.4%	888	0.23	0
	4.3%	1352	0.31	0
170	3.2%	882	0.24	0
	4.4%	1842	0.25	0
	3.4%	1906	0.30	0
	2.6%	1352	0.24	0
	3.0%	1352	0.43	0
	4.4%	1980	0.24	0
	4.4%	980	0.31	0
	1.6%	986	0.43	0
	4.2%	1028	0.88	0
	4.0%	1048	0.65	0
180	4.0%	1090	0.31	0
	3.2%	1194	0.28	0
	3.5%	2192	0.30	0
	4.2%	1186	0.29	0
	3.9%	1194	0.43	0
	4.4%	10166	0.30	0
	4.0%	1242	0.43	0
	5.3%	1352	0.28	0
	4.0%	2496	0.43	0
	4.4%	1252	0.31	0

190	2.7%	1320	0.34	0
	5.2%	1352	0.34	0
	5.2%	1352	0.43	0
	3.4%	4206	0.31	0
	4.5%	5840	0.31	0
	4.7%	10166	0.34	0
	3.7%	4556	0.31	0
	4.0%	3064	0.35	0
	5.7%	6474	2.48	0
	4.0%	10166	0.38	0
200	5.8%	3096	0.43	0
	4.0%	4904	0.39	0
	4.1%	7034	0.43	0
	5.1%	7394	0.51	0
	5.2%	10166	2.48	0
	4.0%	12268	0.45	0
	3.4%	13784	6.53	0
	5.1%	6474	1.51	0
	3.4%	10166	2.48	0
	4.2%	14158	1.20	0
210	6.0%	6474	2.48	0
	4.0%	3006	0.44	0
	5.7%	13832	0.45	0
	4.0%	14116	6.53	0
	5.0%	14216	0.51	0
	5.4%	10166	0.58	0
	6.3%	12560	2.48	0
	2.9%	11714	0.55	0
	5.0%	11484	6.53	0
	4.0%	11956	2.48	0
220	3.4%	6474	1.05	0
	5.1%	11978	1.15	0
	3.4%	11706	0.57	0
	4.8%	6474	0.60	0

	4.9%	3006	6.53	0
	5.1%	3006	0.60	0
	4.7%	11996	0.61	0
	5.8%	4554	4.07	0
	4.0%	11916	0.67	0
	4.9%	11490	6.53	0
230	4.0%	11336	0.63	0
	5.5%	10166	5.57	0
	4.0%	11200	0.67	0
	5.5%	3138	6.53	0
	6.0%	10528	0.72	0
	2.9%	10412	2.95	0
	5.8%	6474	2.48	0
	2.9%	8598	3.11	0
	4.6%	10282	1.47	0
	3.4%	10354	4.07	0
240	5.9%	10166	1.53	0
	4.0%	3006	2.93	0
	2.8%	8354	4.07	0
	2.8%	3006	2.48	0
	6.6%	4554	3.22	0
	2.8%	6634	3.48	0
	5.7%	4554	5.57	0
	3.0%	6484	4.54	0
	6.6%	8216	5.57	0
	4.1%	10002	5.46	0
250	5.8%	3004	6.53	0
	4.1%	4626	5.49	0
	4.2%	3004	5.85	0
	4.9%	3004	5.17	0
	4.1%	9372	7.08	0
	4.7%	9450	4.07	0
	6.3%	9722	6.83	0
	4.6%	1502	6.76	0



	5.3%	1502	4.07	0
	3.6%	1502	6.75	0
260	4.0%	9440	6.53	0
	0.7%	3004	5.57	0
	5.4%	9406	6.65	0
	3.4%	9308	6.58	0
	6.1%	7940	5.57	0
	5.9%	8066	6.29	0
	5.4%	6518	5.53	0
	5.3%	6474	4.07	0
	4.0%	4774	5.91	0
	2.9%	6334	5.90	0
270	2.9%	4716	5.57	0
	5.2%	3156	3.09	0
	5.0%	4728	5.86	0
	5.4%	4640	6.23	0
	5.6%	3074	5.49	0
	3.4%	3006	4.73	0
	5.5%	3094	5.65	0
	5.1%	1544	4.07	0
	5.1%	3078	6.29	0
	5.1%	4554	4.51	0
280	3.0%	4554	5.57	0
	4.0%	5964	4.97	0
	2.8%	4452	4.02	0
	2.8%	4490	3.30	0
	5.4%	3006	4.92	0
	4.9%	6092	2.20	0
	2.8%	4638	4.42	0
	4.6%	3138	4.02	0
	5.7%	3138	3.09	0
	5.1%	3140	2.98	0
290	4.7%	4664	6.68	0
	1.9%	4534	4.71	0

	4.9%	1502	1.46	0
	4.8%	2952	1.46	0
	3.4%	4454	5.12	0
	5.0%	3004	1.46	0
	5.1%	2958	4.50	0
	3.7%	3004	2.20	0
	0.7%	2992	2.20	0
		2998	5.35	0
300		3004	4.07	0

**Tabela 38:** 1000 Objetos Pre-Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.7%	4	0.11	

40				
				0
	0.0%		0.00	0
	0.0%			
50				
		8		
			0.00	0
	0.0%		0.00	
		8		
60		8		0
	0.0%	4	0.00	0
	0.0%		0.00	0
		8		
	0.0%		0.00	0
			0.00	
70				

		2		
	0.0%	2		0
	0.0%		0.00	0
80				
		4		
	0.0%	2	0.01	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	
	0.0%	4	0.00	
90				
				0
				0
	0.0%	2	0.00	0
	0.0%		0.00	
	0.0%	4	0.00	0
	0.0%	2		0
100		4	0.00	
	0.0%			0
		4	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
			0.00	
		2		

	0.0%	2		0
	0.0%		0.00	0
			0.00	
110				
		2		
	0.0%			0
			0.00	0
120				
		2		
	0.0%			
				0
		2		
	0.0%		0.00	
130				0
140				

		4		
	0.0%		0.01	
	0.0%			0
		2		
		2	0.00	
150	0.0%		0.00	0
		2		
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			0
		2	0.01	
	0.0%	2	0.00	
160	0.0%			
				0
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%		0.00	
170		2		0
	0.0%	2	0.00	
				0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

			0.01	
	0.0%	4		0
			0.00	
		2		0
			0.00	
180				
	0.0%			
		2		
	0.0%			0
190		2	0.00	
	0.0%			0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
200				
	0.0%	4	0.00	0
				0
	0.0%	2	0.00	0
		4	0.00	0
		2		
	0.0%			
	0.0%		0.01	0

		2		
210				
	0.0%		0.01	0
		2		0
	0.0%		0.00	
	0.0%	2	0.01	0
	0.0%	6		0
			0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
220	0.0%	2		0
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	0
	0.0%	2		0
	0.0%		0.00	
			0.00	0
		2		
	0.0%	2		
230	0.0%	2		0
				0
			0.01	
			0.00	
			0.00	
	0.0%	4		
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%			0
		2		0
240	0.0%	2		0
	0.0%			
				0



				0
250				
300				

**Tabela 39:** 1000 Objetos Pre-Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.9%	4	0.09	0
60				
	0.0%	8	0.00	0
	0.0%			
70				
		8	0.00	0
	0.0%			
80				
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.00	0
	0.0%	4	0.00	0
90				

	0.0%	2	0.00	0
100				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
110	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
120				

	0.0%	2	0.00	0
	0.0%			
130				
140				
150		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2		

160			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
180				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
190	0.0%	2	0.00	0

	0.0%	4	0.00	0
200				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
210	0.0%			
		2	0.00	0
	0.0%	4		
			0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.01	0
	0.0%	2	0.01	0
	0.0%	6	0.01	0
	0.0%	8	0.01	0
220	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
230				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
240				
280				
		2	0.00	0
	0.0%			
290				
300				

**Tabela 40:** 1000 Objetos Pre-Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
30				
	0.5%	4	0.08	0
	0.0%	4	0.00	0
	0.0%	4	0.02	0
40	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
50	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0



	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.1%	12	0.01	0
	0.1%	12	0.03	0
	0.0%	12	0.03	0
60	0.0%	20	0.03	0
	0.1%	20	0.03	0
	0.1%	40	0.00	0
	0.1%	16	0.01	0
	0.1%	16	0.01	0
	0.0%	24	0.01	0
	0.1%	28	0.03	0
	0.0%	28	0.01	0
	0.1%	20	0.01	0
	0.1%	20	0.01	0
70	0.1%	20	0.01	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
80	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	22	0.01	0
	0.2%	24	0.00	0
	0.0%	24	0.01	0
	0.1%	22	0.03	0
	0.0%	20	0.01	0
	0.1%	24	0.04	0
	0.1%	26	0.01	0

	0.1%	60	0.02	0
90	0.1%	30	0.02	0
	0.1%	34	0.02	0
	0.1%	34	0.02	0
	0.1%	34	0.02	0
	0.1%	34	0.02	0
	0.1%	40	0.02	0
	0.1%	34	0.01	0
	0.1%	34	0.02	0
	0.1%	32	0.01	0
	0.1%	34	0.02	0
100	0.1%	36	0.02	0
	0.1%	36	0.02	0
	0.0%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.01	0
	0.1%	36	0.03	0
	0.1%	36	0.02	0
	0.1%	40	0.02	0
	0.4%	40	0.02	0
	0.2%	40	0.08	0
110	0.1%	44	0.09	0
	0.2%	42	0.03	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.0%	42	0.02	0
	0.3%	42	0.02	0
	0.2%	40	0.02	0
	0.1%	44	0.09	0
120	0.1%	46	0.03	0
	0.1%	88	0.02	0
	0.1%	42	0.02	0

	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
130	0.1%	40	0.02	0
	0.1%	42	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.2%	88	0.02	0
	0.0%	42	0.04	0
	0.3%	42	0.02	0
	0.2%	42	0.06	0
	0.1%	42	0.03	0
140	0.1%	88	0.02	0
	0.1%	84	0.03	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	42	0.02	0
	0.0%	42	0.02	0
	0.2%	42	0.02	0
	0.3%	42	0.02	0
	0.3%	42	0.10	0
	0.2%	42	0.08	0
150	0.2%	88	0.02	0
	0.1%	92	0.03	0
	0.1%	52	0.03	0
	0.2%	46	0.02	0
	0.3%	46	0.04	0
	0.2%	46	0.05	0
	0.1%	52	0.03	0

	0.1%	46	0.02	0
	0.1%	46	0.03	0
	0.1%	48	0.02	0
160	0.2%	48	0.02	0
	0.1%	50	0.02	0
	0.1%	48	0.02	0
	0.2%	50	0.02	0
	0.2%	50	0.03	0
	0.2%	50	0.03	0
	0.1%	52	0.03	0
	0.1%	50	0.02	0
	0.2%	48	0.02	0
	0.2%	104	0.02	0
170	0.1%	46	0.07	0
	0.2%	104	0.02	0
	0.1%	46	0.02	0
	0.1%	48	0.04	0
	0.0%	48	0.02	0
	0.1%	50	0.03	0
	0.2%	50	0.02	0
	0.2%	50	0.06	0
	0.2%	52	0.06	0
	0.7%	100	0.06	0
180	0.1%	102	0.06	0
	0.7%	100	0.03	0
	0.1%	104	0.02	0
	0.1%	54	0.02	0
	0.1%	54	0.02	0
	0.1%	52	0.04	0
	0.2%	56	0.03	0
	0.2%	52	0.04	0
	0.2%	56	0.07	0
	0.1%	56	0.07	0
190	0.2%	56	0.06	0

	0.2%	112	0.03	0
	0.7%	108	0.03	0
	0.2%	54	0.03	0
	0.1%	54	0.07	0
	0.1%	54	0.13	0
	0.1%	56	0.02	0
	0.2%	110	0.03	0
	0.1%	52	0.04	0
	0.1%	52	0.02	0
200	0.0%	330	0.26	0
	0.2%	52	0.03	0
	0.2%	52	0.10	0
	0.2%	52	0.14	0
	0.1%	330	0.26	0
	0.2%	170	0.06	0
	0.2%	168	0.08	0
	0.1%	112	0.12	0
	0.1%	112	0.12	0
	0.1%	232	0.11	0
210	0.1%	180	0.14	0
	0.1%	184	0.14	0
	0.2%	254	0.18	0
	0.2%	264	0.27	0
	0.2%	330	0.26	0
	0.1%	360	0.23	0
	0.1%	390	0.24	0
	0.1%	390	0.22	0
	0.1%	396	0.24	0
	0.2%	328	0.24	0
220	0.1%	394	0.27	0
	0.1%	360	0.23	0
	0.2%	396	0.23	0
	0.1%	396	0.24	0
	0.2%	414	0.32	0

	0.2%	424	0.23	0
	0.1%	402	0.31	0
	0.2%	406	0.21	0
	0.2%	394	0.28	0
	0.2%	374	0.24	0
230	0.2%	384	0.23	0
	0.1%	360	0.23	0
	0.2%	364	0.25	0
	0.2%	372	0.25	0
	0.2%	380	0.21	0
	0.1%	372	0.21	0
	0.2%	362	0.20	0
	0.2%	354	0.26	0
	0.2%	384	0.23	0
	0.2%	360	0.24	0
240	0.3%	360	0.20	0
	0.2%	348	0.24	0
	0.2%	290	0.29	0
	0.2%	352	0.34	0
	0.2%	362	0.23	0
	0.2%	198	0.33	0
	0.2%	374	0.23	0
	0.3%	384	0.23	0
	0.3%	394	0.23	0
	0.3%	334	0.34	0
250	0.3%	396	0.25	0
	0.2%	396	0.21	0
	0.3%	396	0.19	0
	0.2%	330	0.28	0
	0.3%	264	0.29	0
	0.1%	264	0.28	0
	0.2%	198	0.33	0
	0.1%	330	0.18	0
	0.3%	396	0.14	0

	0.3%	330	0.26	0
260	0.1%	264	0.18	0
	0.3%	198	0.06	0
	0.3%	330	0.10	0
	0.2%	264	0.33	0
	0.2%	198	0.25	0
	0.2%	396	0.24	0
	0.3%	396	0.28	0
	0.1%	396	0.38	0
	0.2%	396	0.26	0
	0.2%	396	0.21	0
270	0.1%	396	0.20	0
	0.3%	396	0.16	0
	0.2%	330	0.06	0
	0.2%	198	0.17	0
	0.1%	330	0.12	0
	0.2%	264	0.07	0
	0.2%	196	0.16	0
	0.1%	264	0.12	0
	0.3%	198	0.09	0
	0.3%	264	0.06	0
280	0.2%	198	0.12	0
	0.2%	132	0.12	0
	0.1%	198	0.06	0
	0.1%	198	0.08	0
	0.1%	132	0.03	0
	0.2%	132	0.06	0
	0.2%	66	0.14	0
	0.2%	132	0.14	0
	0.2%	198	0.10	0
	0.2%	264	0.11	0
290	0.1%	196	0.07	0
	0.3%	64	0.08	0
	0.3%	198	0.07	0

	0.2%	198	0.18	0
	0.2%	132	0.12	0
	0.1%	264	0.08	0
	0.2%	196	0.07	0
	0.2%	128	0.08	0
	0.2%	128	0.14	0
	0.2%	128	0.11	0
300	0.2%	192	0.10	0

**Tabela 41:** 1000 Objetos Pre-Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	25.7%	6	18.93	1400000
	57.6%	2	89.39	37000000
	31.4%	1	19.94	700000
	17.6%	1	46.36	700000
	81.5%	1	9.27	700000
	81.5%	1	89.39	37000000
	18.7%	1	3.41	700000
	24.6%	1	46.36	700000
10	19.6%	1	2.97	37000000
	75.9%	1	89.39	37000000
	75.9%	1	46.36	700000
	19.6%	1	3.54	37000000
	21.4%	1	89.39	37000000
	22.2%	1	3.19	700000
	22.2%	1	4.49	37000000
	19.6%	1	89.39	700000
	25.6%	1	4.31	700000
	19.6%	1	89.39	37000000
20	19.6%	1	3.68	700000
	25.9%	1	3.08	37000000



	20.9%	1	46.36	700000
	18.0%	1	46.36	700000
	21.0%	1	4.54	700000
	26.0%	1	3.19	700000
	19.6%	1	4.31	700000
	10.0%	1	4.31	700000
	19.6%	1	89.39	700000
	19.6%	1	89.39	700000
30	44.3%	1	3.12	700000
	21.0%	1	4.31	700000
	21.0%	1	3.35	700000
	21.0%	1	3.09	700000
	20.0%	1	3.15	700000
	19.6%	1	3.48	700000
	19.6%	1	4.31	900000
	19.6%	1	4.31	700000
	19.6%	1	4.44	700000
	17.2%	1	4.31	1400000
40	24.1%	1	3.15	900000
	22.6%	1	3.07	700000
	21.0%	1	3.15	900000
	20.4%	1	3.15	700000
	21.0%	1	3.21	900000
	60.9%	1	4.46	700000
	60.9%	1	4.31	900000
	25.8%	1	4.31	700000
	60.9%	1	4.31	900000
	60.9%	1	3.61	900000
50	21.0%	1	4.52	700000
	19.6%	1	3.15	700000
	21.0%	1	3.13	700000
	24.8%	1	4.92	900000
	21.0%	1	3.15	800000
	21.9%	1	4.92	800000

	18.6%	1	4.57	800000
	22.0%	1	4.92	800000
	21.0%	1	3.15	800000
	22.0%	2	4.92	1700000
60	22.0%	1	3.16	900000
	60.9%	1	3.15	1700000
	22.0%	1	3.15	900000
	60.9%	1	4.82	900000
	60.9%	1	3.12	900000
	16.0%	1	3.78	1700000
	38.6%	1	4.45	1000000
	60.9%	1	3.78	1700000
	29.2%	1	3.15	1000000
	19.2%	1	4.92	1700000
70	22.0%	1	3.15	1700000
	22.0%	1	3.78	1000000
	24.9%	1	3.78	1700000
	20.5%	1	4.92	1700000
	20.7%	1	3.26	1000000
	60.9%	1	4.92	1700000
	22.0%	1	4.92	1700000
	22.0%	1	4.51	1100000
	25.1%	1	3.29	1700000
	60.9%	1	3.78	1200000
80	34.7%	1	3.78	1700000
	27.9%	1	3.45	2500000
	22.0%	1	6.20	1200000
	25.7%	1	3.78	1300000
	22.0%	1	3.78	2500000
	28.9%	1	4.92	1200000
	25.5%	1	3.53	1700000
	23.5%	1	4.92	1700000
	28.6%	1	3.82	1700000
	25.7%	1	5.33	1200000

90	23.4%	1	3.53	1700000
	25.7%	1	5.31	1200000
	24.8%	1	4.45	1200000
	24.6%	1	3.60	2500000
	25.7%	1	5.33	1300000
	25.7%	2	3.78	3300000
	25.7%	1	3.78	2500000
	24.8%	1	5.33	1300000
	29.0%	1	5.24	3300000
	25.7%	1	3.68	1400000
100	24.8%	1	5.33	2500000
	28.3%	1	5.27	1500000
	22.7%	1	5.33	1500000
	54.5%	1	5.33	3300000
	25.7%	1	4.01	1500000
	33.1%	1	5.33	1700000
	24.8%	1	5.40	2500000
	23.3%	1	5.39	3300000
	24.8%	1	5.33	1600000
	16.5%	1	3.62	1700000
110	51.4%	1	5.01	1600000
	24.8%	1	5.33	3300000
	24.0%	1	5.54	2500000
	29.8%	1	4.17	1700000
	29.4%	1	5.33	1700000
	27.6%	1	4.25	24500000
	24.8%	1	5.33	1700000
	24.8%	1	4.17	24500000
	29.4%	1	3.96	2500000
	31.1%	1	5.30	1800000
120	25.7%	1	4.15	1800000
	29.3%	2	4.13	3300000
	29.4%	1	5.33	1800000
	29.4%	1	4.17	1800000

	25.7%	2	31.31	24500000
	23.6%	1	31.31	3300000
	29.4%	1	4.31	1800000
	24.2%	1	5.54	53500000
	31.9%	1	7.44	2000000
	24.8%	1	7.44	2000000
130	29.4%	1	6.24	53500000
	31.7%	1	4.88	24500000
	31.0%	1	4.97	31300000
	29.5%	1	31.31	24500000
	30.3%	1	4.58	3300000
	87.6%	1	7.44	2000000
	87.6%	2	31.31	2500000
	24.8%	1	4.48	31300000
	29.4%	1	4.75	4500000
	18.9%	1	31.31	53500000
140	53.4%	2	6.19	2200000
	41.1%	1	7.44	2400000
	34.4%	1	7.44	2400000
	29.4%	1	4.64	31300000
	87.6%	2	18.48	2400000
	31.9%	1	11.85	2500000
	34.4%	1	6.57	2500000
	27.6%	1	31.31	2500000
	87.6%	1	4.96	3300000
	34.8%	1	31.31	2600000
150	90.4%	1	5.06	24500000
	87.6%	1	7.44	53500000
	90.4%	1	18.91	53500000
	29.7%	1	16.07	2600000
	29.4%	2	7.44	24500000
	32.7%	1	31.31	2700000
	29.4%	1	8.26	2800000
	55.6%	1	6.64	31300000

	90.4%	1	7.94	31300000
	57.6%	2	7.44	2900000
160	46.8%	6	7.61	7200000
	40.9%	1	31.31	2900000
	87.6%	1	18.81	3000000
	90.7%	1	24.06	3300000
	35.7%	6	8.12	3300000
	87.6%	1	8.66	3400000
	29.4%	2	7.52	7200000
	90.4%	1	7.44	24500000
	90.7%	1	18.81	7000000
	90.4%	1	8.69	7200000
170	56.9%	1	19.91	7500000
	69.4%	2	18.81	45800000
	47.0%	6	16.32	45800000
	39.3%	1	9.77	7700000
	39.1%	1	8.31	4700000
	90.7%	1	21.11	3900000
	36.6%	2	10.10	3900000
	49.6%	1	25.05	45800000
	87.6%	1	19.51	4000000
	42.0%	1	19.83	4099999.9999999995
180	92.6%	6	10.02	4200000
	41.0%	6	11.45	4600000
	90.4%	6	21.11	8500000
	45.3%	1	10.52	4600000
	40.5%	6	21.11	8800000
	90.7%	1	47.35	4600000
	90.7%	6	10.44	4700000
	90.4%	2	47.35	11100000
	92.6%	1	47.35	11100000
	63.0%	1	31.31	11100000
190	74.2%	1	34.20	4700000
	87.6%	6	23.83	9700000

	45.3%	1	47.64	4800000
	92.6%	6	39.72	4800000
	48.6%	1	53.84	5000000
	45.3%	6	115.87	53500000
	27.0%	2	85.03	53500000
	58.6%	1	99.51	5200000
	57.0%	1	92.16	16100000.000000002
	73.0%	1	101.45	22300000
200	48.6%	1	119.74	17200000
	48.6%	2	115.18	31300000
	57.2%	1	118.29	31300000
	48.6%	6	101.23	24500000
	50.1%	1	115.21	19100000
	72.6%	6	97.90	19600000
	57.0%	2	120.98	28600000
	72.5%	1	115.87	51300000
	58.3%	1	115.87	36300000
	57.0%	6	101.74	42900000
210	75.5%	1	115.32	48000000
	75.5%	6	84.43	53500000
	75.5%	2	104.89	52900000
	86.4%	2	47.35	54500000
	74.2%	2	81.26	54400000
	61.4%	1	109.55	54900000
	60.1%	1	82.47	31300000
	60.2%	6	83.06	54100000
	90.4%	6	104.73	43200000
	73.8%	1	93.64	55300000
220	87.6%	1	47.35	53500000
	90.7%	6	78.49	51300000
	90.7%	2	47.35	51300000
	72.2%	6	83.79	49000000
	86.4%	6	78.97	46000000
	83.3%	6	39.81	45800000

	86.4%	1	102.85	45800000
	83.9%	1	74.14	45000000
	90.0%	1	59.90	45200000
	87.4%	1	63.05	39000000
230	90.4%	1	46.36	45700000
	69.0%	1	87.50	11100000
	73.8%	2	73.45	45800000
	89.5%	1	22.16	45900000
	90.9%	6	89.39	45800000
	74.4%	6	58.67	44400000
	78.3%	1	67.89	43800000
	89.6%	1	46.36	43200000
	92.2%	1	62.57	43200000
	90.7%	3	46.36	42800000
240	81.7%	4	47.38	11100000
	90.0%	3	91.63	11100000
	90.0%	2	46.36	39200000
	89.3%	2	89.39	32400000
	76.0%	4	79.70	39000000
	92.6%	6	94.03	39000000
	82.1%	3	80.40	38600000
	92.6%	6	78.98	38300000
	91.1%	4	55.87	10800000
	75.5%	6	46.36	31300000
250	76.8%	4	22.10	24900000
	82.7%	6	46.31	30700000
	91.4%	5	33.06	37000000
	91.0%	6	39.81	31400000
	90.2%	6	38.60	29900000
	69.9%	6	32.46	23000000
	65.3%	6	32.66	34500000
	80.0%	5	50.73	34600000
	91.1%	6	21.56	35300000
	90.7%	6	39.81	35600000

260	75.5%	6	11.88	10900000
	72.2%	6	41.52	34900000
	75.5%	6	39.81	34200000
	88.8%	6	22.16	28900000
	90.3%	6	47.15	23700000
	65.3%	6	34.10	5400000
	86.7%	6	33.96	23500000
	75.5%	6	22.16	17300000
	78.1%	6	47.35	23000000
	88.7%	6	39.81	21600000
270	90.7%	6	45.24	11400000
	87.4%	6	33.11	17100000
	89.2%	3	39.81	10800000
	75.2%	6	39.81	11200000
	71.8%	6	22.16	5500000
	79.3%	6	32.65	10800000
	75.9%	6	39.56	11200000
	75.9%	6	34.23	16600000.0000000002
	81.5%	6	22.16	16300000
	75.9%	5	39.81	10800000
280	54.1%	6	22.10	16300000
	75.9%	3	23.73	22000000
	90.3%	6	21.68	10800000
	81.5%	6	22.16	11100000
	89.7%	3	22.43	4600000
	81.5%	6	22.16	16800000
	81.5%	5	22.10	10900000
	73.3%	6	22.10	10800000
	65.3%	6	28.20	16600000.0000000002
	74.9%	6	22.10	10800000
290	75.9%	5	22.43	16200000
	77.1%	4	22.16	5400000
	89.1%	4	42.32	10900000
	65.3%	5	32.96	45800000



	81.5%	4	50.73	10700000
	91.2%	5	47.35	10800000
	75.9%	6	50.73	10800000
	65.3%	6		5400000
	87.3%	6		5400000
	65.3%	6		10900000
300	75.9%	6		10900000

## A.2 *RUNTIME*

### A.2.1 UM OBJETO POR SEGUNDO

**Tabela 42:** 1 Objeto por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.5%	2	0.09	0

60				
	0.0%	1	0.00	0
	0.0%			
70				
80				
		2	0.00	0
	0.0%			
90				
150				
		2	0.00	0
	0.0%	2		

160				
170				
			0.00	0
	0.0%	2		0
180				
290			0.00	
	0.0%	2	0.00	0

**Tabela 43:** 1 Objeto por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	0.5%	2	0.09	0
60				
170				
		2	0.00	0
180				
260				

	0.0%			
270		2	0.00	0
290	0.0%			
		2	0.00	0
		2		

**Tabela 44:** 1 Objeto por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.5%	2	0.09	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%			
60				
		1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
70	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
90	0.0%	3	0.00	0
	0.0%	3	0.00	0

	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
100	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
110	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
120	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0

	0.0%			
130				
150		2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
160	0.3%	5	0.02	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
170	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0



	0.0%	5	0.00	0
	0.0%	5	0.00	0
180	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.1%	10	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.1%	10	0.00	0
	0.0%	5	0.00	0
190	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
200	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.01	0
210	0.0%	5	0.00	0
	0.0%	5	0.00	0

	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
220	0.0%	10	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
230	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
240	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0

	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
250	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
260	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.01	0
	0.1%	10	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
270	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0

280	0.0%	5	0.00	0
	0.0%	5	0.00	0
290				

**Tabela 45:** 1 Objeto por segundo Runtime Box OnTriggerEnter2D

quadtreesTotal	totalPercent	calls	totalTime	gcMemory
10				
40				
	1.5%	1	0.28	32

50				
	0.0%	1	0.01	0
	0.0%			
60				
170				
		1	0.00	0
	0.0%			
180				
260				

		1	0.00	0
	0.0%	1		
			0.00	0
270	0.0%	1		0
280				
290				

**Tabela 46:** 1 Objeto por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
60				
	0.6%	1	0.10	0
70				
210		1	0.00	0
290				

**Tabela 47:** 1 Objeto por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	0.0%	2	0.10	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
50	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
60	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	4	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0



	0.0%	1	0.00	0
	0.0%	1	0.00	0
70	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
90	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
100	0.0%	1	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
110	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
120	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
	0.0%	1		0
	0.0%	1		0
130				
150			0.00	
			0.00	
			0.00	
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
160	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
170	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
180	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.01	0
190	0.2%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
200	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
	0.0%	2	0.01	0
210	0.0%	2	0.01	0
			0.01	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.01	0
220	0.0%	2	0.00	0
	0.0%	1	0.01	0

	0.0%	2	0.01	0
	0.0%	1	0.00	0
	0.1%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
230	0.0%	1	0.01	0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.1%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
240	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
250	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
260	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
270	0.0%	1	0.00	
	0.0%	1		0
			0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
280	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.05	0
	0.0%	2	0.00	0
	1.0%	4	0.00	0
	0.0%	2	0.00	0

290	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

**Tabela 48:** 1 Objeto por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.8%	6	0.37	0
	0.8%	2	0.12	0
	0.6%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.3%	1	0.06	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
10	0.2%	1	0.07	0
	0.8%	1	0.05	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.3%	1	0.06	0
	0.3%	1	0.06	0
	0.3%	1	0.06	0
	0.4%	1	0.06	0
	0.3%	1	0.06	0
20	0.2%	1	0.07	0
	3.3%	1	0.21	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0

	0.4%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.2%	1	0.07	0
30	0.2%	1	0.05	0
	1.5%	2	0.13	0
	0.6%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.3%	1	0.06	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.08	0
40	0.3%	1	0.07	0
	0.7%	1	0.07	0
	2.4%	1	0.44	72
	1.2%	1	0.20	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.11	0
	0.5%	1	0.09	0
50	0.3%	1	0.09	0
	0.9%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	1.6%	1	0.27	7100
	1.5%	1	0.26	7100
	1.0%	1	0.16	7100
	0.9%	1	0.16	7100
	1.5%	1	0.24	7100



	0.3%	1	0.09	0
60	0.5%	1	0.18	0
	2.2%	2	0.16	0
	1.3%	1	0.21	0
	0.6%	1	0.09	0
	0.7%	1	0.12	0
	0.5%	1	0.09	0
	0.9%	1	0.15	3600
	1.0%	1	0.17	3600
	1.1%	1	0.19	3600
	0.6%	1	0.14	3600
70	1.5%	1	0.14	3600
	0.8%	1	0.15	3600
	0.9%	1	0.15	3600
	0.9%	1	0.15	3600
	0.9%	1	0.15	3600
	0.8%	1	0.15	3600
	0.8%	1	0.15	3600
	1.0%	1	0.16	3600
	0.9%	1	0.15	3600
	0.6%	1	0.15	3600
80	1.3%	1	0.14	3600
	0.8%	1	0.15	3600
	0.9%	1	0.13	3600
	0.9%	1	0.15	3600
	0.9%	1	0.14	3600
	0.9%	1	0.15	3600
	0.8%	1	0.15	3600
	1.0%	1	0.16	10700
	0.9%	1	0.15	10700
	0.4%	1	0.16	10700
90	0.5%	1	0.11	10700
	4.0%	1	0.18	10700
	0.9%	1	0.16	10700

	0.9%	1	0.16	10700
	0.9%	1	0.16	10700
	1.0%	1	0.17	10700
	0.9%	1	0.15	10700
	0.9%	1	0.15	10700
	0.6%	1	0.15	10700
	1.7%	1	0.15	10700
100	1.0%	1	0.16	10700
	1.2%	1	0.20	10700
	1.0%	1	0.16	10700
	1.0%	1	0.17	10700
	0.9%	1	0.16	10700
	0.9%	1	0.15	10700
	1.0%	1	0.16	10700
	0.9%	1	0.16	10700
	0.7%	1	0.16	10700
	1.7%	1	0.16	10700
110	0.9%	1	0.16	10700
	0.9%	1	0.16	10700
	0.9%	1	0.16	10700
	1.0%	1	0.17	10700
	29.9%	1	8.76	10700
	3.3%	1	0.15	10700
	0.9%	1	0.16	10700
	0.6%	1	0.16	10700
	1.7%	1	0.16	10700
	0.7%	1	0.16	10700
120	0.6%	1	0.13	10700
	3.3%	1	0.17	10700
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.3%	1	0.07	0

	0.8%	1	0.07	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
130	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
	0.3%	1	0.07	0
	0.5%	1	0.08	0
	0.3%	1	0.07	0
	0.9%	1	0.07	0
	0.4%	1	0.07	0
	0.6%	1	0.10	0
	0.4%	1	0.07	0
140	0.3%	1	0.06	0
	0.5%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.07	0
	0.3%	1	0.06	0
	0.3%	1	0.08	0
	1.7%	1	0.14	7100
	1.0%	1	0.16	10700
	1.0%	1	0.16	10700
	0.5%	1	0.16	10700
150	1.6%	1	0.32	10700
	3.1%	1	0.16	10700
	1.1%	1	0.18	17800
	1.0%	1	0.17	17800
	0.7%	1	0.18	17800
	2.8%	1	0.20	17800
	1.1%	1	0.18	17800
	1.0%	1	0.17	17800
	1.0%	1	0.17	17800
	1.0%	1	0.15	17800
160	1.1%	1	0.18	17800

	1.0%	1	0.17	17800
	1.0%	1	0.17	17800
	1.0%	1	0.17	17800
	0.7%	1	0.17	17800
	2.1%	1	0.18	17800
	1.2%	1	0.21	17800
	1.1%	1	0.17	17800
	1.0%	1	0.18	17800
	1.0%	1	0.17	17800
170	1.0%	1	0.17	17800
	1.0%	1	0.17	17800
	1.1%	1	0.19	24900
	1.1%	1	0.19	24900
	0.7%	1	0.19	17800
	6.1%	1	0.50	17800
	1.4%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	0.5%	1	0.18	17800
180	1.6%	1	0.32	17800
	6.5%	2	0.40	35500
	1.0%	1	0.17	17800
	0.8%	1	0.18	17800
	2.1%	1	0.18	17800
	1.1%	1	0.19	17800
	1.1%	1	0.18	17800
	1.1%	1	0.19	17800
	1.1%	1	0.19	17800
	1.1%	1	0.18	17800
190	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
	1.0%	1	0.19	17800
	0.8%	1	0.18	17800
	2.1%	1	0.17	17800

	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
200	1.0%	1	0.22	17800
	1.1%	1	0.19	17800
	0.7%	1	0.18	17800
	2.7%	1	0.17	17800
	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.20	17800
	0.6%	1	0.18	17800
210	1.2%	1	0.27	17800
	4.4%	2	0.35	35500
	0.8%	1	0.18	17800
	1.7%	1	0.17	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
220	1.1%	1	0.18	17800
	1.0%	1	0.18	17800
	0.7%	1	0.18	17800
	1.7%	1	0.17	17800
	1.1%	1	0.18	17800
	1.0%	1	0.18	17800
	1.2%	1	0.18	17800
	1.0%	1	0.18	17800
	1.1%	1	0.18	17800

	1.0%	1	0.18	17800
230	1.0%	1	0.17	17800
	1.0%	1	0.18	17800
	0.6%	1	0.18	17800
	4.2%	1	0.37	17800
	1.3%	1	0.18	17800
	1.0%	1	0.18	17800
	1.2%	1	0.19	17800
	1.1%	1	0.19	17800
	1.1%	1	0.18	17800
	0.6%	1	0.21	17800
240	0.9%	1	0.23	17800
	1.6%	1	0.19	17800
	1.9%	1	0.18	17800
	1.0%	1	0.18	17800
	1.0%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
	1.1%	1	0.19	17800
	1.1%	1	0.18	17800
	1.1%	1	0.18	17800
250	1.1%	1	0.19	17800
	0.8%	1	0.19	17800
	30.8%	1	9.10	17800
	6.0%	2	0.31	35500
	1.1%	1	0.18	17800
	1.1%	1	0.19	17800
	1.2%	1	0.19	17800
	1.1%	1	0.18	17800
	1.2%	1	0.22	17800
260	0.7%	1	0.17	17800
	2.3%	1	0.18	17800
	1.0%	1	0.19	17800

	1.2%	1	0.19	17800
	1.1%	1	0.19	17800
	1.1%	1	0.19	17800
	1.2%	1	0.21	17800
	1.1%	1	0.19	17800
	1.3%	1	0.21	17800
	0.6%	1	0.19	17800
270	0.6%	1	0.20	7100
	8.5%	2	0.44	0
	0.8%	1	0.13	0
	0.7%	1	0.13	0
	0.8%	1	0.13	0
	0.9%	1	0.15	0
	0.7%	1	0.13	0
	0.7%	1	0.13	0
	0.7%	1	0.13	0
	0.5%	1	0.13	0
280	1.5%	1	0.13	0
	0.8%	1	0.13	0
	0.8%	1	0.13	0
	0.8%	1	0.14	0
	0.8%	1	0.13	0
	0.7%	1	0.13	0
	0.7%	1	0.13	0
	0.4%	1	0.13	0
	0.7%	1	0.12	0
	1.6%	1	0.12	0
290	1.1%	1	0.18	7100
	1.1%	1	0.18	7100
	0.8%	1	0.13	0
	0.6%	1	0.13	0
	0.0%	1	0.13	0

**Tabela 49:** 1 Objeto por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.7%	1	0.13	80
60				
110				
	0.7%	1		80
	0.7%			
	0.7%			



120				
230			0.12	
		1		80
				80
	0.7%			
240				
290				

#### A.2.2 DEZ OBJETOS POR SEGUNDO

**Tabela 50:** 10 Objetos por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.5%	2	0.23	32
	0.0%	4	0.00	0
	0.0%			

10				
		4	0.00	0
	0.0%			
		6	0.00	0
20	0.0%	6		
			0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
30				
	0.1%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
40				

	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
50				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
60	0.0%	2	0.00	0
	0.0%	8	0.01	0
	0.0%			
		6	0.00	0
	0.0%			
70				
		8	0.00	0
	0.0%	6		

			0.00	0
80	0.0%	6		0
			0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
90				
	0.0%	1	0.00	0
	0.1%	10	0.02	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
100	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2		
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
110	0.0%	8	0.00	0

	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
120				
	0.0%	8	0.00	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
130	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
140	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	6	0.00	0
	0.0%	2	0.00	0
150				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
160				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

180				
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
190				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
200				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
210				
	0.0%	10	0.00	0

	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
220				
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
230				
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
240				
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0



	0.0%	2	0.00	0
250	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
260				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
270				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
280				

	0.0%	7	0.00	0
	0.0%	4	0.00	0

**Tabela 51:** 10 Objetos por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.5%	2	0.09	0
10				
	0.0%	2	0.00	0
	0.0%			
20				

		2	0.00	0
	0.0%			
30		2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
40				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
50	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
60	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
80				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%			
90				

		2	0.00	0
	0.0%	6	0.00	0
	0.0%	2		0
			0.00	
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
100	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%			
110		2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
120	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
130	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			
		4	0.00	0
	0.0%	2		
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
140	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
150				
	0.0%	2	0.00	0
	0.1%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2		
160				
			0.00	0
	0.0%	4		0
			0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
170				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
180				
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
190	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	

	0.0%			0
		2	0.00	0
	0.0%	4	0.00	0
	0.0%	2		
			0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	
200				0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	
	0.0%	8		
				0
210				0
			0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	
			0.00	0
	0.0%	4		
	0.0%			0
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
220	0.0%	8		
			0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
		2	0.00	



	0.0%			0
	0.0%	2	0.00	0
				0
230				
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
				0
	0.0%	2	0.00	
240				0
	0.0%	4	0.00	
				0
	0.0%	2	0.00	0
	0.0%	6	0.00	
	0.0%	2	0.00	0
	0.0%	6	0.00	0
			0.00	0
	0.1%	8		0
	0.0%	2	0.00	0
250	0.0%	2	0.00	
				0
				0
				0
	0.0%	4	0.00	0
	0.0%	8	0.00	
	0.0%	2	0.00	
	0.0%	7	0.00	0
	0.0%	2	0.00	0
260	0.0%	4	0.01	0

	0.0%	2	0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
				0
				0
	0.0%	2	0.00	0
270	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	
				0
				0
	0.0%	4	0.00	0
280	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	4	0.00	
				0
				0
	0.0%	6	0.00	0
				0
	0.0%	4	0.00	

**Tabela 52:** 10 Objetos por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

	0.8%	4	0.10	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
10	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
20	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.02	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	18	0.01	0
30	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.7%	16	0.04	0
	0.0%	32	0.05	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
40	0.0%	16	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.01	
	0.0%	18	0.00	0
		18		
	0.2%	20	0.03	0
50				0
	0.0%	38	0.01	0
	0.0%		0.01	0
	0.0%	18	0.00	0
	0.0%	20	0.01	0
	0.0%	18	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	18	0.00	0
	0.1%	18	0.00	0
60	0.0%	22	0.01	0
	0.0%	20	0.01	0
	0.2%	16	0.01	0
	0.0%	16	0.00	0
	0.3%	42	0.05	0
	0.0%	24	0.03	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.00	0
	0.1%	24	0.00	0
70	0.0%	24	0.00	0

	0.0%	24	0.01	0
	0.0%	20	0.00	0
	0.0%	26	0.00	0
	0.0%	24	0.00	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	22	0.01	0
80	0.0%	22	0.01	0
	0.0%	22	0.02	0
	0.0%	22	0.01	0
	0.0%	22	0.00	0
	0.1%	28	0.02	0
	0.0%	22	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	26	0.01	0
90	0.0%	28	0.01	0
	0.0%	22	0.01	0
	0.0%	24	0.01	0
	0.0%	22	0.01	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
	0.4%	25	0.04	0
	0.0%	33	0.04	0
	0.1%	31	0.01	0
	0.0%	29	0.01	0
100	0.0%	33	0.01	0
	0.0%	29	0.01	0
	0.0%	31	0.01	0
	0.0%	29	0.01	0
	0.0%	27	0.01	0

	0.0%	33	0.01	0
	0.0%	29	0.01	0
	0.0%	33	0.01	0
	0.2%	31	0.01	0
	0.0%	27	0.01	0
110	0.0%	25	0.01	0
	0.0%	25	0.01	0
	0.0%	25	0.01	0
	0.0%	21	0.01	0
	0.0%	23	0.01	0
	0.0%	21	0.00	0
	0.0%	23	0.01	0
	0.0%	27	0.00	0
	0.0%	27	0.01	0
	0.0%	21	0.01	0
120	0.0%	23	0.01	0
	0.0%	23	0.00	0
	0.0%	21	0.00	0
	0.0%	19	0.00	0
	0.0%	21	0.00	0
	0.0%	19	0.00	0
	0.0%	19	0.00	0
	0.1%	19	0.00	0
	0.1%	40	0.00	0
	0.0%	24	0.01	0
130	0.0%	25	0.00	0
	0.0%	23	0.00	0
	0.0%	21	0.00	0
	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.00	0

	0.0%	24	0.01	0
140	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	26	0.01	0
	0.0%	28	0.01	0
	0.0%	26	0.01	0
	0.0%	22	0.01	0
	0.0%	28	0.01	0
150	0.0%	20	0.00	0
	0.0%	24	0.00	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	30	0.01	0
	0.0%	32	0.01	0
	0.2%	30	0.01	0
	0.0%	30	0.02	0
	0.1%	30	0.01	0
160	0.2%	30	0.01	0
	0.3%	34	0.05	0
	0.0%	32	0.01	0
	0.2%	30	0.04	0
	0.0%	30	0.01	0
	0.1%	30	0.02	0
	0.2%	36	0.03	0
	0.2%	36	0.02	0
	0.0%	34	0.01	0
	0.1%	30	0.01	0
170	0.0%	32	0.01	0
	0.1%	38	0.01	0
	0.0%	38	0.01	0

	0.1%	38	0.01	0
	0.1%	40	0.01	0
	0.1%	40	0.01	0
	0.1%	38	0.01	0
	0.0%	46	0.01	0
	0.1%	48	0.01	0
	0.1%	46	0.01	0
180	0.1%	40	0.01	0
	0.0%	40	0.01	0
	0.1%	42	0.01	0
	0.1%	50	0.02	0
	0.1%	46	0.01	0
	0.1%	48	0.01	0
	0.1%	46	0.01	0
	0.0%	42	0.01	0
	0.0%	44	0.01	0
	0.1%	48	0.03	0
190	0.7%	92	0.03	0
	0.1%	44	0.01	0
	0.1%	46	0.01	0
	0.1%	46	0.02	0
	0.1%	50	0.01	0
	0.1%	52	0.02	0
	0.0%	52	0.02	0
	0.2%	50	0.01	0
	0.1%	52	0.02	0
	0.1%	50	0.02	0
200	0.1%	58	0.02	0
	0.1%	58	0.02	0
	0.1%	54	0.02	0
	0.3%	56	0.06	0
	0.1%	54	0.02	0
	0.1%	52	0.02	0
	0.1%	58	0.02	0



	0.1%	56	0.02	0
	0.2%	54	0.03	0
210	0.1%	54	0.02	0
	0.1%	54	0.02	0
	0.1%	58	0.02	0
	0.1%	56	0.02	0
	0.1%	54	0.03	0
	0.2%	54	0.02	0
	0.1%	52	0.02	0
	0.1%	52	0.02	0
	0.1%	60	0.03	0
	0.1%	58	0.03	0
220	0.5%	104	0.04	0
	0.1%	50	0.02	0
	0.1%	50	0.02	0
	0.1%	48	0.02	0
	0.1%	54	0.02	0
	0.0%	52	0.02	0
	0.1%	56	0.02	0
	0.1%	56	0.02	0
	0.1%	52	0.02	0
	0.1%	50	0.02	0
230	0.2%	60	0.04	0
	0.1%	62	0.02	0
	0.1%	64	0.02	0
	0.1%	64	0.02	0
	0.1%	68	0.03	0
	0.2%	68	0.04	0
	0.2%	72	0.03	0
	0.2%	70	0.06	0
	0.5%	66	0.03	0
	0.2%	68	0.03	0
240	0.1%	66	0.02	0

	0.1%	66	0.02	0
	0.1%	68	0.02	0
	0.1%	68	0.02	0
	0.1%	68	0.03	0
	0.1%	64	0.03	0
	0.1%	62	0.02	0
	0.1%	56	0.02	0
	0.0%	56	0.02	0
	0.1%	56	0.03	0
250	0.5%	50	0.03	0
	0.1%	50	0.03	0
	0.1%	50	0.02	0
	0.1%	56	0.02	0
	0.1%	56	0.02	0
	0.2%	56	0.04	0
	0.2%	54	0.03	0
	0.1%	48	0.02	0
	0.1%	46	0.01	0
	0.1%	52	0.02	0
260	0.3%	47	0.09	0
	0.2%	45	0.02	0
	0.5%	43	0.10	0
	0.1%	41	0.03	0
	0.1%	37	0.01	0
	0.1%	41	0.01	0
	0.1%	41	0.01	0
	0.1%	37	0.01	0
	0.1%	37	0.02	0
	0.1%	39	0.02	0
270	0.1%	39	0.01	0
	0.1%	39	0.02	0
	0.1%	43	0.01	0
	0.1%	43	0.02	0
	0.2%	45	0.03	0

	0.2%	43	0.03	0
	0.0%	41	0.01	0
	0.1%	37	0.02	0
	0.0%	41	0.01	0
	0.1%	43	0.03	0
280	0.3%	43	0.02	0
	0.1%	41	0.02	0
	0.0%	39	0.01	0
	0.1%	43	0.01	0
	0.2%	39	0.02	0
	0.1%	43	0.02	0
	0.1%	45	0.03	0
	0.1%	39	0.03	0

**Tabela 53:** 10 Objetos por segundo Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	1.0%	1	0.14	0

70				
80				
	0.0%	1	0.00	0
	0.0%			
90				
		1	0.00	0
	0.0%			
100				
		1	0.00	0
	0.0%	1		

110				
			0.00	0
120	0.0%	1		0
130				
			0.00	
	0.0%	1	0.00	0
140				

190				
	0.0%	1	0.00	0
200				
230				
	0.0%	1	0.00	0
240				
250				
	0.0%	1	0.00	0

260				
280				
	0.0%	1	0.00	0
	0.0%	1	0.00	0

**Tabela 54:** 10 Objetos por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				

	0.5%	1	0.09	0
				0
				0
90				
120				
		1	0.00	
				0
	0.0%			
130		1	0.00	
				0
140				



	0.0%			
			0.00	
150				
				0
160				
180				
	0.0%	1		
			0.00	
190				
210	0.0%	1		
				0

220				
270				
	0.0%	1	0.00	
	0.0%	1	0.00	0
280				
				0

**Tabela 55:** 10 Objetos por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
60				
	0.5%	1	0.08	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
70	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

90	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
100	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
110	0.0%	3	0.01	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
120	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.01	0
	0.0%	3	0.01	0

	0.1%	8	0.01	0
	0.1%	4	0.02	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.01	0
130	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
140	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.00	0
150	0.0%	3	0.01	0
	0.0%	2	0.01	0
	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.1%	3	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0

	0.0%	2	0.01	0
	0.0%	2	0.00	0
160	0.0%	2	0.00	0
	0.1%	2	0.01	0
	0.0%	2	0.02	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
170	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
180	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	4	0.00	0
190	0.0%	2	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
200	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%		0.00	0
	0.1%	2	0.01	
210		2		0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
220	0.0%	1	0.00	0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
230	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
240	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
250	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0



260	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.01	0
	0.0%	3	0.00	0
270	0.1%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	6	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
280	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	3	0.00	0
	0.0%	3	0.00	0

**Tabela 56:** 10 Objetos por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory

	1.6%	6	0.71	7100
	2.3%	1	0.32	14200
	2.9%	1	0.17	167100
	1.7%	1	0.12	7100
	0.8%	1	0.29	42700
	2.6%	1	0.29	167100
	2.6%	1	0.59	42700
	0.7%	1	0.16	7100
10	2.3%	1	0.16	21300
	1.5%	1	0.16	21300
	1.0%	1	0.29	14200
	1.3%	1	0.20	42700
	1.1%	1	0.18	14200
	2.9%	1	0.18	14200
	2.9%	1	0.18	28400
	1.1%	1	0.59	192000
	0.9%	1	0.59	192000
	1.1%	1	0.19	28400
20	1.3%	1	0.20	21300
	2.3%	1	0.23	21300
	1.3%	1	0.29	21300
	1.2%	1	0.29	42700
	2.3%	1	0.26	42700
	1.1%	1	0.19	42700
	1.9%	1	0.26	71100
	1.4%	1	0.18	42700
	1.3%	1	0.21	42700
	1.0%	1	0.22	71100
30	1.3%	1	0.22	42700
	1.2%	1	0.23	42700
	1.5%	1	0.26	64000
	0.9%	1	0.25	64000
	1.2%	1	0.33	71100
	8.6%	1	0.64	64000

	1.3%	1	0.22	64000
	1.4%	1	0.21	156400
	1.3%	1	0.21	56900
	1.1%	1	0.20	49800
40	1.2%	1	0.26	49800
	1.2%	1	0.25	71100
	1.6%	1	0.26	42700
	1.1%	1	0.22	71100
	1.3%	1	0.26	71100
	1.4%	1	0.24	64000
	1.1%	1	0.26	64000
	1.7%	1	0.24	64000
	1.3%		0.26	64000
		2	0.24	71100
50	2.6%		0.23	92400
	1.1%	1		78200
		1		71100
	1.4%	1	0.26	
	1.4%	1	0.24	
	1.1%	1	0.25	85300
	1.6%	1	0.24	85300
	1.7%	1	0.22	78200
	1.7%	1	0.26	71100
	1.5%	1	0.25	71100
60	28.9%	1	0.22	71100
	2.5%	1	0.26	92400
	1.7%	2	6.69	92400
	1.3%	1	0.25	78200
	3.1%	1	0.24	71100
	1.7%	1	0.23	71100
	5.0%	1	0.23	71100
	1.7%	1	0.75	85300
	3.1%	1	0.48	92400
	2.1%	1	0.41	85300

70	1.5%	1	0.25	92400
	1.7%	1	0.34	85300
	1.5%	1	0.24	92400
	1.4%	1	0.25	85300
	1.6%	1	0.28	99500
	1.5%	1	0.25	92400
	1.7%	1	0.26	92400
	2.0%	1	0.25	85300
	1.6%	1	0.27	99500
	1.5%	1	0.25	99500
80	1.4%	1	0.25	78200
	1.4%	1	0.27	78200
	1.7%	1	0.27	78200
	1.4%	1	0.33	99500
	2.2%	1	0.28	99500
	1.6%	1	0.26	99500
	1.4%	1	0.35	99500
	2.1%	1	0.26	99500
	2.1%	1	0.28	106600
	1.7%	1	0.33	106600
90	1.9%	1	0.30	99500
	1.7%	1	0.31	120900
	1.5%	1	0.33	99500
	1.6%	1	0.32	92400
	1.0%	1	0.33	85300
	1.9%	1	0.29	88900
	2.4%	1	0.33	124400
	1.8%	1	0.29	124400
	1.9%	1	0.26	96000
	1.9%	1	0.26	131500
100	1.9%	1	0.27	110200
	1.9%	1	7.84	131500
	1.8%	1	0.61	124400
	2.0%	1	0.74	96000

	1.8%	1	0.29	117300
	1.4%	1	0.30	117300
	2.3%	1	0.33	124400
	32.2%	1	7.84	81800
	1.9%	1	0.32	96000
	2.3%	1	0.34	96000
110	1.8%	1	0.29	96000
	1.9%	1	0.35	96000
	1.8%	1	0.30	88900
	1.8%	1	7.84	81800
	1.5%	1	7.84	117300
	2.3%	1	7.84	103100
	2.3%	1	0.37	96000
	1.7%	1	0.33	81800
	1.8%	1	0.31	81800
	2.0%	1	0.32	81800
120	1.8%	1	0.31	96000
	1.9%	1	0.31	96000
	1.5%	1	0.34	81800
	1.9%	1	0.32	67500
	1.5%	1	0.32	67500
	0.8%	1	0.31	67500
	4.9%	1	0.31	92400
	6.3%	1	0.29	170600
	1.8%	1	0.29	92400
	1.7%	2	0.32	88900
130	1.6%	1	0.33	88900
	1.9%	1	0.30	92400
	1.8%	1	0.26	113800
	1.5%	1	0.27	106600
	1.7%	1	1.11	99500
	2.0%	1	0.30	92400
	2.1%	1	0.45	85300
	2.4%	1	0.30	85300

	2.1%	1	0.28	106600
	1.8%	1	0.28	113800
140	2.1%	1	0.28	113800
	2.2%	1	0.31	113800
	1.8%	1	0.30	106600
	2.3%	1	0.31	113800
	1.9%	1	0.30	99500
	2.1%	1	0.30	120900
	2.1%	1	0.31	106600
	2.1%	1	0.37	113800
	1.9%	1	0.33	99500
	1.8%	1	0.34	99500
150	2.0%	1	0.33	92400
	1.9%	1	0.37	113800
	1.9%	1	0.32	120900
	5.1%	1	0.30	113800
	28.5%	1	0.32	113800
	2.6%	1	0.33	106600
	5.1%	1	0.30	106600
	1.3%	1	0.32	135100
	2.9%	1	0.31	135100
	10.8%	1	0.29	142200
160	2.0%	1	0.34	142200
	6.1%	1	0.32	135100
	2.9%	1	0.31	120900
	5.1%	1	0.32	113800
	3.8%	1	7.37	106600
	2.3%	1	0.35	128000
	2.0%	1	0.40	128000
	2.9%	1	0.61	135100
	2.5%	1	0.70	120900
	2.4%	1	0.34	128000
170	2.7%	1	0.40	142200
	2.2%	1	0.95	142200

	2.5%	1	0.52	177700
	2.1%	1	0.78	142200
	2.5%	1	0.64	149300
	2.1%	1	0.40	149300
	2.1%	1	0.41	170600
	2.2%	1	0.40	177700
	1.9%	1	0.35	177700
	2.5%	1	0.44	184800
180	2.2%	1	0.38	177700
	2.1%	1	0.40	163500
	2.4%	1	0.37	149300
	2.7%	1	0.34	177700
	2.2%	1	0.34	184800
	2.4%	1	0.37	192000
	2.1%	1	0.39	170600
	1.8%	1	0.37	192000
	1.5%	1	0.37	170600
	42.2%	1	0.38	170600
190	2.7%	1	0.37	192000
	16.0%	1	0.35	192000
	2.3%	1	0.39	334100
	2.4%	2	0.37	177700
	2.8%	1	0.39	184800
	2.7%	1	0.37	192000
	2.6%	1	0.39	220400
	1.6%	1	0.43	213300
	2.6%	1	0.37	192000
	5.1%	1	11.33	192000
200	3.0%	1	0.80	192000
	2.9%	1	0.40	234600
	2.9%	1	0.42	206200
	2.7%	1	0.46	220400
	2.6%	1	0.43	206200
	3.6%	1	0.44	220400

	2.9%	1	0.44	199100
	2.9%	1	0.43	220400
	2.6%	1	0.43	213300
	2.3%	1	0.43	206200
210	3.3%	1	0.51	199100
	3.2%	1	0.49	
		1	8.09	206200
	2.6%	1	0.44	192000
	3.2%	1	0.46	220400
	2.2%		0.64	220400
	2.7%	1	0.44	206200
	2.8%	1	0.48	199100
	30.9%	1	0.48	199100
	3.9%	1	0.45	199100
220	2.9%	1	0.46	199100
	3.8%	1		220400
	2.1%	1	0.47	220400
	13.8%	1	8.09	213300
	2.7%	1	0.52	398100
	2.6%	2	0.46	177700
	2.2%	1	8.09	184800
	3.2%	1	0.44	213300
	2.7%	1	0.50	199100
	2.2%	1	0.44	206200
230	2.7%	1	0.52	199100
	3.2%	1	0.46	199100
	2.8%	1	0.52	199100
	3.0%	1	0.43	248800
	3.6%	1	0.43	220400
	3.1%	1	0.52	220400
	3.3%	1	0.45	227500
	2.9%	1	0.48	227500
	3.2%	1	0.47	241700
	2.8%	1	0.50	248800



240	2.8%	1	0.45	263000
	3.7%	1	0.45	255900
	3.1%	1	0.50	255900
	38.7%	1	0.49	241700
	9.2%	1	0.61	152900
	2.7%	1	0.50	241700
	3.0%	1	0.50	255900
	3.2%	1	0.53	248800
	2.7%	1	0.52	255900
	3.1%	1	0.52	248800
250	2.9%	1	0.55	248800
	2.7%	1	0.54	255900
	3.0%	1	9.15	248800
	2.5%	1	0.56	227500
	3.3%	1	0.53	220400
	3.3%	1	0.46	206200
	3.3%	1	0.50	213300
	3.3%	1	0.48	192000
	2.8%	1	0.49	206200
	1.6%	1	0.48	199100
260	12.7%	1	0.49	192000
	2.2%	1	0.49	142200
	3.2%	1	0.52	213300
	3.1%	1	0.45	199100
	3.6%	1	0.48	192000
	3.1%	1	0.46	192000
	3.1%	1	0.52	192000
	3.1%	1	0.52	192000
	2.3%	1	0.46	192000
	4.0%	1	0.52	174200
270	3.9%	1	0.52	152900
	2.9%	1	0.52	167100
	2.9%	1	8.11	167100
	3.1%	1	0.56	160000

	2.9%	1	0.54	152900
	32.8%	1	0.59	167100
	5.7%	1	0.49	145700
	4.5%	1	0.59	152900
	3.2%	1	0.49	138600
	2.6%	1	0.48	167100
280	3.8%	1	8.43	167100
	3.2%	1	0.46	167100
	2.8%	1	0.60	152900
	2.6%	1	0.51	167100
	3.0%	1	0.45	160000
	3.3%	1	0.46	160000
	2.6%	1	0.45	152900
	2.7%	1	0.57	152900

**Tabela 57:** 10 Objetos por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.3%	1	0.15	80
	0.7%	1	0.13	80
10				
	0.9%	1	0.13	80

	0.8%	1	0.12	80
20				
	0.7%	1	0.12	80
30	0.7%	1	0.19	80
	0.8%	1	0.13	80
40				
	0.7%	1	0.11	80
50				

60				
	0.7%	1	0.12	80
70				
	0.8%	1	0.13	80
	0.8%	1	0.12	80
80				
	0.7%	1	0.13	80
	0.4%	1	0.11	80
90				

	0.7%	1	0.12	80
100				
	0.5%	1	0.14	80
110				
	0.7%	1	0.12	80
	0.3%	1	0.11	80
120				
	0.8%	1	0.13	80

130	0.8%	1	0.12	80
	0.7%	1	0.11	80
140				
	0.7%	1	0.11	80
	0.9%	1	0.11	80
150				
	1.2%	1	0.22	80
160	0.9%	1	0.14	80

	0.7%	1	0.13	80
170				
	0.7%	1	0.11	80
	0.5%	1	0.11	80
180				
	0.7%	1	0.13	80
	0.9%	1	0.13	80
190				

	0.8%	1	0.13	80
200				
210				
	0.7%	1	0.12	80
	0.8%	1	0.12	80
220				
	0.9%	1	0.16	80



230				
	0.9%	1	0.15	80
	1.0%	1	0.15	80
240				
260				
	1.0%	1	0.16	80
	1.2%	1	0.20	80
270				
280				
	1.2%	1	0.16	80

### A.2.3 CINQUENTA OBJETOS POR SEGUNDO

**Tabela 58:** 50 Objetos por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.4%	6	0.23	32
	0.0%	6	0.00	0
	0.0%			
		6	0.00	0
	0.0%			
		8	0.00	0
10	0.0%	8		
			0.00	0
	0.0%	8		0
			0.00	
	0.0%	8	0.00	0
20	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0

30				
	0.1%	10	0.03	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
40	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
50				
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
60	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%			

		14	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	12	0.03	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	18	0.01	0
	0.0%	2	0.00	0
80	0.1%	16	0.01	0
	0.0%	2	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	16	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	18	0.00	0
90				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	12	0.01	0
	0.0%	2	0.00	0
	0.0%	16	0.01	0
	0.0%	10	0.00	0
	0.0%			

		20	0.00	0
	0.0%			
100		6	0.00	0
	0.0%	18	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.02	0
	0.0%	8	0.00	0
	0.0%	18	0.01	0
	0.0%	2	0.00	0
	0.1%	18	0.02	0
	0.0%	2	0.00	0
110	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%			
		2	0.00	0
	0.0%	12	0.00	0
	0.0%	2		
120			0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	16	0.01	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
130	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%			
		2	0.00	0
	0.0%	20	0.00	0
	0.0%			
140		2	0.00	0
	0.0%	20	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
150	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%			
		18	0.00	0
	0.0%			
		14	0.00	0
	0.0%	4	0.00	0
160	0.0%			
		16	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.02	0

	0.1%			
		20	0.01	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
170	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%			
		4	0.00	0
	0.0%	14	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	22	0.02	0
180	0.1%	6	0.00	0
	0.0%			
		16	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.05	0
	0.2%	14	0.00	0
	0.0%	18	0.01	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	20	0.00	0
190	0.1%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	22	0.02	0
	0.1%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.01	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	6	0.00	0

200	0.0%	4	0.00	0
	0.0%	26	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.02	0
	0.1%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
210	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	30	0.03	0
	0.1%	6	0.00	0
	0.0%	28	0.02	0
	0.2%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	32	0.02	0
	0.1%	8	0.00	0
220	0.0%	10	0.00	0
	0.0%	22	0.01	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	26	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	22	0.01	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
230	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	22	0.00	0



	0.0%	26	0.01	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.0%	18	0.00	0
240	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	24	0.01	0
	0.0%	14	0.00	0
	0.0%	30	0.01	0
	0.0%	4	0.00	0
	0.0%	22	0.00	0
	0.1%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	30	0.01	0
250	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	20	0.00	0
	0.1%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
260	0.0%			
		20	0.01	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	22	0.01	0
	0.0%	8	0.00	0

	0.0%			
		22	0.00	0
270	0.1%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	36	0.02	0
	0.0%	14	0.00	0
	0.1%	22	0.00	0
	0.0%	6	0.00	0
	0.0%	24	0.01	0
	0.0%	2	0.00	0
	0.0%			
		20	0.00	0
280	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	22	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	24	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
290	0.0%	4	0.00	0
	0.0%	18	0.01	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.00	0

**Tabela 59:** 50 Objetos por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

	1.1%	2	0.11	0
	0.0%	4	0.00	0
	0.0%			
		2	0.00	0
10	0.0%	2	0.00	0
	0.0%	2		
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.01	0
20				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
30	0.0%	2	0.00	0
	0.0%	10	0.01	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.0%	10	0.00	0
40	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
50	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
60	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
70	0.0%	6	0.00	0

	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
80	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
90	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
100				
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0

	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
110	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
120	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
130	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	4	0.00	0
140	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
150	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
160	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
170	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0

	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.01	0
180	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	4	0.01	0
190	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
200	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	16	0.00	0
	0.0%	2	0.00	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0



	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
210	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
220	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.1%	2	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.01	0
	0.0%	20	0.00	0
	0.0%	2	0.00	0
	0.0%	22	0.01	0
	0.1%	12	0.01	0
	0.0%	6	0.00	0
230	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	18	0.00	0
	0.0%	16	0.00	0
	0.0%	2	0.00	0
	0.0%	18	0.00	0
	0.0%	14	0.00	0
240	0.1%	8	0.00	0

	0.0%	24	0.01	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.00	0
	0.0%	18	0.00	0
250	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.02	0
	0.0%	14	0.00	0
	0.1%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.01	0
260	0.1%	14	0.01	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.01	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.1%	4	0.00	0
270	0.0%	12	0.03	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	4	0.00	0

	0.0%	16	0.00	0
	0.0%	10	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.01	0
280	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.1%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	28	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
290	0.0%	18	0.01	0
	0.0%	10	0.00	0
	0.1%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	6	0.00	0

**Tabela 60:** 50 Objetos por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.1%	6	0.06	0
	0.2%	14	0.02	0
	0.2%	10	0.02	0
	0.2%	6	0.00	0
	0.0%	6		
			0.01	0
	0.1%	6	0.01	0
	0.0%	12	0.01	0

10	0.0%	10	0.01	0
	0.0%	16	0.00	0
	1.4%	16	0.12	0
	0.2%	14	0.03	0
	0.0%	12	0.01	0
	0.0%	18	0.01	0
	0.2%	18	0.04	0
	0.3%	18	0.06	0
	0.6%	22	0.10	0
	0.1%	22	0.01	0
20	0.0%	22	0.01	0
	0.0%	28	0.07	0
	0.1%	26	0.02	0
	0.1%	26	0.07	0
	0.1%	26	0.01	0
	0.2%	34	0.02	0
	0.1%	34	0.02	0
	0.1%	42	0.03	0
	0.1%	34	0.02	0
	0.0%	44	0.01	0
30	0.3%	72	0.02	0
	0.7%	42	0.02	0
	0.1%	38	0.07	0
	0.1%	36	0.05	0
	0.1%	46	0.02	0
	0.7%	56	0.06	0
	0.1%	56	0.02	0
	0.7%	44	0.05	0
	0.1%	44	0.07	0
	0.3%	44	0.02	0
40	0.8%	46	0.02	0
	0.1%	88	0.02	0
	0.1%	48	0.07	0
	0.1%	48	0.02	0

	0.1%	50	0.02	0
	0.1%	52	0.02	0
	0.1%	50	0.02	0
	0.0%	54	0.02	0
	0.1%	46	0.02	0
	0.3%	52	0.02	0
50	0.1%	56	0.02	0
	0.1%	50	0.02	0
	0.1%	50	0.02	0
	0.1%	72	0.02	0
	0.1%	56	0.02	0
	0.1%	72	0.02	0
	0.1%	56	0.02	0
	0.1%	50	0.02	0
	0.1%	58	0.02	0
	0.0%	54	0.02	0
60	0.2%	60	0.02	0
	1.1%	56	0.04	0
	0.0%	64	0.06	0
	0.6%	62	0.02	0
	0.1%	58	0.13	0
	0.3%	72	0.02	0
	0.1%	68	0.02	0
	0.1%	66	0.02	0
	0.1%	66	0.02	0
	0.2%	72	0.02	0
70	0.4%	88	0.03	0
	0.3%	72	0.03	0
	0.2%	70	0.02	0
	0.2%	88	0.04	0
	0.1%	74	0.03	0
	0.2%	64	0.06	0
	0.4%	74	0.02	0
	0.1%	70	0.04	0

	0.2%	66	0.04	0
	0.1%	74	0.02	0
80	0.2%	88	0.03	0
	0.2%	80	0.04	0
	0.1%	74	0.05	0
	1.0%	84	0.07	0
	0.2%	88	0.04	0
	0.2%	82	0.03	0
	0.3%	98	0.04	0
	0.2%	88	0.04	0
	0.2%	84	0.04	0
	0.2%	98	0.05	0
90	0.3%	94	0.05	0
	0.5%	94	0.05	0
	0.3%	92	0.04	0
	0.2%	98	0.05	0
	0.3%	98	0.05	0
	0.3%	88	0.04	0
	0.1%	92	0.16	0
	0.6%	92	0.14	0
	0.7%	104	0.07	0
	0.3%	98	0.05	0
100	0.4%	98	0.04	0
	0.3%	106	0.04	0
	0.3%	128	0.05	0
	0.4%	110	0.06	0
	0.3%	110	0.05	0
	0.3%	114	0.05	0
	0.3%	110	0.06	0
	0.3%	128	0.08	0
	0.4%	118	0.05	0
	0.3%	128	0.05	0
110	0.1%	110	0.05	0
	0.4%	112	0.07	0

	0.3%	118	0.05	0
	0.9%	130	0.08	0
	0.3%	128	0.05	0
	0.3%	124	0.08	0
	0.3%	132	0.06	0
	0.4%	128	0.06	0
	0.4%	136	0.07	0
	0.4%	122	0.10	0
120	0.4%	128	0.06	0
	0.6%	136	0.08	0
	0.4%	274	0.07	0
	0.9%	134	0.07	0
	0.4%	136	0.06	0
	0.4%	144	0.08	0
	0.2%	140	0.07	0
	0.4%	142	0.41	0
	1.5%	138	0.06	0
	0.3%	136	0.08	0
130	1.2%	146	0.12	0
	0.4%	144	0.08	0
	0.5%	142	0.08	0
	0.4%	154	0.07	0
	0.3%	156	0.07	0
	0.8%	150	0.09	0
	0.4%	146	0.06	0
	0.4%	156	0.06	0
	0.3%	160	0.08	0
	0.4%	144	0.06	0
140	0.3%	140	0.07	0
	0.3%	158	0.09	0
	0.9%	156	0.07	0
	0.5%	154	0.07	0
	0.5%	156	0.10	0
	0.5%	156	0.09	0

	0.3%	164	0.10	0
	0.8%	160	0.08	0
	0.4%	162	0.07	0
	0.3%	166	0.07	0
150	0.2%	162	0.07	0
	0.9%	170	0.06	0
	0.5%	170	0.09	0
	0.5%	162	0.07	0
	0.4%	162	0.10	0
	0.4%	326	0.07	0
	0.4%	166	0.10	0
	0.4%	160	0.08	0
	0.4%	170	0.07	0
	0.2%	166	0.07	0
160	0.4%	164	0.12	0
	1.5%	170	0.07	0
	0.6%	166	0.16	0
	0.3%	162	0.08	0
	1.3%	172	0.08	0
	0.4%	178	0.09	0
	0.6%	202	0.07	0
	0.5%	172	0.10	0
	0.4%	186	0.09	0
	0.3%	186	0.08	0
170	0.8%	202	0.07	0
	0.7%	184	0.07	0
	0.8%	196	0.11	0
	0.8%	200	0.09	0
	0.3%	200	0.08	0
	1.2%	196	0.11	0
	0.5%	194	0.09	0
	0.5%	202	0.09	0
	0.5%	194	0.09	0
	0.6%	190	0.11	0



180	0.6%	206	0.09	0
	0.4%	204	0.10	0
	0.8%	196	0.10	0
	1.1%	192	0.14	0
	0.6%	196	0.08	0
	0.7%	398	0.12	0
	0.5%	204	0.11	0
	0.6%	198	0.09	0
	0.6%	198	0.12	0
	0.7%	198	0.13	0
190	0.7%	198	0.11	0
	0.5%	210	0.12	0
	2.3%	206	0.63	0
	2.1%	204	0.17	0
	0.9%	218	0.09	0
	0.7%	220	0.11	0
	0.5%	244	0.14	0
	1.2%	226	0.08	0
	0.5%	228	0.09	0
	1.6%	232	0.09	0
200	0.7%	228	0.22	0
	1.0%	236	0.10	0
	0.6%	234	0.11	0
	0.4%	232	0.12	0
	1.6%	244	0.14	0
	0.7%	240	0.11	0
	0.6%	234	0.12	0
	0.5%	232	0.10	0
	0.7%	242	0.09	0
	0.4%	244	0.11	0
210	0.9%	244	0.09	0
	0.5%	250	0.12	0
	1.4%	278	0.11	0
	0.6%	238	0.11	0

	0.7%	238	0.11	0
	0.6%	248	0.10	0
	2.4%	256	0.11	0
	0.8%	258	0.13	0
	0.4%	272	0.11	0
	0.7%	274	0.10	0
220	0.8%	262	0.12	0
	0.7%	278	0.09	0
	0.3%	266	0.10	0
	1.1%	276	0.27	0
	2.7%	272	0.15	0
	2.4%	268	0.29	0
	0.7%	278	0.11	0
	0.7%	272	0.11	0
	0.4%	264	0.14	0
	0.7%	284	0.12	0
230	2.4%	276	0.25	0
	0.5%	278	0.12	0
	0.9%	282	0.11	0
	0.6%	272	0.11	0
	0.4%	272	0.12	0
	1.7%	264	0.11	0
	0.7%	268	0.13	0
	0.5%	260	0.13	0
	0.9%	272	0.13	0
	0.8%	264	0.11	0
240	0.6%	280	0.11	0
	1.2%	270	0.14	0
	0.5%	306	0.11	0
	0.5%	272	0.10	0
	0.7%	280	0.10	0
	0.7%	268	0.13	0
	2.7%	274	0.13	0
	0.5%	270	0.11	0

	0.6%	266	0.11	0
	1.0%	280	0.11	0
250	0.9%	570	0.12	0
	0.6%	294	0.17	0
	0.5%	298	0.11	0
	1.3%	296	0.14	0
	0.4%	290	0.10	0
	0.5%	306	0.12	0
	2.5%	306	0.17	0
	2.9%	318	0.59	0
	0.8%	300	0.20	0
	2.7%	306	0.27	0
260	0.6%	314	0.12	0
	1.1%	312	0.15	0
	0.7%	320	0.27	0
	2.7%	326	0.13	0
	0.8%	316	0.17	0
	0.7%	320	0.14	0
	0.9%	320	0.13	0
	1.7%	316	0.15	0
	0.7%	320	0.17	0
	1.0%	314	0.14	0
270	0.8%	312	0.15	0
	0.8%	306	0.13	0
	1.3%	310	0.19	0
	1.0%	318	0.14	0
	0.8%	306	0.14	0
	1.9%	318	0.14	0
	0.5%	312	0.17	0
	1.1%	296	0.14	0
	1.1%	302	0.14	0
	1.1%	298	0.15	0
280	0.9%	912	0.13	0
	0.8%	302	0.15	0

	0.6%	310	0.13	0
	1.6%	314	0.17	0
	0.4%	310	0.13	0
	0.7%	312	0.13	0
	1.7%	304	0.28	0
	1.6%	316	0.42	0
	0.8%	314	0.14	0
	0.8%	306	0.14	0
290	1.8%	306	0.14	0
	0.9%	318	0.14	0
	0.5%	314	0.15	0
	1.9%	320	0.13	0
	1.9%	314	0.21	0

**Tabela 61:** 50 Objetos por segundo Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.5%	2	0.08	0
			0.00	

	0.0%	2		0
60	0.0%	2	0.00	0
	0.0%	2	0.05	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
		4	0.00	
	0.0%			0
	0.0%	2	0.00	0
			0.00	
70				
	0.0%	4		0
			0.00	
	0.0%	2		0
80	0.0%	2	0.00	0
	0.0%		0.00	
		2		0
	0.0%		0.00	
		2		0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
90	0.0%	2	0.00	0
	0.0%		0.00	0
		2		
	0.0%	2	0.00	0
		2	0.00	0
				0
	0.0%			
		2	0.00	
100				0
		2	0.00	
				0
	0.0%			
110			0.00	
	0.0%			0
		2		
				0
	0.0%			
		4	0.00	
				0
120				

	0.0%			
			0.00	
	0.0%	2		0
			0.00	
130				
				0
	0.0%	2		
	0.0%	2	0.00	
			0.00	
				0
				0
140				
	0.0%	2		
			0.00	
	0.0%	2		0
	0.0%		0.00	
			0.00	
150				
		2		

	0.0%			
			0.00	0
160				
170				
		4		
	0.0%	2		
			0.00	0
	0.0%	2		
	0.0%	2	0.00	0
	0.0%		0.00	0
			0.00	0
				0
180				
		2		
	0.0%			
			0.00	
				0
		2		
	0.0%			
			0.00	
				0
190				
220				



		2		
	0.0%			
			0.00	
230				0
		4		
	0.0%			
			0.00	
		2		
	0.0%	2		
			0.00	0
240	0.0%	2		
			0.00	0
	0.0%	2		
			0.00	0
250				
260				
	0.0%	2		
			0.00	0

270				
280				
	0.0%	4		
			0.00	0
290				

**Tabela 62:** 50 Objetos por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

80				
	0.0%	4	0.00	0
	0.9%			
	0.0%			
		2	0.00	
			0.00	
90			0.00	0
		6		
	0.0%			0
	0.0%		0.00	0
	0.0%		0.00	
	0.0%	2	0.00	
	0.0%	2		0
100	0.0%			0
	0.0%			0
			0.00	0
				0
	0.0%			
	0.0%			
110				

		2		
120			0.00	
			0.00	0
				0
	0.0%			
	0.0%			
130		2		
			0.00	
	0.0%			
140				
		2		
		2		
		2		
		2		

			0.00	0
			0.00	0
150			0.00	0
	0.0%			
	0.0%			
	0.0%	4		
		2		
			0.00	0
			0.00	0
160				
	0.0%	4		
	0.0%			
			0.00	0
	0.0%			
	0.0%			
170				
			0.00	0
180				
	0.0%			

	0.0%			
		2		
		2		
		2		
			0.00	0
190				
	0.0%			
200				
		2		
			0.00	0
				0
				0
		2		
	0.0%			
210			0.00	
			0.00	
			0.00	0

	0.0%			
220				
230				
		2		
			0.00	0
240				
		2		
				0
250	0.0%			
	0.0%			
		2		
			0.00	
				0
				0

260	0.0%			
		2		
			0.00	
				0
270				
			0.00	
				0
	0.0%			
280				
290				
		2		



**Tabela 63:** 50 Objetos por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.5%	2	0.09	0
	0.0%	2	0.00	0
	0.0%	24	0.00	0
	0.0%	2	0.00	0
	0.0%	24	0.00	0
	0.1%	2	0.00	0
60	0.0%	4	0.01	0
	0.0%	6	0.01	0
	0.1%	8	0.01	0
	0.0%	12	0.01	0
	0.2%	16	0.01	0
	0.2%	16	0.00	0
	0.2%	18	0.00	0
	0.0%	26	0.04	0
	0.2%	26	0.01	0
	0.1%	20	0.01	0

70	0.1%	20	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.02	0
	0.0%	24	0.01	0
	0.0%	26	0.01	0
80	0.0%	28	0.03	0
	0.1%	28	0.01	0
	0.0%	30	0.01	0
	0.3%	30	0.01	0
	0.1%	26	0.01	0
	0.1%	26	0.02	0
	0.2%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	30	0.10	0
	0.0%	28	0.03	0
90	0.0%	28	0.03	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	26	0.01	0
	0.0%	26	0.01	0
	0.4%	28	0.01	0
	0.1%	28	0.01	0
	0.1%	26	0.01	0
	0.2%	26	0.01	0
	0.2%	24	0.01	0
100	0.1%	26	0.01	0
	0.0%	26	0.02	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0

	0.1%	26	0.01	0
	0.0%	30	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	30	0.01	0
	0.1%	28	0.01	0
110	0.1%	28	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	34	0.01	0
	0.0%	34	0.02	0
	0.0%	34	0.02	0
	0.1%	30	0.07	0
120	0.1%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	36	0.01	0
	0.0%	30	0.01	0
	0.4%	30	0.01	0
	0.1%	30	0.01	0
	0.2%	36	0.01	0
	0.2%	32	0.01	0
	0.1%	36	0.01	0
	0.0%	34	0.01	0
130	0.1%	34	0.01	0
	0.2%	34	0.01	0
	0.1%	34	0.01	0
	0.0%	34	0.01	0
	0.2%	36	0.02	0
	0.1%	36	0.01	0
	0.0%	36	0.02	0
	0.0%	36	0.01	0

	0.0%	36	0.01	0
	0.1%	34	0.02	0
140	0.1%	36	0.01	0
	0.1%	36	0.01	0
	0.1%	36	0.03	0
	0.0%	34	0.02	0
	0.2%	38	0.01	0
	0.1%	34	0.01	0
	0.1%	38	0.01	0
	0.1%	40	0.02	0
	0.1%	40	0.01	0
	0.0%	38	0.01	0
150	0.1%	36	0.02	0
	0.1%	34	0.04	0
	0.3%	34	0.03	0
	0.1%	34	0.01	0
	0.1%	34	0.03	0
	0.1%	34	0.01	0
	0.0%	26	0.01	0
	0.2%	34	0.01	0
	0.1%	30	0.01	0
	0.0%	26	0.01	0
160	0.3%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	26	0.01	0
	0.5%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	26	0.01	0
	0.1%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
170	0.0%	26	0.01	0
	0.1%	26	0.01	0

	0.1%	26	0.01	0
	0.0%	34	0.01	0
	0.2%	34	0.01	0
	0.1%	26	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
180	0.0%	32	0.01	0
	0.1%	32	0.08	0
	0.1%	34	0.03	0
	0.0%	64	0.01	0
	0.2%	64	0.01	0
	0.1%	32	0.01	0
	0.1%	34	0.01	0
	0.0%	34	0.01	0
	0.1%	34	0.04	0
	0.0%	34	0.02	0
190	0.1%	36	0.03	0
	0.0%	34	0.03	0
	0.0%	34	0.02	0
	0.3%	34	0.03	0
	0.4%	34	0.01	0
	0.1%	34	0.02	0
	0.0%	34	0.02	0
	0.0%	34	0.01	0
	0.2%	34	0.03	0
	0.1%	34	0.02	0
200	0.0%	34	0.02	0
	0.0%	34	0.01	0
	0.3%	34	0.02	0
	0.3%	34	0.01	0
	0.1%	30	0.01	0
	0.4%	34	0.01	0

	0.1%	34	0.01	0
	0.1%	32	0.01	0
	0.0%	30	0.01	0
	0.1%	32	0.01	0
210	0.1%	32	0.02	0
	0.1%	32	0.01	0
	0.0%	32	0.01	0
	0.1%	32	0.03	0
	0.4%	32	0.03	0
	0.1%	60	0.01	0
	0.1%	30	0.01	0
	0.1%	30	0.01	0
	0.1%	30	0.02	0
	0.1%	30	0.01	0
220	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	36	0.01	0
	0.1%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.3%	30	0.05	0
	0.1%	36	0.01	0
	0.1%	30	0.01	0
230	0.1%	30	0.01	0
	0.0%	38	0.01	0
	0.0%	30	0.01	0
	0.2%	30	0.01	0
	0.1%	32	0.01	0
	0.1%	38	0.01	0
	0.1%	32	0.05	0
	0.0%	32	0.01	0
	0.1%	32	0.01	0
	0.0%	36	0.01	0

240	0.1%	32	0.01	0
	0.1%	38	0.01	0
	0.0%	36	0.02	0
	0.2%	36	0.01	0
	0.0%	34	0.01	0
	0.0%	36	0.02	0
	0.1%	36	0.05	0
	0.1%	38	0.02	0
	0.1%	36	0.06	0
	0.1%	72	0.05	0
250	0.0%	38	0.05	0
	0.2%	78	0.02	0
	0.0%	38	0.02	0
	0.0%	40	0.02	0
	0.2%	36	0.01	0
	0.2%	40	0.01	0
	0.5%	38	0.02	0
	0.1%	38	0.02	0
	0.0%	38	0.02	0
	0.2%	38	0.02	0
260	0.1%	38	0.02	0
	0.1%	38	0.02	0
	0.0%	36	0.02	0
	0.1%	38	0.01	0
	0.2%	38	0.02	0
	0.1%	38	0.02	0
	0.1%	34	0.02	0
	0.0%	36	0.01	0
	0.2%	36	0.02	0
	0.1%	36	0.02	0
270	0.0%	36	0.02	0
	0.1%	34	0.02	0
	0.1%	36	0.02	0
	0.0%	36	0.01	0

	0.2%	36	0.02	0
	0.0%	36	0.02	0
	0.0%	36	0.02	0
	0.2%	36	0.02	0
	0.3%	36	0.06	0
	0.2%	34	0.02	0
280	0.1%	34	0.02	0
	0.0%	36	0.03	0
	0.1%	38	0.02	0
	0.0%	36	0.01	0
	0.2%	36	0.02	0
	0.1%	108	0.02	0
	0.0%	36	0.01	0
	0.2%	34	0.02	0
	0.1%	36	0.03	0
	0.1%	34	0.02	0
290	0.0%	38	0.01	0
	0.3%	36	0.02	0
	0.1%	34	0.02	0
	0.0%	34	0.02	0
	0.2%	34	0.01	0

**Tabela 64:** 50 Objetos por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.9%	6	0.25	1200000
	6.6%	3	0.18	1200000
	1.9%	1		78200
	0.8%	1	0.30	35500
	6.6%	1	1.19	35500
			0.23	1200000
	1.8%	1	0.19	



	25.5%	1	1.19	213300
10	0.7%	1	0.40	42700
	5.9%	1	0.30	64000
	25.5%	1	0.29	213300
	1.8%	1	0.61	56900
	6.6%	1	0.63	1200000
	1.7%	1	0.77	56900
	7.5%	1	2.05	78200
	7.5%	1	2.05	1100000
	3.6%	1	1.19	1100000
	3.9%	1	0.25	71100
20	4.6%	1	0.30	64000
	1.5%	1	0.28	213300
	6.6%	1	0.39	92400
	1.4%	1	1.19	106600
	2.6%	1	0.42	106600
	2.4%	1	0.37	99500
	2.7%	1	0.59	213300
	2.5%	1	0.32	135100
	2.2%	1	0.38	128000
	2.4%	1	0.34	213300
30	1.9%	1	1.16	1200000
	25.5%	1	0.76	149300
	2.1%	1	0.59	1200000
	25.5%	1	0.42	163500
	2.4%	1	8.35	327000
	4.8%	1	0.59	213300
	10.5%	1	0.36	163500
	6.6%	1	1.19	213300
	34.6%	1	0.42	177700
	6.6%	1	1.19	163500
40	4.4%	1	0.42	213300
	2.4%	1	0.59	199100
	1.2%	2	0.42	213300

	13.4%	1	0.39	369700
	3.1%	1	0.43	192000
	2.7%	1	0.41	213300
	2.4%	1	0.57	199100
	2.7%	1	0.38	220400
	2.2%	1	0.41	192000
	2.7%	1	0.40	270200
50	2.3%	1	0.46	227500
	2.7%	1	0.57	220400
	2.7%	1	0.59	192000
	1.5%	1	0.46	213300
	2.4%	1	0.57	206200
	4.8%	1	0.59	270200
	2.4%	1	0.44	213300
	2.8%	1	0.47	270200
	2.6%	1	0.84	227500
	3.5%	1	0.57	234600
60	2.7%	1	0.53	213300
	3.1%	1	1.19	234600
	2.8%	1	0.80	220400
	1.8%	1	0.80	241700
	50.0%	1	0.51	270200
	13.9%	1	0.69	227500
	4.5%	1	0.53	248900
	1.7%	1	0.57	248800
	5.4%	1	0.82	270200
	2.7%	1	0.69	376800
70	9.9%	1	0.56	270200
	4.5%	1	0.57	270200
	5.1%	1	0.57	270200
	2.7%	1	0.60	291500
	4.0%	1	0.63	376800
	8.5%	1	0.60	284400
	3.2%	1	0.62	270200

	3.5%	1	0.69	291500
	3.6%	1	9.13	270200
	4.5%	1	1.20	305700
80	3.6%	1	0.67	277300
	4.6%	1	0.69	270200
	4.5%	1	0.75	319900
	2.5%	1	0.74	376800
	43.8%	1	0.68	305700
	17.6%	1	0.89	291500
	5.9%	1	0.89	319900
	5.9%	1	0.69	376800
	4.1%	1	0.70	312800
	4.5%	1	0.83	348400
90	4.3%	1	0.73	419500
	4.1%	1	0.74	319900
	4.8%	1	0.70	419500
	2.9%	1	0.82	376800
	8.2%	1	2.41	355500
	4.7%	1	10.73	369700
	4.9%	1	1.02	369700
	5.9%	2	0.89	383900
	4.0%	1	0.89	376800
	5.9%	1	1.06	800000
100	3.0%	1	0.81	419500
	9.9%	1	0.82	419500
	52.8%	1	0.85	376800
	5.0%	1	0.89	348400
	10.4%	1	1.07	398100
	5.7%	1	0.89	391000
	5.9%	1	0.97	419500
	4.8%	1	1.07	504800
	5.7%	1	0.94	433700
	4.9%	1	0.84	440800
110	5.3%	1	9.57	504800

	5.3%	1	0.91	455000
	5.6%	1	0.91	412300
	5.8%	1	1.07	462100
	5.7%	1	0.92	462100
	54.8%	1	0.93	447900
	18.7%	1	1.07	504800
	5.6%	1	0.93	469200
	5.7%	1	1.30	462100
	5.9%	1	1.07	455000
120	5.4%	1	0.96	504800
	5.7%	1	0.98	476300
	6.8%	1	9.95	462100
	3.7%	1	1.03	504800
	12.9%	1	1.00	483400
	7.6%	1	1.05	500000
	6.8%	1	0.98	469200
	5.5%	1	2.94	490500
	14.1%	1	1.04	500000
	6.8%	1	0.98	500000
130	5.7%	1	1.42	500000
	3.2%	1	1.00	500000
	11.2%	1	1.04	500000
	6.2%	1	0.99	500000
	14.4%	1	8.80	500000
	5.5%	1	1.03	500000
	6.8%	1	0.98	500000
	7.2%	1	0.98	500000
	6.8%	1	1.03	500000
	34.4%	1	1.00	500000
140	5.7%	1	1.08	500000
	8.2%	1	1.10	600000
	6.0%	1	1.09	600000
	4.1%	1	1.11	500000
	7.2%	1	1.05	500000

	8.2%	1	1.07	600000
	6.7%	1	1.12	600000
	6.3%	1	1.19	600000
	8.2%	1	1.11	600000
	12.1%	1	1.21	600000
150	6.7%	1	9.44	600000
	6.2%	1	1.11	600000
	6.7%	1	1.19	600000
	4.2%	1	1.12	600000
	6.7%	1	1.97	600000
	8.2%	1	2.63	600000
	8.2%	1	1.11	600000
	6.5%	1	9.41	600000
	4.7%	2	1.43	600000
	7.4%	1	1.11	600000
160	38.6%	1	1.19	600000
	6.7%	1	1.14	600000
	4.7%	1	1.14	700000
	13.8%	1	1.58	600000
	6.7%	1	1.37	600000
	7.1%	1	1.11	600000
	3.7%	1	1.24	700000
	6.2%	1	1.28	600000
	7.1%	1	1.49	600000
	24.2%	1	1.34	700000
170	8.6%	1	1.75	600000
	36.2%	1	1.28	700000
	4.7%	1	1.41	600000
	21.3%	1	1.28	600000
	7.1%	1	1.55	600000
	4.7%	1	9.37	700000
	6.6%	1	5.93	600000
	6.6%	1	2.86	600000
	7.1%	1	2.10	700000

	4.7%	1	1.27	600000
180	9.4%	1	8.29	700000
	9.4%	1	1.38	700000
	15.1%	1	1.32	700000
	7.1%	1	1.43	700000
	39.2%	1	2.48	600000
	15.2%	1	1.36	700000
	30.7%	1	9.15	700000
	30.7%	2	1.39	700000
	7.1%	1	1.56	700000
	7.2%	2	5.98	800000
190	8.3%	1	1.47	800000
	8.6%	1	1.62	700000
	9.4%	1	9.10	700000
	9.4%	1	5.98	700000
	23.9%	1	1.59	800000
	8.1%	1	1.43	700000
	19.0%	1	1.53	700000
	7.3%	1	1.62	700000
	19.0%	1	9.65	700000
	30.7%	1	1.63	700000
200	9.4%	1	9.43	700000
	30.7%	1	5.98	800000
	8.0%	1	1.56	800000
	8.8%	1	2.45	800000
	21.1%	1	9.92	800000
	21.7%	1	3.61	700000
	30.7%	1	1.65	800000
	11.8%	1	1.58	700000
	9.3%	1	9.32	900000
	32.4%	1	9.43	700000
210	19.0%	1	2.63	1500000
	19.8%	1	9.43	900000
	5.3%	1	1.74	1500000

	18.0%	1	1.66	800000
	19.0%	1	1.65	700000
	13.8%	2	9.43	800000
	8.9%	1	1.73	800000
	5.3%	1	1.72	800000
	37.5%	1	1.82	800000
	19.0%	1	8.99	1000000
220	8.8%	1	1.65	800000
	9.6%	1	1.72	800000
	37.5%	1	2.01	800000
	5.8%	1	1.89	900000
	38.8%	1	1.72	1000000
	5.3%	1	9.59	900000
	19.2%	1	1.76	800000
	9.1%	1	5.98	900000
	8.9%	1	1.81	900000
	9.9%	1	2.32	900000
230	34.6%	1	5.98	900000
	37.5%	1	3.60	900000
	5.3%	1	1.85	900000
	13.2%	1	1.83	900000
	11.9%	1	2.55	1000000
	5.3%	1	1.96	900000
	10.4%	1	1.90	900000
	54.9%	1	2.02	900000
	34.5%	1	1.96	900000
	10.5%	1	1.90	1000000
240	10.4%	1	2.03	900000
	7.5%	1	9.32	1000000
	46.9%	1	1.86	1000000
	37.2%	1	1.93	900000
	9.9%	1	1.93	1000000
	37.0%	1	3.96	1000000
	23.5%	1	9.72	2100000

	13.1%	2	1.97	1000000
	13.1%	1	2.02	1000000
	9.5%	1	2.11	1000000
250	12.7%	1	1.91	1000000
	38.0%	1	10.17	1000000
	37.2%	1	2.05	1100000
	37.2%	1	1.86	1000000
	8.6%	1	3.01	1000000
	25.4%	1	14.95	1200000
	25.4%	1	2.05	1000000
	9.9%	1	2.15	1000000
	25.4%	1	1.96	1200000
	37.2%	1	10.20	1000000
260	11.4%	3	1.90	1200000
	17.7%	1	1.96	1100000
	37.5%	1	2.83	1000000
	12.4%	1	1.99	1000000
	10.4%	1	10.16	1100000
	37.5%	1	1.93	1100000
	13.1%	1	2.05	1000000
	6.3%	1	1.92	1000000
	48.0%	1	2.05	1000000
	38.2%	1	1.96	1100000
270	11.8%	1	2.11	1000000
	25.4%	1	2.04	1000000
	42.2%	1	1.96	1000000
	25.4%	1	10.85	1100000
	25.4%	1	2.38	1100000
	25.4%	1	1.98	1000000
	9.2%	1	2.18	1200000
	50.1%	1	2.17	1100000
	23.7%	1	10.07	1000000
	13.1%	1	2.27	1200000
280	11.0%	1	2.04	1000000



	13.1%	1	17.50	1200000
	13.1%	1	3.96	1200000
	13.1%	1		1200000
	12.3%	1		1100000
	38.6%	1		2100000
	17.1%	1		1100000
	1.5%	1		2200000
	13.3%	1		1100000
	10.6%	1		1200000
290	30.4%	1		1100000
	15.9%	1		1100000
	12.6%	1		1100000
	11.2%	1		1100000
	39.9%	1		1100000

**Tabela 65:** 50 Objetos por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.4%	2	0.22	160
	1.5%	1	0.15	80
	0.6%	1	0.14	80
10				
	1.4%	1	0.21	80
	1.0%	1	0.17	80

	0.9%	1	0.16	80
20				
	1.4%	1	0.15	80
	1.0%	1	0.17	80
	0.9%	1	0.14	80
30	0.9%	1	0.22	80
	1.0%	1	0.16	80
	0.8%	1	0.15	80
	1.7%	1	0.15	80
40	0.7%	1	0.12	80
	0.7%	1	0.12	80
	0.5%	1	0.13	80
	0.7%	1	0.12	80
50				

	0.7%	1	0.12	80
	0.7%	1	0.12	80
	2.4%	1	0.14	80
60				
	1.6%	1	0.13	80
	0.7%	1	0.14	80
	1.0%	1	0.13	80
70	0.7%	1	0.13	80
	1.0%	1	0.17	80
	0.7%	1	0.16	80
80				

	0.8%	1	0.15	80
90				
	1.5%	1	0.15	80
	0.7%	1	0.12	80
	0.7%	1	0.12	80
100				
	0.4%	1	0.12	80
	0.7%	1	0.12	80
	0.7%	1	0.12	80
110				
	0.4%	1	0.12	80
	0.7%	1	0.12	80
	0.8%	1	0.14	80

	0.6%	1	0.17	80
120				
	0.7%	1	0.13	80
	0.6%	1	0.15	80
	0.7%	1	0.12	80
130				
	1.4%	1	0.14	80
	0.7%	1	0.13	80
	0.7%	1	0.12	80
140	0.5%	1	0.12	80
	0.7%	1	0.12	80
	1.5%	1	0.12	80
	0.7%	1	0.23	80
150				
	0.9%	1	0.12	80

	0.7%	1	0.12	80
	0.7%	1	0.13	80
160	0.9%	1	0.12	80
	0.7%	1	0.13	80
	0.8%	1	0.13	80
	0.8%	1	0.14	80
170				
	0.7%	1	0.12	80
	1.1%	1	0.17	80
	1.1%	1	0.32	80
	1.4%	1	0.13	80
180				
	0.5%	1	0.13	80
	0.4%	1	0.12	80

	0.7%	1	0.12	80
190				
	0.7%	1	0.12	80
	0.4%	1	0.12	80
	1.9%	1	0.15	80
200	0.8%	1	0.13	80
	0.7%	1	0.12	80
	0.4%	1	0.12	80
210				
	1.1%	1	0.17	80
	1.8%	1	0.19	80
	0.7%	1	0.12	80
220	0.7%	1	0.14	80

	1.1%	1	0.15	80
	0.8%	1	0.15	80
	0.6%	1	0.16	80
230				
	1.0%	1	0.14	80
	1.9%	1	0.15	80
	0.8%	1	0.20	80
240				
	0.7%	1	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.13	80
250				
	0.8%	1	0.12	80
	1.2%	1	0.13	80



	0.4%	1	0.14	80
260				
	1.6%	1	0.13	80
270				
290				
	1.8%	1	0.76	80
	0.0%	1	0.14	80

#### A.2.4 CEM OBJETOS POR SEGUNDO

**Tabela 66:** 100 Objetos por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.7%	52	0.37	32
	0.2%	78	0.10	0
	0.3%	82	0.05	0
	0.2%	66	0.02	0
	0.5%	66	0.03	0

	0.2%	78	0.02	0
	0.1%	52	0.02	0
	0.0%	26	0.01	0
10	0.0%	50	0.03	0
	0.3%	56	0.02	0
	0.0%	32	0.03	0
	0.1%	54	0.01	0
	0.4%	62	0.03	0
	0.2%	58	0.04	0
			0.03	
	0.3%	124		0
	0.1%	40	0.06	0
	0.0%	66	0.01	0
20	0.3%	98	0.02	0
	0.3%	60	0.05	0
	0.2%	78	0.02	0
	0.0%	78	0.05	0
	0.1%	94	0.04	0
	0.3%	66	0.03	0
	0.2%	162	0.03	0
	0.2%	90	0.03	0
	0.0%	42	0.02	0
	0.2%	112	0.05	0
30	0.2%	130	0.09	0
	0.4%	110	0.05	0
	0.2%	84	0.07	0
	0.1%	92	0.03	0
	0.4%	98	0.04	0
	0.0%	96	0.04	0
	0.2%	54	0.04	0
	0.0%	162	0.02	0
	0.2%	112	0.06	0
	0.5%	162	0.07	0
40	0.1%	84	0.05	0

	0.4%	100	0.04	0
	0.2%	294	0.05	0
	0.0%	52	0.02	0
	0.3%	92	0.04	0
	0.1%	110	0.10	0
	0.1%	98	0.04	0
	0.4%	126	0.04	0
	0.3%	124	0.07	0
	0.4%	162	0.08	0
50	0.1%	132	0.08	0
	0.3%	74	0.07	0
	0.3%	294	0.04	0
	0.1%	138	0.06	0
	0.2%	230	0.16	0
	0.3%	294	0.10	0
	0.2%	194	0.14	0
	0.2%	214	0.08	0
	0.2%	206	0.10	0
	0.6%	166	0.13	0
60	0.2%	440	0.08	0
	0.2%	178	0.08	0
	0.4%	150	0.07	0
	0.1%	112	0.36	0
	0.1%	138	0.05	0
	0.2%	354	0.07	0
	0.2%	472	0.20	0
	0.3%	440	0.17	0
	0.3%	440	0.20	0
	0.2%	406	0.19	0
70	0.4%	472	0.36	0
	0.3%	440	0.26	0
	0.2%	462	0.24	0
	0.2%	604	0.24	0
	0.2%	618	0.36	0

	0.2%	616	0.30	0
	0.2%	844	0.28	0
	0.2%	668	0.36	0
	0.2%	696	0.37	0
	0.2%	688	0.40	0
80	0.2%	720	0.41	0
	0.2%	650	0.35	0
	0.2%	844	0.37	0
	0.2%	704	0.33	0
	0.2%	662	0.36	0
	0.2%	766	0.40	0
	0.1%	704	0.36	0
	0.2%	844	0.34	0
	0.2%	818	0.45	0
	0.2%	840	0.43	0
90	0.2%	812	0.40	0
	0.2%	884	0.41	0
	0.2%	904	0.42	0
	0.2%	922	0.49	0
	0.2%	988	0.47	0
	0.2%	900	0.46	0
	0.2%	1004	0.53	0
	0.2%	982	0.45	0
	0.2%	988	0.51	0
	0.2%	998	0.50	0
100	0.2%	1070	0.55	0
	0.2%	1180	0.45	0
	0.2%	996	0.59	0
	0.1%	988	0.51	0
	0.1%	864	0.51	0
	0.1%	848	0.43	0
	0.2%	1052	0.45	0
	0.1%	1002	0.62	0
	0.2%	1034	0.50	0

	0.1%	1078	0.50	0
110	0.2%	964	0.54	0
	0.1%	1132	0.54	0
	0.1%	964	0.60	0
	0.2%	1180	0.52	0
	0.2%	1212	0.62	0
	0.2%	1180	0.52	0
	0.1%	1056	0.56	0
	0.2%	1220	0.50	0
	0.2%	1180	0.61	0
	0.1%	964	0.68	0
120	0.1%	1026	0.51	0
	0.1%	1002	0.51	0
	0.1%	898	0.52	0
	0.1%	1060	0.42	0
	0.1%	1060	0.51	0
	0.2%	1138	0.53	0
	0.1%	1014	0.61	0
	0.2%	1352	0.51	0
	0.1%	1262	0.65	0
	0.1%	1352	0.62	0
130	0.1%	1172	0.68	0
	0.1%	1168	0.57	0
	0.2%	1250	0.68	0
	0.2%	1408	0.62	0
	0.1%	1144	0.80	0
	0.2%	1352	0.66	0
	0.1%	1308	0.77	0
	0.1%	1218	0.68	0
	0.2%	1640	0.68	0
	0.1%	1436	0.83	0
140	0.2%	1624	0.73	0
	0.2%	1174	0.85	0
	0.2%	1558	0.78	0

	0.1%	1610	0.89	0
	0.2%	1430	0.55	0
	0.1%	1174	0.70	0
	0.2%	1498	0.74	0
	0.2%	1516	0.73	0
	0.1%	1330	0.55	0
	0.1%	1418	0.62	0
150	0.2%	1390	0.71	0
	0.1%	1174	0.70	0
	0.1%	1092	0.57	0
	0.1%	1110	0.55	0
	0.1%	1116	0.55	0
	0.1%	1310	0.56	0
	0.2%	1256	0.94	0
	0.1%	1126	0.64	0
	0.1%	1188	0.71	0
	0.1%	1100	0.56	0
160	0.1%	1260	0.58	0
	0.1%	1174	0.60	0
	0.1%	1252	0.58	0
	0.1%	1126	0.70	0
	0.1%	1188	0.64	0
	0.1%	1124	0.55	0
	0.1%	1096	0.58	0
	0.1%	1126	0.56	0
	0.1%	1112	0.62	0
	0.1%	1150	0.52	0
170	0.1%	1114	0.58	0
	0.1%	1328	0.53	0
	0.1%	1568	0.68	0
	0.1%	1218	0.56	0
	0.1%	1336	0.66	0
	0.1%	1370	0.71	0
	0.1%	1380	0.73	0

	0.1%	1324	0.69	0
	0.1%	1384	0.67	0
	0.1%	1568	0.68	0
180	0.1%	1258	0.68	0
	0.1%	1432	0.72	0
	0.1%	1330	0.71	0
	0.1%	1568	0.73	0
	0.1%	1444	0.76	0
	0.2%	1320	0.72	0
	0.1%	1368	0.71	0
	0.1%	1786	0.73	0
	0.1%	1338	0.66	0
	0.1%	1370	0.72	0
190	0.1%	1512	0.91	0
	0.1%	1564	0.75	0
	0.1%	1588	0.81	0
	0.1%	1448	0.82	0
	0.2%	1876	0.71	0
	0.2%	1820	0.97	0
	0.2%	1972	0.99	0
	0.2%	1786	0.94	0
	0.2%	1858	0.86	0
	0.2%	1786	0.94	0
200	0.1%	1846	0.91	0
	0.1%	1914	0.95	0
	0.2%	1274	0.91	0
	0.2%	1998	1.03	0
	0.2%	1764	0.90	0
	0.1%	1438	0.63	0
	0.1%	1484	0.81	0
	0.1%	1538	0.71	0
	0.1%	1384	0.78	0
	0.1%	1622	0.71	0
210	0.1%	1336	0.86	0

	0.1%	1452	0.66	0
	0.1%	1492	0.75	0
	0.1%	1274	0.75	0
	0.1%	1450	0.72	0
	0.1%	1274	0.61	0
	0.1%	1308	0.64	0
	0.1%	1312	0.63	0
	0.1%	1264	0.63	0
	0.1%	1494	0.69	0
220	0.1%	1400	0.74	0
	0.1%	1446	0.67	0
	0.1%	1590	0.72	0
	0.1%	1704	0.84	0
	0.1%	1538	0.80	0

**Tabela 67:** 100 Objetos por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.5%	30	0.28	0
	0.4%	34	0.02	0
	0.1%	18	0.00	0
	0.4%	62	0.01	0
	0.1%	62	0.01	0
	0.2%	18	0.03	0
	0.0%	28	0.03	0
	0.0%	30	0.01	0
10	0.0%	34	0.01	0
	0.0%	16	0.00	0
	0.1%	32	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.1%	56	0.02	0



	0.1%			0
		14	0.00	
	0.0%	52	0.01	0
	0.1%	32	0.07	0
20	0.0%	138	0.03	0
	0.4%	72	0.05	0
	0.4%	62	0.06	0
	0.3%	62	0.03	0
	0.1%	146	0.03	0
	0.1%	80	0.02	0
	0.1%	146	0.03	0
	0.5%	70	0.03	0
	0.2%	66	0.03	0
	0.1%	106	0.08	0
30	0.0%	82	0.04	0
	0.2%	52	0.03	0
	0.1%	64	0.02	0
	0.2%	52	0.03	0
	0.3%	72	0.03	0
	0.1%	74	0.04	0
	0.1%	72	0.07	0
	0.3%	146	0.03	0
	0.1%	120	0.02	0
	0.1%	146	0.03	0
40	0.3%	56	0.02	0
	0.5%	300	0.03	0
	0.0%	64	0.11	0
	0.1%	70	0.02	0
	0.2%	300	0.02	0
	0.0%	58	0.11	0
	0.1%	72	0.02	0
	0.1%	146	0.11	0
	0.0%	52	0.03	0
	0.1%	218	0.04	0

50	0.4%	72	0.16	0
	0.1%	94	0.11	0
	0.6%	300	0.14	0
	0.0%	68	0.05	0
	0.1%	296	0.11	0
	0.3%	300	0.08	0
	0.0%	124	0.07	0
	0.2%	232	0.06	0
	0.3%	422	0.30	0
	0.1%	128	0.04	0
60	0.2%	120	0.04	0
	0.3%	88	0.09	0
	0.3%	422	0.30	0
	0.2%	96	0.18	0
	0.2%	192	0.22	0
	0.2%	256	0.20	0
	0.2%	354	0.20	0
	0.1%	420	0.30	0
	0.1%	422	0.24	0
	0.2%	414	0.30	0
70	0.2%	364	0.28	0
	0.2%	422	0.27	0
	0.3%	422	0.32	0
	0.3%	512	0.25	0
	0.2%	560	0.42	0
	0.2%	726	0.30	0
	0.3%	614	0.36	0
	0.2%	516	0.26	0
	0.2%	654	0.42	0
	0.2%	726	0.32	0
80	0.2%	710	0.42	0
	0.2%	592	0.34	0
	0.2%	726	0.34	0
	0.2%	544	0.37	0

	0.2%	596	0.42	0
	0.2%	688	0.39	0
	0.2%	618	0.41	0
	0.2%	726	0.35	0
	0.2%	702	0.45	0
	0.1%	818	0.43	0
90	0.1%	798	0.42	0
	0.2%	838	0.45	0
	0.2%	846	0.44	0
	0.2%	820	0.46	0
	0.2%	794	0.42	0
	0.2%	856	0.51	0
	0.2%	838	0.56	0
	0.2%	846	0.42	0
	0.1%	866	0.56	0
	0.2%	1158	0.44	0
100	0.2%	846	0.42	0
	0.2%	1078	0.51	0
	0.1%	1166	0.52	0
	0.2%	1048	0.47	0
	0.1%	846	0.50	0
	0.1%	814	0.56	0
	0.2%	884	0.57	0
	0.2%	976	0.51	0
	0.2%	934	0.65	0
	0.2%	886	0.51	0
110	0.1%	1012	0.62	0
	0.1%	886	0.61	0
	0.1%	1138	0.64	0
	0.1%	1246	0.48	0
	0.2%	1196	0.51	0
	0.2%	1018	0.53	0
	0.1%	1240	0.51	0
	0.1%	886	0.43	0

	0.2%	1122	0.50	0
	0.1%	886	0.48	0
120	0.2%	840	0.73	0
	0.2%	990	0.73	0
	0.2%	980	0.51	0
	0.2%	1024	0.51	0
	0.1%	1150	0.63	0
	0.2%	1058	0.58	0
	0.2%	1526	0.60	0
	0.1%	1198	0.62	0
	0.1%	1526	0.74	0
	0.1%	1212	0.73	0
130	0.1%	1298	0.73	0
	0.1%	1432	0.62	0
	0.1%	1584	0.74	0
	0.1%	1150	0.64	0
	0.1%	1584	0.78	0
	0.1%	1266	0.75	0
	0.1%	1242	0.74	0
	0.1%	1526	0.84	0
	0.2%	1526	0.75	0
	0.1%	1430	0.83	0
140	0.2%	1526	0.84	0
	0.1%	1548	0.89	0
	0.2%	1584	0.74	0
	0.1%	1598	0.71	0
	0.2%	1362	0.75	0
	0.2%	1584	0.65	0
	0.2%	1524	0.72	0
	0.2%	1362	0.75	0
	0.1%	1390	0.60	0
	0.2%	1272	0.53	0
150	0.1%	1340	0.58	0
	0.1%	1400	0.70	0

	0.2%	1454	0.59	0
	0.1%	1272	0.58	0
	0.1%	990	0.64	0
	0.1%	1362	0.54	0
	0.1%	1116	0.61	0
	0.1%	1362	0.66	0
	0.1%	1144	0.66	0
	0.1%	1272	0.58	0
160	0.1%	1268	0.61	0
	0.1%	1254	0.59	0
	0.1%	1054	0.60	0
	0.1%	1204	0.51	0
	0.1%	1272	0.74	0
	0.1%	1246	0.58	0
	0.1%	1268	0.55	0
	0.1%	1106	0.54	0
	0.1%	1102	0.68	0
	0.1%	1222	0.70	0
170	0.1%	1046	0.74	0
	0.1%	1268	0.76	0
	0.1%	1066	0.62	0
	0.1%	1112	0.64	0
	0.1%	1074	0.94	0
	0.1%	1460	0.68	0
	0.1%	1264	0.74	0
	0.2%	1268	0.68	0
	0.1%	1528	0.56	0
	0.1%	1260	0.69	0
180	0.1%	1310	0.75	0
	0.1%	1314	0.80	0
	0.1%	1460	0.94	0
	0.2%	1292	0.74	0
	0.1%	1178	0.71	0
	0.1%	1386	0.94	0

	0.1%	1460	0.65	0
	0.1%	1423	0.70	0
	0.1%	1478	0.78	0
	0.1%	1646	0.73	0
190	0.2%	1168	0.74	0
	0.1%	1112	0.67	0
	0.1%	1322	0.99	0
	0.1%	1460	0.91	0
	0.2%	1476	0.94	0
	0.1%	1524	0.88	0
	0.1%	1380	1.02	0
	0.1%	1646	1.04	0
	0.2%	1858	0.78	0
	0.1%	1710	0.96	0
200	0.2%	1926	0.93	0
	0.2%	1646	0.78	0
	0.2%	1820	0.94	0
	0.2%	2064	0.71	0
	0.2%	1680	0.84	0
	0.2%	1930	0.70	0
	0.2%	1812	0.82	0
	0.1%	1838	0.76	0
	0.1%	1816	0.72	0
	0.1%	1472	0.85	0
210	0.1%	1386	0.75	0
	0.1%	1646	0.78	0
	0.1%	1552	0.80	0
	0.1%	1424	0.69	0
	0.1%	1680	0.71	0
	0.1%	1596	0.67	0
	0.1%	1680	0.71	0
	0.1%	1542	0.67	0
	0.2%	1528	0.63	0
	0.1%	1536	0.69	0

220	0.1%	1284	0.83	0
	0.1%	1264	0.88	0
	0.1%	1336	0.88	0
	0.1%	1356	0.81	0
	0.1%	1382	0.86	0

**Tabela 68:** 100 Objetos por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.2%	158	0.13	0
	0.8%	178	0.06	0
	3.0%	114	0.08	0
	3.0%	396	0.10	0
	0.8%	396	0.18	0
	1.7%	114	0.10	0
	0.4%	152	0.18	0
	0.9%	200	0.11	0
10	0.5%	218	0.18	0
	0.6%	1146	0.28	0
	0.6%	228	0.18	0
	1.7%	278	0.16	0
	0.6%	284	0.34	0
	1.8%	314		
	1.7%	728	0.17	0
			0.29	0
	0.9%	364	0.25	0
	1.6%	436	0.46	0
20	0.7%	444	0.18	0
	3.0%	398	0.21	0
	3.0%	396	0.50	0
	1.6%	396	0.18	0
	0.9%	872	0.18	0

	0.7%	1146	0.17	0
	0.9%	374	0.28	0
	4.1%	1146	0.75	0
	1.1%	370	0.28	0
	1.0%	394	0.43	0
30	0.5%	784	0.22	0
	0.9%	832	0.21	0
	2.0%	3210	0.32	0
	1.8%	438	0.85	0
	1.2%	484	0.34	0
	2.1%	516	0.27	0
	1.2%	534	0.25	0
	2.7%	552	0.27	0
	0.9%	578	0.58	0
	0.9%	1146	0.28	0
40	2.5%	1146	0.32	0
	4.0%	578	0.28	0
	0.9%	590	0.30	0
	1.4%	3210	0.32	0
	2.5%	630	0.85	0
	0.9%	660	0.33	0
	1.8%	654	0.85	0
	1.1%	3210	0.77	0
	1.1%	724	0.34	0
	1.1%	1518	0.75	0
50	3.2%	750	0.40	0
	4.6%	5448	0.38	0
	4.2%	746	5.04	0
	0.9%	784	0.38	0
	1.8%	3210	1.44	0
	2.7%	790	0.85	0
	0.9%	3210	1.62	0
	1.9%	1678	0.79	0
	4.0%	1682	0.85	0



	2.4%	1744	1.01	0
60	3.2%	5448	0.97	0
	2.4%	1882	0.96	0
	4.7%	1930	5.04	0
	3.0%	976	0.49	0
	3.4%	1030	2.47	0
	3.2%	5448	5.04	0
	2.6%	2072	2.20	0
	2.1%	4362	2.87	0
	3.1%	4626	2.45	0
	3.2%	5984	5.04	0
70	3.8%	5448	2.62	0
	3.9%	4930	7.23	0
	3.2%	5070	5.04	0
	4.0%	14452	3.71	0
	3.6%	5448	4.43	0
	3.3%	7090	4.45	0
	3.6%	8782	4.81	0
	3.8%	7458	7.23	0
	3.5%	9190	5.59	0
	3.6%	14452	6.70	0
80	3.9%	9634	5.86	0
	3.6%	9950	7.23	0
	3.8%	11196	6.32	0
	3.6%	14452	7.23	0
	3.8%	11714	6.40	0
	3.7%	14452	7.03	0
	4.2%	12358	7.65	0
	3.7%	13026	7.42	0
	3.8%	13912	7.23	0
	4.2%	14452	7.42	0
90	4.3%	14954	9.84	0
	4.1%	20252	7.63	0
	4.2%	15420	8.93	0

	4.2%	15564	8.55	0
	4.2%	15668	9.84	0
	3.8%	16140	9.14	0
	4.2%	20252	10.01	0
	4.2%	17050	9.84	0
	3.6%	17730	9.44	0
	4.0%	18162	9.42	0
100	4.2%	19258	9.79	0
	4.0%	20252	9.84	0
	4.2%	20258	9.84	0
	3.9%	20394	11.67	0
	3.7%	20252	10.56	0
	3.4%	20076	10.65	0
	3.8%	19850	11.34	0
	4.1%	19968	12.02	0
	4.0%	20252	11.10	0
	4.2%	20732	12.02	0
110	4.1%	20922	11.90	0
	3.6%	21416	12.02	0
	3.9%	22362	11.04	0
	4.1%	24398	11.26	0
	3.7%	22774	11.15	0
	3.9%	24398	12.78	0
	3.9%	22968	11.35	0
	4.1%	24398	11.57	0
	4.1%	23676	12.02	0
	4.1%	23632	12.02	0
120	4.5%	23650	11.83	0
	4.4%	23640	11.73	0
	4.4%	23620	12.85	0
	4.4%	24398	13.57	0
	3.8%	24398	14.91	0
	3.8%	24758	13.21	0
	4.1%	25340	14.98	0

	3.9%	25672	15.14	0
	4.2%	25972	14.98	0
	3.8%	26476	13.31	0
130	4.4%	27002	14.98	0
	4.4%	27472	14.84	0
	3.9%	27954	14.12	0
	3.6%	28260	13.90	0
	4.4%	28186	14.40	0
	4.3%	28554	14.98	0
	3.8%	28160	14.98	0
	4.2%	28770	14.98	0
	3.7%	29546	14.52	0
	3.8%	29634	16.11	0
140	4.2%	29968	14.69	0
	3.5%	30818	15.37	0
	3.8%	30024	14.02	0
	4.0%	30098	14.24	0
	4.1%	30818	15.37	0
	4.2%	30256	14.67	0
	4.0%	30818	14.27	0
	3.8%	29344	14.40	0
	3.7%	29576	15.49	0
	3.8%	30304	15.37	0
150	3.8%	30818	15.37	0
	4.0%	30528	16.00	0
	4.1%	30062	15.96	0
	4.2%	30818	15.37	0
	3.9%	32818	15.50	0
	4.1%	31654	15.08	0
	3.9%	31258	16.32	0
	3.8%	31532	15.91	0
	4.3%	31706	12.48	0
	4.1%	32818	15.50	0
160	4.1%	31894	14.67	0

	4.1%	31940	15.79	0
	4.0%	31728	15.58	0
	3.5%	31592	15.37	0
	4.0%	31950	15.50	0
	4.3%	32818	15.34	0
	4.1%	32818	15.50	0
	4.1%	26668	15.84	0
	4.0%	32084	15.87	0
	3.9%	32108	18.09	0
170	4.3%	32552	15.12	0
	3.9%	32818	16.12	0
	3.9%	32952	15.50	0
	3.7%	32946	15.93	0
	4.2%	33092	15.70	0
	4.1%	32780	16.53	0
	4.3%	32916	18.09	0
	4.0%	33068	16.02	0
	3.8%	33546	17.70	0
	4.3%	34426	20.81	0
180	3.8%	34504	16.12	0
	3.7%	34468	18.09	0
	3.9%	33894	16.04	0
	4.3%	34434	16.71	0
	3.8%	36174	19.20	0
	3.8%	36740	17.24	0
	4.2%	36980	18.09	0
	4.4%	37484	17.39	0
	4.2%	37754	17.90	0
	4.1%	38054	20.81	0
190	3.9%	37922	18.09	0
	3.8%	38476	17.78	0
	3.8%	38368	20.81	0
	4.3%	38876	20.12	0
	4.0%	38650	18.16	0

	3.8%	36840	19.20	0
	3.7%	37382	17.92	0
	3.9%	37912	18.20	0
	3.8%	37894	18.22	0
	4.2%	37616	19.20	0
200	3.8%	38300	18.89	0
	4.7%	38434	17.71	0
	4.3%	38368	17.14	0
	3.5%	38040	20.81	0
	4.0%	37556	17.59	0
	3.7%	37056	18.26	0
	4.1%	36876	20.81	0
	4.3%	36922	18.02	0
	4.1%	37616	18.51	0
	4.4%	37056	17.92	0
210	3.8%	36772	19.20	0
	4.0%	36898	18.32	0
	4.0%	37616	18.34	0
	4.3%	37364	17.92	0
	3.8%	37400	19.20	0
	3.8%	36944	18.63	0
	3.6%	36380	19.06	0
	3.8%	36350	17.14	0
	3.9%	36956	17.80	0
	4.2%	36592	17.14	0
220	4.2%	37066	17.33	0
	4.4%	36732	17.50	0
	4.4%	36556	17.83	0
	3.6%	37056	18.71	0
	4.2%	37056	17.88	0

**Tabela 69:** 100 Objetos por segundo Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.5%		0.08	
40				
		2		0
	0.0%	2	0.00	0
	0.0%	6	0.00	
	0.0%	4		
	0.0%	4		0
	0.0%	6		0
	0.0%		0.01	0

50	0.0%		0.00	
	0.0%	2	0.01	0
			0.00	0
		22	0.00	0
	0.0%	4	0.00	0
		6	0.00	0
	0.0%	4	0.00	0
	0.0%	4		
	0.0%	2	0.00	0
			0.00	0
60	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	10		0
			0.00	0
	0.0%	2	0.01	
	0.0%	2	0.00	0
	0.0%			0
		6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	
70	0.0%	4	0.00	0
	0.0%			0
	0.0%	8	0.00	0
		4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
80	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	

		2	0.00	0
	0.0%	4		0
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
90	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4		
	0.0%	2	0.00	0
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		
	0.0%		0.01	0
100	0.0%	8	0.00	0
		2	0.00	
	0.0%			0
	0.0%	2	0.00	0
		6		
	0.0%		0.00	0
		12	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.01	0
110	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%		0.00	0
	0.0%	6	0.00	
		12		0
	0.0%	2	0.00	
	0.0%		0.00	0
		4		0



	0.0%	8	0.00	0
	0.0%	4	0.00	0
120	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	
				0
	0.0%	2	0.00	0
	0.0%			0
	0.0%	6	0.00	
		12	0.00	0
	0.0%	8	0.01	0
130	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	4		0
	0.0%	16	0.00	
		2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8		0
	0.0%		0.00	0
140	0.0%	6	0.00	0
	0.0%	8	0.00	0
		8	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
150	0.0%	6	0.00	0
	0.0%	10		0

	0.0%		0.00	0
	0.0%	6	0.00	0
		8	0.00	0
	0.0%	10	0.00	
	0.0%	14	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%	10	0.00	0
160		16	0.00	
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	4		0
	0.0%		0.00	0
	0.0%	4		0
			0.00	0
	0.0%	6	0.01	
		8	0.00	0
	0.0%	6	0.00	
170	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
180	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	2		0
	0.0%		0.00	0
	0.0%	4	0.00	0

		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
190	0.0%	6		
	0.0%			0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	
		10	0.00	
			0.00	0
	0.0%			0
200	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4		0
		4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
		6	0.00	
210	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%		0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	20	0.01	0
	0.0%	6	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

220	0.0%		0.00	0
	0.0%		0.01	0
	0.0%		0.00	0
	0.0%		0.01	0
	0.0%			0

**Tabela 70:** 100 Objetos por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.0%	4	0.11	0
	0.0%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4		
60			0.01	0
	0.0%	4	0.01	0
	0.0%	4	0.01	0

	0.0%	8	0.00	0
	0.0%	2	0.01	0
	0.0%	4		
			0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	6		0
70				
			0.00	
	0.0%	6	0.00	0
	0.0%	4		0
	0.0%	4	0.01	0
		2	0.00	
	0.0%			0
	0.0%	4	0.00	
				0
	0.0%	6	0.00	0
80			0.01	
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	4		0
	0.0%	6		
			0.01	
				0
	0.0%	6	0.00	
				0
	0.0%	2	0.00	
90			0.00	0
	0.0%	2		
	0.0%	2	0.00	0
	0.0%	2	0.00	0
			0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
100	0.0%	2	0.00	0
		2	0.00	0
	0.0%	2		0
	0.0%	2	0.00	
	0.0%	6	0.00	0
	0.0%	2	0.00	0
		2	0.00	0
	0.0%	2	0.00	0
	0.0%		0.01	0
	0.0%	2	0.01	0
110	0.0%	4	0.01	0
	0.0%	4	0.01	
	0.0%	8	0.00	0
	0.0%	2		0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%		0.01	0
		2	0.00	0
120	0.0%	4	0.01	0
		6	0.00	0
	0.0%	2	0.01	0
	0.0%	10	0.01	0
	0.0%	8	0.01	0
	0.0%	6	0.00	
	0.0%	6	0.01	0
	0.0%	4		
	0.0%		0.01	0
	0.0%		0.01	0
130	0.0%	6		0

	0.0%	8	0.01	0
	0.0%	14	0.00	0
	0.0%	10	0.03	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%		0.00	0
140		4	0.00	0
	0.0%	8	0.01	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6		0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
150	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	2	0.00	0
	0.0%		0.00	0
	0.0%		0.00	
	0.0%	8	0.00	
	0.0%	4	0.00	0
		8	0.00	0
160		26		0
	0.0%	8		0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0

	0.0%	6	0.00	0
	0.0%		0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	8		0
170	0.0%	6	0.01	0
	0.0%	10	0.00	0
	0.0%		0.00	0
	0.0%	6	0.00	
	0.0%	6	0.00	0
		4	0.00	0
	0.0%	8	0.00	0
	0.0%	2		0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
180		10	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	6	0.00	
	0.0%	2		0
	0.0%		0.00	0
	0.0%	8		
	0.0%		0.00	0
190	0.0%	2	0.00	0
		8	0.00	0
	0.0%	6	0.01	0
		4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0



	0.0%	8	0.00	0
200	0.0%	2	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	
	0.0%	10	0.00	0
	0.0%	4	0.00	0
210	0.0%	2		0
	0.0%	6	0.00	0
	0.0%	4	0.01	0
	0.0%	4	0.00	0
		16	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	
	0.0%		0.00	0
	0.0%	4		0
	0.0%	2	0.00	0
220		8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0

**Tabela 71:** 100 Objetos por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40	0.0%	2	0.29	0
	0.0%	590	0.29	0
	0.0%	2	0.00	0
	0.0%	590	0.00	0
	0.1%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	14	0.29	0
	0.0%	566	0.29	0
	0.0%	566	0.29	0
	0.0%	12	0.29	0
50	0.0%	42	0.01	0
	0.0%	68	0.04	0
	0.0%	72	0.04	0
	0.1%	82	0.07	0
	0.0%	84	0.04	0
	0.1%	42	0.05	0
	0.2%	426	0.05	0
	0.0%	92	0.29	0
	0.0%	214	0.29	0
	0.2%	426	0.02	0
60	0.1%	230	0.02	0
	0.1%	182	0.27	0
	0.1%	186	0.12	0
	0.0%	196	0.12	0
	0.1%	192	0.10	0
	0.1%	254	0.27	0

	0.1%	298	0.12	0
	0.1%	250	0.12	0
	0.1%	426	0.20	0
	0.0%	310	0.27	0
70	0.0%	426	0.19	0
	0.1%	316	0.18	0
	0.1%	352	0.29	0
	0.1%	538	0.27	0
	0.1%	370	0.21	0
	0.0%	354	0.22	0
	0.1%	426	0.23	0
	0.0%	348	0.27	0
	0.1%	538	0.25	0
	0.1%	350	0.27	0
80	0.1%	426	0.19	0
	0.1%	426	0.22	0
	0.1%	386	0.27	0
	0.0%	414	0.27	0
	0.1%	426	0.21	0
	0.1%	538	0.27	0
	0.1%	428	0.22	0
	0.1%	452	0.27	0
	0.0%	446	0.23	0
	0.1%	420	0.27	0
90	0.1%	538	0.23	0
	0.1%	476	0.26	0
	0.1%	488	0.28	0
	0.1%	510	0.30	0
	0.1%	538	0.27	0
	0.1%	494	0.27	0
	0.0%	486	0.27	0
	0.1%	538	0.28	0
	0.1%	500	0.27	0
	0.0%	538	0.28	0

100	0.0%	604	0.27	0
	0.1%	538	0.29	0
	0.0%	540	0.27	0
	0.1%	554	0.30	0
	0.1%	604	0.28	0
	0.0%	564	0.28	0
	0.1%	604	0.36	0
	0.0%	554	0.28	0
	0.1%	580	0.28	0
	0.1%	570	0.30	0
110	0.0%	604	0.31	0
	0.0%	604	0.28	0
	0.1%	604	0.30	0
	0.1%	554	0.28	0
	0.1%	528	0.28	0
	0.1%	550	0.36	0
	0.1%	590	0.25	0
	0.1%	604	0.36	0
	0.1%	604	0.32	0
	0.1%	582	0.29	0
120	0.0%	588	0.36	0
	0.0%	576	0.36	0
	0.0%	572	0.25	0
	0.0%	568	0.31	0
	0.0%	588	0.36	0
	0.1%	614	0.30	0
	0.0%	588	0.25	0
	0.1%	558	0.25	0
	0.0%	588	0.33	0
	0.1%	588	0.36	0
130	0.0%	526	0.25	0
	0.0%	528	0.31	0
	0.0%	588	0.36	0
	0.0%	588	0.25	0

	0.0%	574	0.31	0
	0.0%	588	0.25	0
	0.0%	590	0.32	0
	0.0%	726	0.30	0
	0.0%	726	0.25	0
	0.0%	596	0.25	0
140	0.0%	726	0.32	0
	0.0%	726	0.32	0
	0.0%	608	0.32	0
	0.0%	646	0.35	0
	0.0%	726	0.32	0
	0.1%	644	0.33	0
	0.0%	690	0.35	0
	0.0%	726	0.32	0
	0.0%	762	0.30	0
	0.1%	726	0.35	0
150	0.0%	726	0.29	0
	0.0%	580	0.32	0
	0.0%	746	0.32	0
	0.0%	704	0.35	0
	0.0%	682	0.32	0
	0.1%	634	0.32	0
	0.0%	682	0.35	0
	0.0%	672	0.28	0
	0.0%	676	0.35	0
	0.0%	674	0.30	0
160	0.0%	668	0.27	0
	0.0%	634	0.35	0
	0.0%	634	0.31	0
	0.0%	620	0.35	0
	0.0%	634	0.33	0
	0.0%	644	0.32	0
	0.0%	634	0.41	0
	0.0%	658	0.37	0

	0.0%	650	0.36	0
	0.0%	630	0.34	0
170	0.0%	634	0.39	0
	0.0%	652	0.38	0
	0.0%	664	0.32	0
	0.0%	634	0.32	0
	0.0%	644	0.29	0
	0.0%	634	0.30	0
	0.0%	636	0.33	0
	0.0%	616	0.49	0
	0.0%	610	0.31	0
	0.0%	604	0.40	0
180	0.0%	592	0.33	0
	0.0%	570	0.37	0
	0.0%	560	0.31	0
	0.0%	568	0.30	0
	0.0%	576	0.37	0
	0.0%	582	0.31	0
	0.0%	580	0.29	0
	0.0%	566	0.29	0
	0.0%	566	0.33	0
	0.0%	574	0.30	0
190	0.0%	548	0.37	0
	0.0%	526	0.30	0
	0.0%	546	0.31	0
	0.0%	562	0.31	0
	0.0%	552	0.30	0
	0.0%	566	0.31	0
	0.0%	590	0.30	0
	0.0%	590	0.33	0
	0.0%	568	0.29	0
	0.0%	568	0.29	0
200	0.0%	580	0.28	0
	0.0%	562	0.29	0

	0.0%	574	0.29	0
	0.0%	598	0.32	0
	0.0%	590	0.27	0
	0.0%	576	0.29	0
	0.0%	566	0.29	0
	0.0%	590	0.29	0
	0.0%	700	0.38	0
	0.0%	688	0.28	0
210	0.0%	682	0.29	0
	0.0%	674	0.29	0
	0.0%	660	0.29	0
	0.0%	600	0.29	0
	0.0%	582	0.27	0
	0.0%	574	0.32	0
	0.0%	END	0.30	0
	0.0%		0.31	0
	0.0%		0.36	0
			0.27	0
220			0.27	0
			0.34	0
			0.31	0
			0.31	0
			0.37	0

**Tabela 72:** 100 Objetos por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	5.4%	6	2.81	500000
	50.9%	3	18.20	900000
	24.1%	2	2.12	1000000
	7.0%	1	0.97	700000
	7.3%	1	1.23	900000

	7.9%	1	1.36	1000000
	8.1%	1	1.35	1000000
	5.4%	1	1.47	1000000
10	26.2%	1	2.66	1200000
	7.6%	1	1.64	1200000
	50.8%	1	14.19	1300000
	22.8%	1	2.08	1400000
	20.2%	2	3.93	2900000
	13.3%	1	2.44	1700000
	17.8%	1	3.13	1800000
	30.4%	1	10.64	1900000
	36.2%	2	5.60	4000000
20	22.0%	1	2.44	1800000
	49.3%	1	14.36	1900000
	47.4%	2	5.83	3700000
	17.5%	1	2.80	1800000
	16.0%	1	2.54	1800000
	30.0%	1	11.44	1700000
	21.0%	2	7.87	3500000
	25.6%	2	5.92	3600000
	63.2%	1	11.61	2100000
	27.2%	1	3.12	2200000
30	21.9%	1	3.39	2300000
	48.1%	1	13.10	2400000
	33.9%	1	3.49	2500000
	19.8%	1	3.72	2600000
	11.3%	1	3.42	2500000
	62.5%	2	15.79	4900000
	54.9%	2	7.88	5000000
	58.6%	1	13.06	2500000
	38.5%	1	4.29	2700000
	27.4%	1	4.43	2800000
40	51.0%	1	14.19	2700000



	37.1%	1	4.09	2800000
	13.5%	1	4.03	3000000
	47.2%	1	14.92	3100000
	58.0%	2	9.53	6200000
	67.9%	1	16.38	3200000
	58.2%	2	10.30	6700000
	63.7%	1	14.19	3300000
	35.9%	1	5.03	3300000
	13.6%	1	5.76	3500000
50	55.5%	3	41.73	10100000
	77.3%	4	30.78	13200000
	65.7%	2	21.23	6900000
	65.1%	2	22.52	7400000
	65.0%	2	13.92	7300000
	76.0%	2	24.41	7600000
	72.7%	2	20.51	7700000
	36.7%	1	6.51	4200000
	47.4%	1	15.29	4300000
	49.2%	2	26.57	8300000.000000001
60	65.4%	4	52.23	17300000
	65.9%	4	52.12	18700000
	84.3%	5	56.68	23900000
	87.0%	4	50.77	20100000
	67.7%	4	51.48	20300000
	80.9%	4	52.87	21200000
	86.2%	4	64.79	21900000
	72.4%	5	77.04	27700000
	66.6%	6	91.05	34400000
	76.0%	5	80.31	29600000
70	77.8%	6	94.65	35700000
	83.8%	6	95.07	37700000
	75.6%	6	102.74	38600000
	73.1%	6	106.39	42000000
	81.7%	6	118.61	43500000

	82.1%	6	123.00	44300000
	81.4%	6	127.43	45000000
	75.6%	6	116.41	47200000
	86.6%	6	144.61	49600000
	79.4%	6	131.15	51700000
80	72.0%	6	129.92	52900000
	83.3%	6	146.31	55600000
	81.5%	6	147.04	57200000
	81.1%	6	145.61	59300000
	87.9%	6	160.63	59600000
	88.1%	6	155.42	60400000
	82.0%	6	161.98	61800000
	89.3%	6	188.61	65200000
	87.8%	6	179.50	67400000
	85.6%	6	208.77	69500000
90	90.5%	6	204.59	73200000
	89.8%	6	214.69	76800000
	85.8%	6	205.18	78600000
	91.1%	6	214.24	77100000
	89.7%	6	199.61	77000000
	86.2%	6	215.19	76400000
	89.3%	6	231.74	76700000
	87.5%	6	250.67	77900000
	91.5%	6	236.46	78400000
	87.5%	6	249.91	81100000
100	91.4%	6	227.87	84000000
	88.7%	6	256.26	84300000
	91.5%	6	245.01	86000000
	86.3%	6	245.69	87000000
	91.9%	6	265.62	89000000
	87.0%	6	253.25	90200000
	91.5%	6	274.92	90600000
	86.5%	6	240.84	90300000
	92.0%	6	251.20	89800000

	86.9%	6	232.55	90600000
110	92.0%	6	256.72	90000000
	88.2%	6	266.39	91100000
	92.1%	6	285.11	92400000
	88.1%	6	273.98	92800000
	90.8%	6	279.86	94000000
	86.7%	6	245.76	96200000
	92.2%	6	273.29	97200000
	89.2%	6	294.70	99400000
	92.3%	6	277.79	100600000
	89.8%	6	318.51	103700000
120	92.9%	6	314.76	104800000
	89.6%	6	298.63	106300000
	92.0%	6	329.31	106400000
	88.5%	6	303.00	108300000
	92.0%	6	296.82	107600000
	89.6%	6	310.26	107800000
	92.4%	6	323.20	110200000
	89.4%	6	341.49	111500000
	94.0%	6	340.12	111400000
	90.7%	6	357.19	112900000
130	93.4%	6	328.82	114000000
	88.8%	6	320.75	114800000
	93.3%	6	329.69	115500000
	89.2%	6	320.23	116600000
	94.9%	6	380.18	116100000
	90.9%	6	352.33	115900000
	93.6%	6	348.84	112400000
	90.5%	6	330.23	112800000
	92.0%	6	322.58	114500000
	89.6%	6	329.32	115800000
140	92.9%	6	313.28	114200000
	90.4%	6	328.56	113600000
	92.0%	6	359.56	114200000

	90.2%	6	337.01	116300000
	93.9%	6	373.28	117600000
	90.5%	6	336.67	117800000
	93.9%	6	328.24	117800000
	90.3%	6	350.95	118500000
	94.6%	6	362.57	118200000
	91.0%	6	380.66	119400000
150	93.8%	6	389.49	118600000
	91.8%	6	371.80	118300000
	92.1%	6	351.69	118900000
	88.8%	5	270.59	100300000
	94.0%	6	350.39	119600000
	90.7%	6	350.75	118900000
	91.6%	6	361.82	119900000
	91.0%	6	357.39	120600000
	93.9%	6	374.53	121800000
	90.3%	6	373.03	122000000
160	92.9%	6	349.33	123400000
	90.0%	6	346.91	123500000
	93.6%	6	351.56	122100000
	90.6%	6	376.13	122800000
	93.6%	6	380.45	123600000
	90.9%	6	368.08	124100000
	93.6%	6	388.36	125300000
	90.3%	6	355.18	125700000
	93.8%	6	358.43	128000000
	90.5%	6	364.06	129600000
170	94.2%	6	412.16	129199999.99999999
	91.1%	6	384.23	129199999.99999999
	94.1%	6	395.59	127800000
	91.2%	6	392.97	128199999.99999999
	92.4%	6	362.31	131199999.99999999
	90.3%	6	368.36	134100000
	93.2%	6	377.71	136900000

	87.1%	6	363.71	138700000
	93.8%	6	417.23	140700000
	91.6%	6	409.01	141900000
180	94.3%	6	441.76	141900000
	90.7%	6	420.96	144600000
	94.3%	6	439.55	145800000
	91.3%	6	412.44	146700000
	93.4%	6	391.41	147700000
	92.4%	6	432.83	147900000
	92.5%	6	466.57	143800000
	94.2%	6	420.26	140200000
	91.3%	6	414.05	140800000
	93.7%	6	385.75	143100000
190	92.1%	6	435.54	144000000
	94.5%	6	418.42	141600000
	90.3%	6	377.70	142900000
	92.0%	6	482.18	144800000
	95.0%	6	433.28	143900000
	90.5%	6	438.76	143200000
	93.8%	6	429.65	143200000
	91.7%	6	416.60	142200000
	93.6%	6	386.83	140800000
	90.0%	6	392.01	139100000
200	94.1%	6	392.96	138400000
	92.0%	6	414.12	136300000
	93.8%	6	408.35	137200000
	92.1%	6	415.97	136700000
	93.1%	6	400.61	138000000
	90.5%	6	396.33	139200000
	93.0%	6	392.70	139500000
	90.9%	6	426.04	141100000
	93.7%	6	420.89	140300000
	92.1%	6	434.85	137500000
210	94.9%	6	450.79	136800000

	91.4%	6	441.29	139200000
	93.9%	6	378.44	137800000
	90.8%	6	392.09	139900000
	93.2%	6	372.25	138400000
	91.8%	6	435.72	137000000
	93.3%	6	384.39	137600000
	88.8%	6	421.71	139700000
	92.3%	6	401.89	141000000
	89.9%	6	376.44	142600000
220	94.0%	6	437.23	144000000
	91.4%	6	409.94	145000000
	94.8%	6	448.87	145000000
	90.2%	6	428.35	145600000
	58.9%	6	456.75	143800000

**Tabela 73:** 100 Objetos por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.3%	6	0.71	480
	1.7%	3	0.64	240
	1.7%	2	0.27	160
	3.1%	1	0.13	80
	0.9%	1	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.13	80
	0.8%	1	0.13	80
10	0.6%	1	0.17	80
	1.4%	1	0.15	80
	0.6%	1	0.14	80
	0.5%	1	0.15	80
	1.3%	1	0.12	80
	0.7%	1	0.13	80

20	0.9%	1	0.15	80
	1.1%	1	0.12	80
	0.6%	1	0.17	80
	1.0%	1	0.13	80
	1.0%	1	0.19	80
	1.2%	1	0.15	80
	0.9%	1	0.13	80
	0.3%	1	0.39	80
	1.0%	2	0.39	160
	1.0%	2	0.25	160
30	0.7%	1	0.13	80
	1.1%	1	0.12	80
	0.8%	1	0.13	80
	0.5%	1	0.13	80
	0.8%	1	0.12	80
	0.7%	1	0.15	80
40	1.3%	1	0.15	80
	1.0%	1	0.16	80
	1.2%	1	0.14	80
	0.5%	1	0.14	80
	1.2%	1	0.13	80
	0.4%	1	0.14	80
	0.4%	1	0.23	80
	0.8%	1	0.13	80
	0.9%	1	0.23	80
	0.8%	1	0.15	80
50	0.5%	1	0.13	80

	0.9%	1	0.13	80
	0.8%	3	0.66	240
	1.3%	4	0.54	320
	0.9%	2	0.30	160
	0.8%	2	0.27	160
	1.7%	2	0.36	160
	0.7%	1	0.17	80
	0.5%	2	0.35	160
60	1.2%	1	0.14	80
	0.7%	1	0.13	320
	0.4%	1	0.61	80
	0.2%	1	0.13	80
	0.6%	4	0.54	320
	0.7%	4	0.61	320
	1.0%	5	0.72	400
	1.0%	4	0.59	320
	0.7%	4	0.54	320
	1.0%	4	0.65	320
70	0.8%	4	0.66	320
	0.8%	5	0.87	400
	0.6%	6	0.88	480
	0.6%	5	0.74	400
	0.7%	6	0.83	480
	0.6%	6	0.91	480
	0.8%	6	0.93	480
	0.6%	6	0.94	480
	0.5%	6	0.83	480
	0.5%	6	0.84	480
80	0.6%	6	0.97	480
	0.6%	6	0.94	480
	0.6%	6	0.92	480
	0.5%	6	0.87	480
	0.4%	6	0.80	480



	0.4%	6	0.84	480
	0.5%	6	0.89	480
	0.4%	6	0.86	480
	0.4%	6	0.92	480
	0.5%	6	0.80	480
90	0.4%	6	0.87	480
	0.4%	6	0.89	480
	0.4%	6	0.96	480
	0.4%	6	0.87	480
	0.4%	6	0.86	480
	0.3%	6	0.92	480
	0.4%	6	0.92	480
	0.4%	6	0.96	480
	0.3%	6	0.91	480
	0.3%	6	0.84	480
100	0.4%	6	0.91	480
	0.3%	6	0.89	480
	0.3%	6	0.88	480
	0.3%	6	1.01	480
	0.3%	6	0.90	480
	0.3%	6	1.07	480
	0.3%	6	0.93	480
	0.3%	6	0.87	480
	0.2%	6	0.84	480
	0.3%	6	0.95	480
110	0.3%	6	0.93	480
	0.3%	6	1.03	480
	0.3%	6	0.88	480
	0.2%	6	0.87	480
	0.3%	6	0.88	480
	0.3%	6	0.88	480
	0.3%	6	0.88	480
	0.3%	6	0.88	480
	0.2%	6	0.90	480

	0.3%	6	0.86	480
120	0.2%	6	0.90	480
	0.2%	6	0.88	480
	0.2%	6	0.91	480
	0.3%	6	0.89	480
	0.2%	6	0.87	480
	0.2%	6	0.88	480
	0.2%	6	0.88	480
	0.2%	6	1.02	480
	0.2%	6	0.90	480
	0.2%	6	0.91	480
130	0.2%	6	0.94	480
	0.2%	6	0.91	480
	0.2%	6	0.88	480
	0.2%	6	0.94	480
	0.2%	6	0.94	480
	0.2%	6	0.89	480
	0.2%	6	0.96	480
	0.2%	6	0.88	480
	0.2%	6	0.92	480
	0.2%	6	1.01	480
140	0.2%	6	0.91	480
	0.2%	6	0.86	480
	0.2%	6	0.90	480
	0.2%	6	0.94	480
	0.2%	6	0.91	480
	0.2%	6	0.88	480
	0.2%	6	0.85	480
	0.2%	6	0.91	480
	0.2%	6	0.90	480
	0.2%	6	0.91	480
150	0.2%	6	0.86	480
	0.2%	6	0.90	480
	0.2%	6	0.97	480

	0.2%	6	0.94	480
	0.2%	6	0.91	480
	0.2%	6	0.92	480
	0.2%	6	0.90	480
	0.2%	6	0.98	480
	0.2%	6	0.93	480
	0.2%	6	0.88	480
160	0.2%	6	0.87	480
	0.2%	6	0.97	480
	0.2%	6	0.91	480
	0.2%	5	0.70	400
	0.2%	6	0.87	480
	0.2%	6	0.93	480
	0.2%	6	0.91	480
	0.2%	6	0.93	480
	0.2%	6	0.97	480
	0.2%	6	0.89	480
170	0.2%	6	0.91	480
	0.2%	6	1.00	480
	0.2%	6	0.89	480
	0.2%	6	0.92	480
	0.2%	6	0.92	480
	0.2%	6	0.94	480
	0.2%	6	0.90	480
	0.2%	6	0.93	480
	0.2%	6	0.94	480
	0.2%	6	0.97	480
180	0.2%	6	0.96	480
	0.2%	6	0.88	480
	0.2%	6	0.98	480
	0.2%	6	0.93	480
	0.2%	6	0.93	480
	0.2%	6	0.92	480
	0.2%	6	0.92	480

	0.2%	6	0.95	480
	0.2%	6	0.95	480
	0.2%	6	0.94	480
190	0.2%	6	0.98	480
	0.2%	6	0.98	480
	0.1%	6	0.90	480
	0.2%	6	0.98	480
	0.2%	6	0.96	480
	0.2%	6	0.87	480
	0.1%	6	0.88	480
	0.2%	6	0.96	480
	0.2%	6	1.01	480
	0.1%	6	0.94	480
200	0.2%	6	0.95	480
	0.2%	6	1.06	480
	0.2%	6	0.96	480
	0.2%	6	0.94	480
	0.2%	6	0.97	480
	0.2%	6	0.98	480
	0.1%	6	0.93	480
	0.2%	6	0.95	480
	0.2%	6	0.92	480
	0.1%	6	0.96	480
210	0.2%	6	0.95	480
	0.2%	6	0.93	480
	0.2%	6	1.10	480
	0.2%	6	1.10	480
	0.2%	6	0.99	480
	0.1%	6	0.88	480
	0.2%	6	1.02	480
	0.2%	6	1.03	480
	0.2%	6	0.96	480
	0.2%	6	0.96	480
220	0.2%	6	0.98	480

	0.2%	6	0.96	480
	0.2%	6	1.02	480
	0.2%	6	1.05	480
	0.2%	6	1.10	480

#### A.2.5 QUINHENTOS OBJETOS POR SEGUNDO

**Tabela 74:** 500 Objetos por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.5%	66	0.27	32
	0.3%	88	0.06	0
	0.3%	58	0.04	0
	0.4%	72	0.04	0
	0.2%	72	0.04	0
	0.6%	72	0.04	0
	0.2%	142	0.04	0
	0.2%	90	0.03	0
10	0.2%	92	0.07	0
	0.1%	98	0.04	0
	0.4%	100	0.05	0
	0.2%	102	0.04	0
	0.5%	112	0.07	0
	0.3%	152	0.06	0
	0.2%	112	0.04	0
	0.2%	114	0.04	0
	0.5%	134	0.07	0
	0.4%	134	0.05	0
20	0.4%	138	0.09	0
	0.2%	142	0.07	0
	0.5%	142	0.07	0
	0.5%	142	0.07	0
	0.2%	150	0.07	0

	0.7%	152	0.10	0
	0.3%	150	0.07	0
	1.1%	168	0.19	0
	0.5%	156	0.06	0
	0.4%	162	0.07	0
30	0.1%	288	0.16	0
	0.4%	254	0.07	0
	0.5%	278	0.12	0
	0.6%	278	0.08	0
	0.3%	150	0.08	0
	0.6%	276	0.07	0
	0.4%	154	0.10	0
	0.4%	278	0.13	0
	0.3%	184	0.08	0
	0.4%	278	0.15	0
40	0.8%	320	0.08	0
	0.3%	172	0.21	0
	1.3%	192	0.09	0
	0.3%	258	0.16	0
	0.3%	248	0.12	0
	0.3%	292	0.14	0
	0.4%	274	0.12	0
	0.4%	192	0.19	0
	0.5%	362	0.23	0
	0.4%	398	0.10	0
50	0.2%	362	0.18	0
	0.4%	446	0.10	0
	0.3%	362	0.17	0
	0.5%	380	0.10	0
	0.4%	356	0.17	0
	0.2%	362	0.12	0
	0.3%	292	0.10	0
	0.3%	238	0.12	0
	0.3%	236	0.16	0

	0.2%	310	0.15	0
60	0.3%	316	0.16	0
	0.2%	414	0.22	0
	0.2%	440	0.22	0
	0.3%	448	0.22	0
	0.3%	406	0.20	0
	0.2%	518	0.26	0
	0.2%	674	0.23	0
	0.2%	674	0.28	0
	0.2%	568	0.28	0
	0.2%	494	0.27	0
70	0.2%	674	0.28	0
	0.2%	674	0.36	0
	0.2%	610	0.28	0
	0.2%	698	0.35	0
	0.2%	620	0.34	0
	0.2%	732	0.34	0
	0.1%	780	0.30	0
	0.2%	762	0.36	0
	0.2%	714	0.34	0
	0.2%	698	0.41	0
80	0.2%	804	0.34	0
	0.2%	760	0.39	0
	0.2%	654	0.33	0
	0.2%	804	0.34	0
	0.1%	696	0.34	0
	0.2%	1078	0.32	0
	0.2%	860	0.38	0
	0.1%	804	0.39	0
	0.2%	804	0.39	0
	0.2%	776	0.37	0
90	0.2%	1078	0.41	0
	0.2%	876	0.53	0
	0.2%	1006	0.55	0

	0.2%	1078	0.57	0
	0.2%	1070	0.53	0
	0.2%	1078	0.55	0
	0.1%	1070	0.59	0
	0.1%	1142	0.55	0
	0.1%	1286	0.48	0
	0.2%	1026	0.55	0
100	0.2%	946	0.48	0
	0.2%	982	0.47	0
	0.2%	1030	0.55	0
	0.2%	1286	0.55	0
	0.2%	1092	0.64	0
	0.2%	1286	0.64	0
	0.2%	1140	0.66	0
	0.1%	1108	0.62	0
	0.2%	1286	0.69	0
	0.2%	1300	0.68	0
110	0.1%	1264	0.69	0
	0.1%	1404	0.52	0
	0.2%	1458	0.66	0
	0.1%	1244	0.66	0
	0.1%	1322	0.66	0
	0.1%	1288	0.54	0
	0.2%	1116	0.59	0
	0.1%	1260	0.66	0
	0.1%	1164	0.58	0
	0.1%	1244	0.66	0
120	0.1%	1244	0.63	0
	0.1%	1358	0.64	0
	0.1%	1318	0.75	0
	0.1%	1476	0.78	0
	0.1%	1244	0.61	0
	0.1%	1498	0.66	0
	0.1%	1418	0.66	0



	0.1%	1406	0.73	0
	0.1%	1146	0.68	0
	0.1%	1104	0.65	0
130	0.1%	1312	0.57	0
	0.1%	1382	0.75	0
	0.1%	1384	0.75	0
	0.1%	1552	0.62	0
	0.1%	1492	0.66	0
	0.1%	1648	0.68	0
	0.1%	1712	0.71	0
	0.1%	1754	0.79	0
	0.1%	1600	0.70	0
	0.1%	1552	0.75	0
140	0.1%	1336	0.83	0
	0.1%	1576	0.90	0
	0.1%	1588	0.92	0
	0.1%	1670	0.88	0
	0.1%	1784	0.77	0
	0.1%	1770	0.70	0
	0.1%	1902	0.80	0
	0.2%	1764	0.79	0
	0.1%	1752	0.83	0
	0.1%	1854	0.91	0
150	0.1%	1982	0.92	0
	0.1%	2002	0.97	0
	0.1%	2065	0.91	0
	0.1%	1806	0.87	0
	0.1%	2108	0.91	0
	0.1%	2140	0.97	0
	0.1%	1718	0.96	0
	0.1%	1436	1.27	0
	0.1%	1950	0.97	0
	0.1%	1510	1.05	0
160	0.1%	1868	1.01	0

	0.1%	1646	0.84	0
	0.1%	1714	0.69	0
	0.1%	1980	0.92	0
	0.1%	2112	0.73	0
	0.1%	1774	0.97	0
	0.1%	1950	0.85	0
	0.1%	1712	0.87	0

**Tabela 75:** 500 Objetos por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.0%	22	0.05	0
	0.1%	36	0.02	0
	0.1%	16	0.02	0
	0.3%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	26	0.01	0
	0.1%	34	0.01	0
	0.1%	40	0.01	0
10	0.1%	50	0.02	0
	0.0%	48	0.02	0
	0.2%	50	0.02	0
	0.0%	50	0.02	0
	0.4%	116	0.05	0
	0.1%	42	0.02	0
	0.1%	60	0.02	0
	0.1%	68	0.04	0
	0.5%	106	0.05	0
	0.4%	144	0.08	0
20	0.4%	110	0.05	0
	0.1%	150	0.06	0
	0.5%	150	0.04	0

	0.3%	100	0.07	0
	0.2%	146	0.07	0
	0.7%	238	0.11	0
	0.2%	100	0.04	0
	0.8%	136	0.14	0
	0.4%	120	0.04	0
	0.1%	116	0.06	0
30	0.4%	284	0.14	0
	0.7%	264	0.14	0
	0.3%	126	0.08	0
	0.7%	274	0.13	0
	0.2%	104	0.05	0
	0.2%	140	0.06	0
	0.2%	240	0.05	0
	0.2%	128	0.11	0
	0.4%	240	0.07	0
	0.9%	378	0.18	0
40	0.3%	146	0.07	0
	1.0%	168	0.16	0
	0.3%	120	0.07	0
	0.3%	246	0.15	0
	0.3%	224	0.11	0
	0.3%	248	0.11	0
	0.3%	254	0.11	0
	0.6%	298	0.14	0
	0.1%	112	0.05	0
	0.5%	362	0.20	0
50	0.2%	380	0.23	0
	0.4%	376	0.20	0
	0.5%	458	0.08	0
	0.2%	396	0.14	0
	0.3%	376	0.08	0
	0.1%	670	0.08	0
	0.3%	196	0.26	0

	0.1%	190	0.16	0
	0.2%	284	0.16	0
	0.1%	326	0.17	0
60	0.3%	332	0.21	0
	0.3%	384	0.19	0
	0.2%	670	0.26	0
	0.2%	670	0.19	0
	0.1%	414	0.26	0
	0.2%	454	0.22	0
	0.2%	316	0.25	0
	0.3%	484	0.24	0
	0.1%	670	0.26	0
	0.2%	474	0.26	0
70	0.2%	540	0.34	0
	0.2%	670	0.31	0
	0.2%	540	0.26	0
	0.2%	540	0.36	0
	0.2%	712	0.28	0
	0.2%	552	0.30	0
	0.1%	796	0.30	0
	0.1%	634	0.36	0
	0.2%	588	0.50	0
	0.2%	636	0.35	0
80	0.1%	806	0.29	0
	0.1%	796	0.36	0
	0.2%	796	0.33	0
	0.1%	648	0.36	0
	0.1%	796	0.36	0
	0.1%	620	0.29	0
	0.2%	682	0.39	0
	0.1%	616	0.32	0
	0.2%	598	0.36	0
	0.2%	796	0.36	0
90	0.1%	756	0.40	0

	0.1%	866	0.58	0
	0.1%	1020	0.45	0
	0.1%	928	0.62	0
	0.1%	1250	0.42	0
	0.2%	1226	0.54	0
	0.1%	1250	0.42	0
	0.1%	916	0.54	0
	0.1%	1250	0.47	0
	0.1%	928	0.54	0
100	0.2%	1250	0.46	0
	0.1%	862	0.56	0
	0.1%	1122	0.54	0
	0.1%	1250	0.61	0
	0.1%	950	0.45	0
	0.2%	1100	0.54	0
	0.2%	1224	0.54	0
	0.1%	1144	0.60	0
	0.1%	1284	0.62	0
	0.1%	1526	0.73	0
110	0.1%	986	0.69	0
	0.2%	1258	0.61	0
	0.1%	1238	0.56	0
	0.2%	936	0.61	0
	0.1%	1258	0.64	0
	0.1%	1258	0.61	0
	0.2%	1212	0.66	0
	0.1%	1056	0.56	0
	0.1%	1266	0.61	0
	0.1%	1258	0.57	0
120	0.1%	1258	0.61	0
	0.1%	1162	0.69	0
	0.1%	1230	0.74	0
	0.1%	1164	0.57	0
	0.1%	1428	0.68	0

	0.1%	1306	0.58	0
	0.1%	1198	0.57	0
	0.1%	950	0.62	0
	0.1%	1302	0.57	0
	0.1%	1266	0.57	0
130	0.1%	1454	0.66	0
	0.1%	1266	0.75	0
	0.1%	1638	0.71	0
	0.1%	1646	0.67	0
	0.1%	1676	0.72	0
	0.1%	1646	0.61	0
	0.1%	1524	0.81	0
	0.1%	1274	0.71	0
	0.1%	1446	0.75	0
	0.1%	2096	0.74	0
140	0.1%	1428	0.86	0
	0.1%	1594	0.75	0
	0.1%	1680	0.85	0
	0.1%	1756	0.75	0
	0.1%	1686	0.75	0
	0.1%	1644	0.81	0
	0.1%	1826	0.64	0
	0.1%	2096	0.71	0
	0.1%	2096	0.81	0
	0.1%	1816	0.80	0
150	0.1%	1756	0.81	0
	0.1%	1796	0.81	0
	0.1%	1756	0.86	0
	0.1%	2096	0.85	0
	0.1%	2096	0.89	0
	0.1%	2168	0.85	0
	0.1%	1792	0.84	0
	0.1%	1460	0.83	0
	0.1%	1756	0.95	0

	0.1%	1756	1.04	0
160	0.1%	1366	0.85	0
	0.1%	1672	0.91	0
	0.1%	1524	0.74	0
	0.1%	1636	0.87	0
	0.1%	1900	0.65	0
	0.1%	1926	0.83	0
	0.1%	1902	0.83	0
	0.1%	1706	0.80	0

**Tabela 76:** 500 Objetos por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.2%	112	0.10	0
	0.8%	188	0.15	0
	0.8%	118	0.16	0
	1.9%	118	0.09	0
	0.2%	164	0.10	0
	1.1%	202	0.10	0
	0.6%	252	0.12	0
	1.6%	294	0.14	0
10	1.6%	688	0.15	0
	0.8%	688	0.24	0
	0.5%	394	0.54	0
	0.7%	552	0.22	0
	4.8%	604	0.54	0
	1.8%	650	0.25	0
	1.1%	668	0.27	0
	3.1%	696	0.30	0
	1.7%	688	0.29	0
	1.6%	688	0.33	0
20	1.6%	2248	0.38	0

	1.7%	2248	0.54	0
	2.5%	734	0.54	0
	4.6%	1560	0.70	0
	1.7%	782	0.50	0
	1.6%	796	0.50	0
	1.7%	2248	0.36	0
	5.0%	884	0.82	0
	3.4%	2248	0.45	0
	0.9%	1848	0.50	0
30	2.9%	914	0.97	0
	2.3%	1892	0.94	0
	4.9%	962	0.50	0
	1.7%	976	0.91	0
	1.7%	2248	0.43	0
	1.7%	1028	0.99	0
	3.5%	2248	0.50	0
	5.2%	1122	0.50	0
	4.4%	5396	0.83	0
	2.3%	2388	0.55	0
40	4.4%	5396	1.29	0
	5.1%	2464	1.18	0
	4.4%	5396	1.24	0
	2.7%	2510	1.18	0
	3.6%	5396	1.24	0
	4.4%	1260	1.23	0
	3.9%	4248	1.24	0
	5.4%	5396	0.60	0
	1.6%	4170	2.01	0
	4.4%	4036	1.24	0
50	3.2%	5396	2.16	0
	4.7%	2744	1.89	0
	4.4%	4408	1.24	0
	2.8%	4412	2.53	0
	5.0%	4390	1.90	0



	3.7%	5888	1.24	0
	2.9%	10282	1.28	0
	4.1%	10282	2.05	0
	3.4%	5966	2.25	0
	3.4%	10282	2.69	0
60	3.9%	8140	2.95	0
	3.4%	10282	3.05	0
	4.5%	10282	5.12	0
	3.6%	8238	5.12	0
	3.4%	8474	3.67	0
	3.4%	10358	3.80	0
	4.0%	10282	5.12	0
	4.5%	10606	5.12	0
	3.4%	11156	5.12	0
	4.5%	11718	5.15	0
70	4.1%	12960	6.58	0
	5.3%	12930	5.12	0
	3.5%	15092	5.08	0
	3.9%	13304	5.76	0
	4.2%	15092	5.38	0
	4.2%	13846	5.64	0
	3.6%	15092	6.29	0
	4.0%	17510	7.90	0
	4.2%	14638	5.85	0
	4.0%	17510	6.38	0
80	4.0%	15092	6.62	0
	3.3%	15092	6.77	0
	4.5%	15092	7.81	0
	3.7%	17510	7.43	0
	4.0%	15990	8.88	0
	4.2%	17510	9.55	0
	4.0%	17072	8.93	0
	4.0%	17510	11.22	0
	4.0%	17510	11.22	0

	3.9%	22402	9.19	0
90	4.1%	22402	9.48	0
	4.3%	18692	10.05	0
	4.1%	19444	11.30	0
	3.9%	20182	11.22	0
	4.0%	20320	11.22	0
	3.6%	22402	10.59	0
	4.2%	20470	11.22	0
	3.7%	22402	10.44	0
	4.0%	21300	11.22	0
	3.8%	22402	11.69	0
100	4.0%	21392	12.41	0
	3.9%	22098	12.45	0
	4.2%	22402	12.35	0
	4.2%	23922	10.33	0
	4.2%	24368	13.93	0
	3.7%	25192	13.20	0
	3.8%	26410	17.31	0
	4.2%	22246	14.32	0
	3.8%	28646	17.31	0
	4.6%	28936	14.22	0
110	4.3%	29534	14.48	0
	4.1%	30078	14.28	0
	3.9%	30776	17.31	0
	3.6%	31126	15.91	0
	4.1%	32776	17.31	0
	4.1%	32682	17.31	0
	4.1%	32900	15.00	0
	4.3%	33606	16.40	0
	3.9%	33904	19.60	0
	3.6%	34538	18.57	0
120	4.0%	34852	16.60	0
	4.1%	35452	17.31	0
	4.2%	36116	17.13	0

	4.1%	37058	18.57	0
	3.8%	38508	17.96	0
	3.5%	38626	17.48	0
	3.7%	38950	18.57	0
	3.9%	38980	18.07	0
	4.0%	39104	18.41	0
	4.0%	39842	18.18	0
130	4.1%	44712	18.82	0
	4.1%	39984	18.72	0
	3.8%	41126	19.45	0
	3.7%	41606	21.67	0
	3.8%	41986	19.09	0
	3.7%	42828	19.86	0
	4.3%	43944	20.61	0
	4.1%	44712	20.63	0
	4.0%	44218	20.94	0
	3.9%	44712	20.73	0
140	4.2%	45742	21.67	0
	4.0%	47064	21.65	0
	4.0%	48220	21.67	0
	3.7%	48456	23.85	0
	4.1%	52757	23.84	0
	4.2%	48704	22.66	0
	3.9%	48818	22.24	0
	3.8%	48474	24.17	0
	4.3%	48504	22.72	0
	3.3%	50216	22.61	0
150	4.2%	50654	23.39	0
	4.2%	52072	23.51	0
	3.6%	52824	24.67	0
	3.7%	52804	24.95	0
	3.8%	52757	24.31	0
	4.0%	52757	24.81	0
	3.5%	53308	24.96	0

	3.8%	59080	24.17	0
	4.3%	53284	24.17	0
	4.2%	53772	25.26	0
160	4.9%	54402	26.13	0
	4.6%	55870	25.72	0
	4.0%	56524	35.04	0
	4.2%	57010	37.28	0
	4.5%	56578	29.36	0
	3.8%	56614	26.48	0
	3.8%	57532	27.72	0
	2.9%	58050	27.48	0

**Tabela 77:** 500 Objetos por segundo Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50	0.1%	2	0.09	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
	0.0%	16	0.01	0
	0.0%	20	0.02	0
60	0.0%	20	0.01	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
70	0.0%	8	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
80	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
90	0.0%	4	0.00	0

	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
100	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
110	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
120	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
130	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
140	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
150	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0

	0.0%	4	0.00	0
160	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.01	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0

**Tabela 78:** 500 Objetos por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.1%	2	0.08	0
	0.0%	8	0.01	0



	0.0%	4	0.00	0
60	0.0%	8	0.00	0
	0.0%	8	0.03	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
70	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
80	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
90	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%			
		6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
100				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
110	0.0%			
		2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4		0
			0.00	
	0.0%	10	0.00	0
	0.0%	2	0.00	0
120	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	6	0.00	0
	0.0%	8	0.00	0
130	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2		0
			0.01	
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
140	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%			
		4	0.00	0
	0.0%	4	0.00	0
150	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.01	0
160	0.0%	6	0.00	0

	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

**Tabela 79:** 500 Objetos por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.3%	10	0.11	0
	0.0%	8	0.02	0
	0.1%	12	0.45	0
	0.0%	38	0.02	0
	0.0%	928	0.45	0
	0.1%	928	0.05	0
	0.1%	58	0.04	0
	0.1%	138	0.09	0
	0.2%	168	0.12	0
60	0.2%	222	0.13	0

	0.2%	284	0.20	0
	0.1%	390	0.16	0
	0.2%	418	0.27	0
	0.2%	488	0.22	0
	0.4%	492	0.27	0
	0.2%	510	0.55	0
	0.2%	560	0.26	0
	0.2%	546	0.30	0
	0.2%	506	0.25	0
70	0.1%	492	0.34	0
	0.2%	492	0.24	0
	0.1%	516	0.26	0
	0.1%	548	0.26	0
	0.2%	540	0.33	0
	0.1%	540	0.29	0
	0.2%	540	0.29	0
	0.1%	528	0.27	0
	0.1%	558	0.32	0
	0.1%	550	0.29	0
80	0.1%	574	0.30	0
	0.1%	618	0.30	0
	0.1%	690	0.33	0
	0.1%	652	0.35	0
	0.2%	650	0.33	0
	0.1%	690	0.38	0
	0.2%	656	0.34	0
	0.1%	690	0.33	0
	0.1%	702	0.41	0
	0.1%	724	0.33	0
90	0.1%	708	0.34	0
	0.1%	714	0.36	0
	0.1%	696	0.37	0
	0.1%	682	0.38	0
	0.1%	712	0.38	0

	0.1%	710	0.40	0
	0.1%	702	0.44	0
	0.1%	696	0.38	0
	0.1%	742	0.38	0
	0.1%	772	0.42	0
100	0.1%	772	0.39	0
	0.1%	780	0.40	0
	0.1%	792	0.40	0
	0.1%	772	0.37	0
	0.1%	776	0.46	0
	0.1%	768	0.40	0
	0.1%	592	0.40	0
	0.1%	710	0.60	0
	0.1%	730	0.39	0
	0.1%	738	0.36	0
110	0.1%	752	0.36	0
	0.1%	806	0.37	0
	0.1%	814	0.42	0
	0.1%	836	0.46	0
	0.1%	800	0.49	0
	0.1%	838	0.49	0
	0.0%	834	0.45	0
	0.1%	800	0.37	0
	0.1%	824	0.44	0
	0.1%	800	0.45	0
120	0.1%	804	0.70	0
	0.1%	800	0.45	0
	0.1%	808	0.41	0
	0.1%	826	0.48	0
	0.1%	828	0.77	0
	0.1%	848	0.52	0
	0.0%	874	0.49	0
	0.0%	900	0.43	0
	0.1%	880	0.41	0

	0.0%	882	0.44	0
130	0.0%	870	0.44	0
	0.0%	838	0.40	0
	0.0%	824	0.37	0
	0.0%	828	0.40	0
	0.0%	870	0.45	0
	0.0%	870	0.43	0
	0.0%	878	0.40	0
	0.0%	858	0.40	0
	0.0%	858	0.46	0
	0.0%	828	0.46	0
140	0.0%	834	0.41	0
	0.0%	842	0.50	0
	0.1%	842	0.41	0
	0.1%	866	0.40	0
	0.0%	894	0.59	0
	0.0%	892	0.49	0
	0.0%	886	0.47	0
	0.0%	910	0.48	0
	0.0%	934	0.48	0
	0.0%	970	0.53	0
150	0.1%	972	0.47	0
	0.0%	950	0.46	0
	0.0%	936	0.55	0
	0.0%	934	0.46	0
	0.0%	916	0.42	0
	0.0%	900	0.46	0
	0.0%	900	0.43	0
	0.0%	920	0.43	0
	0.0%	928	0.43	0
	0.0%	854	0.39	0
160	0.0%	876	0.45	0
	0.0%	920	0.46	0
	0.0%	926	0.43	0

	0.0%	932	0.45	0
	0.0%	938	0.41	0
	0.0%	952	0.53	0
	0.0%	966	0.57	0
	0.0%	966	0.53	0

**Tabela 80:** 500 Objetos por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	3.6%	3	2.21	700000
	13.0%	1	1.36	1100000
	13.0%	1	1.54	500000
	18.2%	1	1.54	900000
	42.3%	1	1.78	900000
	17.1%	1	2.06	1100000
	9.0%	2	2.46	1300000
	27.7%	2	14.36	1500000
10	25.5%	2	14.36	3400000
	25.5%	1	15.25	1900000
	10.9%	1	15.25	3400000
	27.7%	2	3.60	2100000
	11.6%	1	4.48	9900000
	8.0%	2	12.27	9900000
	60.2%	1	15.25	4600000
	55.8%	1	5.64	2700000
	24.7%	1	15.25	3000000
	27.7%	1	14.36	9900000
20	21.3%	2	14.36	3300000
	27.7%	1	14.13	3300000
	47.3%	1	5.19	9900000
	46.8%	2	15.25	3400000
	25.5%	1	15.25	3400000



	25.5%	2	16.20	3600000
	42.5%	2	7.04	3600000
	38.6%	2	18.27	3800000
	64.2%	1	24.73	3900000
	27.7%	1	15.25	9900000
30	64.2%	4	24.73	4000000
	27.7%	1	15.25	9900000
	46.8%	4	24.73	8300000.0000000001
	32.6%	2	9.47	8500000
	74.8%	1	17.42	4200000
	68.1%	2	25.61	4500000
	84.5%	4	24.73	16100000.0000000002
	84.5%	2	24.12	4700000
	65.8%	4	25.28	9900000
	27.7%	2	25.69	16100000.0000000002
40	71.1%	2	24.73	9600000
	84.5%	4	17.01	9900000
	27.7%	2	44.26	16100000.0000000002
	80.6%	4	24.73	4700000
	84.5%	1	39.65	4900000
	72.2%	3	43.65	16100000.0000000002
	72.7%	4	24.73	10000000
	58.2%	3	48.16	10300000
	72.9%	3	30.40	10500000
	84.5%	4	24.73	16100000.0000000002
50	73.4%	2	34.95	10700000
	84.5%	6	36.43	16100000.0000000002
	81.8%	6	49.30	16900000
	72.4%	3	103.30	17600000
	46.7%	6	103.30	17400000
	84.5%	3	50.23	16100000.0000000002
	71.6%	4	58.33	16600000.0000000002
	87.0%	6	103.30	21300000
	84.5%	6	62.69	16100000.0000000002

	70.7%	4	103.30	11300000
60	70.7%	4	103.30	17400000
	70.7%	6	71.63	40800000
	80.2%	6	79.22	40800000
	84.6%	5	82.95	17500000
	70.7%	5	103.30	17500000
	70.7%	6	103.30	23200000
	62.3%	6	103.60	40800000
	73.2%	6	102.52	40800000
	89.6%	6	103.30	40800000
	74.9%	6	105.88	31700000
70	70.7%	6	112.29	40800000
	70.7%	6	104.17	40800000
	83.3%	6	116.96	32799999.999999996
	87.3%	6	126.14	40400000
	70.7%	6	155.53	40800000
	80.7%	6	139.51	43600000
	82.7%	6	171.24	45400000
	71.8%	6	171.24	47300000
	82.7%	6	128.89	49600000
	78.2%	6	171.24	60800000
80	82.7%	6	171.24	49400000
	76.5%	6	132.53	50900000
	78.2%	6	148.20	60800000
	78.2%	6	171.24	60800000
	84.7%	6	169.56	60800000
	78.2%	6	171.24	54600000
	79.9%	6	171.24	69800000
	78.2%	6	171.24	55200000
	83.2%	6	163.26	69800000
	78.2%	6	202.28	60800000
90	84.3%	6	191.13	69800000
	78.2%	6	207.69	58100000
	83.1%	6	222.48	60800000

	78.2%	6	226.86	60800000
	84.4%	6	223.90	69800000
	84.4%	6	235.02	60800000
	84.4%	6	336.17	62900000
	84.4%	6	336.17	64500000
	87.0%	6	246.52	69800000
	84.4%	6	336.17	69800000
100	88.6%	6	251.40	66400000.00000001
	84.4%	6	420.20	69800000
	84.4%	6	262.17	69800000
	88.3%	6	336.17	72100000
	84.4%	6	290.10	74500000
	84.9%	6	420.20	77000000
	90.0%	6	240.19	78800000
	85.3%	6	336.17	80200000
	84.9%	6	316.43	80900000
	86.7%	6	336.17	85500000
110	90.8%	6	420.20	86200000
	86.0%	6	287.20	90400000
	85.0%	6	336.17	96200000
	88.6%	6	420.20	96800000
	93.8%	6	300.93	101400000
	90.0%	6	434.46	102000000
	93.8%	6	300.71	84400000
	88.8%	6	420.20	103300000
	93.8%	6	311.05	104100000
	92.8%	6	336.17	106600000
120	91.9%	6	434.46	109000000
	93.8%	6	420.20	110200000
	92.8%	6	420.20	113500000
	89.5%	6	354.65	161100000
	93.8%	6	352.57	120000000
	92.8%	6	434.46	149300000
	92.8%	6	434.46	123600000

	93.8%	6	324.65	161100000
	93.8%	6	510.23	157800000
	92.5%	6	346.57	124100000
130	89.4%	6	420.20	124700000
	91.8%	6	434.46	149300000
	92.8%	6	384.81	161100000
	86.7%	6	426.64	124800000
	93.2%	6	388.69	161100000
	90.5%	6	510.23	157800000
	93.8%	6	434.46	149300000
	92.8%	6	434.46	149300000
	92.8%	6	456.46	157800000
	91.0%	6	510.23	135800000
140	88.9%	6	397.05	161100000
	92.9%	6	510.23	138200000
	90.3%	6	442.94	157800000
	93.2%	6	479.85	142500000
	92.8%	6	434.82	149300000
	94.6%	6	456.46	145700000
	92.1%	6	510.23	157800000
	94.5%	6	434.46	161100000
	91.8%	6	456.46	181900000
	92.8%	6	433.75	161100000
150	92.1%	6	426.45	146400000
	93.3%	6	460.54	147400000
	92.5%	6	499.88	149300000
	94.2%	6	456.46	149300000
	91.8%	6	510.23	153200000
	92.0%	6	629.91	157800000
	93.3%	6	510.23	181900000
	93.3%	6	456.46	157800000
	92.4%	6	457.85	159500000
	93.3%	6	488.10	181900000
160	92.5%	6	551.09	161100000

	92.8%	6	629.91	164400000
	91.7%	6	561.72	165900000
	92.2%	6	629.91	167300000
	92.5%	6	495.56	181900000
	92.1%	6	495.79	176600000
	93.8%	6	528.43	180800000
	93.3%	6	568.79	181900000

**Tabela 81:** 500 Objetos por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.8%	6	0.46	480
	2.2%	3	0.38	240
	2.2%	1	0.15	80
	1.8%	1	0.13	80
	0.8%	1	0.16	80
	1.7%	1	0.16	80
	0.9%	1	0.13	80
	0.6%	1	0.18	80
10	0.6%	1	0.16	80
	0.8%	1	0.13	80
	1.0%	1	0.14	80
	0.5%	2	0.18	80
	0.6%	1	0.14	80
	2.1%	1	0.13	160
	0.9%	1	0.13	80
	0.7%	1	0.17	80
	0.5%	1	0.12	80
	1.8%	1	0.14	80
20	0.6%	1	0.13	80
	0.6%	1	0.13	80
	1.0%	1	0.14	80
	0.9%	2	0.14	80

	0.5%	1	0.30	80
	1.9%	1	0.18	160
	0.4%	2	0.21	80
	0.8%	1	0.13	80
	0.4%	2	0.15	80
	1.2%	2	0.15	160
30	1.1%	2	0.28	80
	0.3%	1	0.26	160
	0.8%	2	0.15	160
	1.4%	1	0.15	80
	0.7%	1	0.28	160
	1.5%	2	0.12	80
	0.4%	1	0.14	80
	0.6%	2	0.29	80
	0.4%	2	0.15	160
	0.5%	1	0.15	160
40	1.0%	1	0.17	160
	1.3%	2	0.15	80
	0.7%	4	0.33	80
	1.0%	2	0.31	160
	0.6%	4	0.30	160
	0.9%	1	0.26	160
	0.6%	3	0.28	240
	0.9%	6	0.15	160
	0.9%	4	0.28	80
	0.8%	3	0.43	240
50	0.5%	4	0.88	240
	1.2%	2	0.28	480
	0.4%	6	0.57	240
	0.9%	6	0.38	240
	0.6%	3	0.28	240
	0.9%	3	0.38	320
	0.9%	4	0.88	240
	0.6%	6	0.88	160

	0.5%	4	0.56	240
	0.5%	4	0.54	480
60	0.8%	5	0.53	480
	0.6%	6	0.62	240
	0.9%	6	0.88	240
	0.5%	5	0.75	320
	0.6%	5	0.88	320
	0.8%	6	0.88	480
	0.8%	6	0.94	400
	0.5%	6	0.85	400
	0.5%	6	0.88	480
	0.8%	6	0.89	480
70	0.8%	6	0.87	400
	0.8%	6	0.85	480
	0.5%	6	0.89	480
	0.7%	6	0.93	480
	0.5%	6	0.89	480
	0.7%	6	0.93	480
	0.6%	6	0.88	480
	0.6%	6	0.89	480
	0.6%	6	0.89	480
	0.5%	6	0.99	480
80	0.6%	6	0.89	480
	0.5%	6	0.89	480
	0.6%	6	0.97	480
	0.5%	6	0.86	480
	0.5%	6	0.94	480
	0.5%	6	0.89	480
	0.5%	6	0.89	480
	0.5%	6	0.91	480
	0.7%	6	0.91	480
	0.5%	6	0.91	480
90	0.4%	6	0.91	480
	0.4%	6	0.91	480

	0.4%	6	0.97	480
	0.3%	6	0.91	480
	0.3%	6	0.86	480
	0.3%	6	0.92	480
	0.4%	6	0.86	480
	0.3%	6	0.86	480
	0.3%	6	0.86	480
	0.3%	6	0.97	480
100	0.3%	6	0.86	480
	0.3%	6	0.91	480
	0.3%	5	0.91	480
	0.3%	6	0.97	480
	0.3%	6	0.86	480
	0.3%	6	1.03	480
	0.3%	6	0.86	480
	0.3%	6	0.92	480
	0.3%	6	0.86	400
	0.2%	6	0.95	480
110	0.3%	6	0.96	480
	0.2%	6	0.90	480
	0.2%	6	0.91	480
	0.3%	6	0.96	480
	0.2%	6	0.93	480
	0.2%	6	0.96	480
	0.2%	6	1.03	480
	0.2%	6	0.96	480
	0.2%	6	0.77	480
	0.2%	6	0.91	480
120	0.2%	6	0.96	480
	0.2%	6	0.96	480
	0.2%	6	0.96	480
	0.2%	6	0.90	480
	0.2%	6	0.99	480
	0.2%	6	0.91	480



	0.2%	6	1.03	480
	0.2%	6	0.93	480
	0.2%	6	0.95	480
	0.2%	6	0.92	480
130	0.2%	6	0.98	480
	0.2%	6	1.03	480
	0.2%	6	0.92	480
	0.2%	6	0.91	480
	0.2%	6	1.05	480
	0.2%	6	1.02	480
	0.2%	6	0.96	480
	0.2%	6	0.95	480
	0.1%	6	0.99	480
	0.1%	6	0.92	480
140	0.2%	6	0.94	480
	0.2%	6	0.91	480
	0.2%	6	0.96	480
	0.2%	6	0.97	480
	0.1%	6	1.00	480
	0.2%	6	0.98	480
	0.1%	6	0.98	480
	0.1%	6	0.94	480
	0.1%	6	0.93	480
	0.1%	6	1.04	480
150	0.1%	6	1.10	480
	0.1%	6	0.97	480
	0.1%	6	0.92	480
	0.1%	6	0.92	480
	0.1%	6	0.98	480
	0.1%	6	1.04	480
	0.1%	6	0.96	480
	0.1%	6	1.04	480
	0.1%	6	0.98	480
	0.1%	6	0.97	480

160	0.1%	6	1.01	480
	0.1%	6	0.93	480
	0.1%	6	0.94	480
	0.1%	6	0.94	480
	0.1%	6	1.04	480
	0.1%	6	1.04	480
	0.1%	6	0.92	480
	0.1%	6	1.05	480

#### A.2.6 MIL OBJETOS POR SEGUNDO

**Tabela 82:** 1000 Objetos por segundo Runtime Box OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.4%	66	0.26	32
	0.5%	88	0.05	0
	0.5%	58	0.02	0
	0.1%	72	0.03	0
	0.1%	72	0.03	0
	0.1%	72	0.04	0
	0.2%	90	0.04	0
	0.2%	92	0.06	0
10	0.2%	132	0.08	0
	0.7%	96	0.10	0
	0.4%	108	0.05	0
	0.3%	114	0.05	0
	0.3%	120	0.06	0
	0.5%	112	0.12	0
	0.2%	114	0.05	0
	0.6%	184	0.09	0
	0.3%	132	0.08	0
	0.3%	152	0.07	0
20	0.3%	188	0.10	0

	0.6%	128	0.06	0
	0.5%	128	0.06	0
	0.4%	142	0.07	0
	0.2%	144	0.07	0
	0.5%	138	0.06	0
	0.4%	150	0.08	0
	0.1%	166	0.12	0
	0.4%	384	0.23	0
	0.6%	306	0.14	0
30	0.4%	256	0.14	0
	0.4%	124	0.09	0
	0.3%	242	0.11	0
	0.6%	184	0.07	0
	0.7%	180	0.09	0
	0.3%	276	0.13	0
	0.7%	290	0.06	0
	0.2%	160	0.13	0
	0.3%	290	0.10	0
	0.4%	270	0.13	0
40	0.5%	246	0.10	0
	0.3%	180	0.08	0
	0.5%	182	0.07	0
	0.3%	214	0.09	0
	0.4%	336	0.16	0
	0.3%	282	0.12	0
	0.2%	294	0.13	0
	0.4%	348	0.27	0
	0.3%	508	0.23	0
	0.3%	352	0.15	0
50	0.2%	308	0.18	0
	0.3%	300	0.19	0
	0.3%	420	0.19	0
	0.3%	426	0.10	0
	0.3%	300	0.13	0

	0.3%	298	0.16	0
	0.2%	246	0.10	0
	0.2%	302	0.14	0
	0.2%	298	0.15	0
	0.2%	304	0.19	0
60	0.3%	488	0.22	0
	0.2%	378	0.19	0
	0.2%	364	0.18	0
	0.2%	432	0.21	0
	0.2%	332	0.15	0
	0.2%	332	0.21	0
	0.2%	650	0.26	0
	0.2%	468	0.27	0
	0.2%	540	0.31	0
	0.3%	704	0.36	0
70	0.2%	650	0.35	0
	0.2%	670	0.33	0
	0.2%	624	0.31	0
	0.2%	642	0.28	0
	0.2%	592	0.27	0
	0.2%	668	0.31	0
	0.1%	684	0.33	0
	0.2%	624	0.30	0
	0.2%	702	0.31	0
	0.2%	726	0.36	0
80	0.2%	690	0.33	0
	0.1%	722	0.33	0
	0.2%	690	0.36	0
	0.2%	660	0.39	0
	0.2%	700	0.33	0
	0.1%	656	0.32	0
	0.2%	722	0.34	0
	0.2%	798	0.41	0
	0.2%	788	0.39	0

	0.2%	740	0.38	0
90	0.2%	800	0.36	0
	0.2%	852	0.40	0
	0.2%	766	0.35	0
	0.1%	698	0.36	0
	0.1%	754	0.36	0
	0.1%	720	0.39	0
	0.2%	778	0.39	0
	0.2%	764	0.42	0
	0.1%	780	0.48	0
	0.2%	788	0.37	0
100	0.1%	820	0.37	0
	0.1%	818	0.38	0
	0.1%	778	0.36	0
	0.1%	840	0.43	0
	0.2%	952	0.48	0
	0.2%	976	0.54	0
	0.2%	1198	0.60	0
	0.2%	1214	0.60	0
	0.2%	1202	0.58	0
	0.2%	1304	0.63	0
110	0.2%	1166	0.55	0
	0.1%	1740	0.75	0
	0.2%	1534	0.63	0
	0.2%	1286	0.59	0
	0.3%	1744	0.91	0
	0.2%	1710	0.82	0
	0.2%	1612	0.75	0
	0.2%	1580	0.83	0
	0.2%	1740	0.93	0
	0.2%	1442	0.68	0
120	0.1%	1266	0.59	0
	0.2%	1362	0.64	0
	0.2%	1324	0.64	0

	0.2%	1476	0.71	0
	0.1%	1386	0.65	0
	0.1%	1434	0.67	0
	0.1%	1308	0.64	0
	0.1%	1300	0.62	0
	0.1%	1296	0.56	0
	0.2%	1354	0.62	0
130	0.2%	1470	0.78	0
	0.1%	1376	0.68	0
	0.1%	1152	0.54	0
	0.1%	1212	0.60	0
	0.1%	1308	0.68	0
	0.1%	1116	0.55	0
	0.1%	1250	0.56	0
	0.1%	1138	0.53	0
	0.1%	1226	0.62	0
	0.1%	1162	0.56	0
140	0.1%	1036	0.49	0
	0.1%	1608	0.55	0
	0.1%	1060	0.49	0
	0.1%	1086	0.98	0
	0.1%	1194	0.61	0
	0.1%	1184	0.58	0
	0.1%	1458	0.79	0
	0.1%	1326	0.66	0
	0.1%	1442	0.70	0
	0.1%	1532	0.75	0
150	0.1%	1608	0.73	0
	0.1%	1908	1.02	0
	0.2%	1944	0.98	0
	0.2%	2092	1.05	0
	0.1%	2058	1.01	0
	0.2%	1778	0.97	0
	0.2%	1388	0.74	0

	0.1%	1658	0.75	0
	0.1%	1594	0.74	0
	0.1%	1660	0.84	0
160	0.1%	1312	0.69	0
	0.1%	1358	0.68	0
	0.1%	1190	0.59	0
	0.1%	1272	0.63	0
	0.1%	1400	0.76	0
	0.1%	1484	0.69	0
	0.1%	1388	0.71	0
	0.1%	1528	0.76	0
	0.1%	1444	0.74	0
	0.1%	1548	0.80	0
170	0.1%	1456	0.74	0
	0.1%	1758	0.56	0

**Tabela 83:** 1000 Objetos por segundo Runtime Box OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.0%	22	0.05	0
	0.2%	36	0.02	0
	0.2%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	26	0.01	0
	0.0%	34	0.01	0
	0.2%	40	0.01	0
10	0.0%	98	0.05	0
	0.2%	78	0.02	0
	0.1%	36	0.02	0
	0.1%	48	0.05	0
	0.1%	52	0.02	0

	0.3%	56	0.04	0
	0.1%	66	0.08	0
	0.5%	174	0.08	0
	0.2%	98	0.05	0
	0.2%	112	0.05	0
20	0.2%	202	0.18	0
	1.2%	78	0.04	0
	0.3%	78	0.03	0
	0.1%	78	0.05	0
	0.5%	126	0.05	0
	0.7%	104	0.05	0
	0.2%	114	0.05	0
	0.0%	292	0.24	0
	0.4%	454	0.14	0
	0.6%	276	0.11	0
30	0.3%	216	0.10	0
	0.4%	104	0.08	0
	0.3%	226	0.10	0
	0.3%	84	0.03	0
	0.7%	154	0.08	0
	0.2%	308	0.14	0
	0.7%	292	0.05	0
	0.2%	122	0.13	0
	0.3%	292	0.11	0
	0.4%	298	0.14	0
40	0.5%	204	0.11	0
	0.1%	80	0.03	0
	0.5%	144	0.07	0
	0.3%	154	0.08	0
	0.2%	400	0.18	0
	0.5%	268	0.12	0
	0.3%	284	0.16	0
	0.3%	270	0.12	0
	0.3%	364	0.20	0



	0.3%	364	0.22	0
50	0.3%	264	0.18	0
	0.3%	268	0.21	0
	0.3%	450	0.19	0
	0.3%	430	0.12	0
	0.2%	268	0.12	0
	0.3%	268	0.14	0
	0.2%	216	0.12	0
	0.2%	308	0.16	0
	0.1%	250	0.13	0
	0.2%	424	0.18	0
60	0.2%	394	0.22	0
	0.3%	628	0.21	0
	0.2%	356	0.24	0
	0.3%	492	0.31	0
	0.2%	308	0.14	0
	0.2%	294	0.13	0
	0.1%	628	0.23	0
	0.2%	404	0.22	0
	0.2%	508	0.31	0
	0.2%	602	0.31	0
70	0.2%	628	0.31	0
	0.2%	658	0.32	0
	0.2%	622	0.31	0
	0.2%	544	0.30	0
	0.2%	556	0.24	0
	0.1%	568	0.27	0
	0.1%	676	0.33	0
	0.2%	652	0.33	0
	0.2%	644	0.34	0
	0.2%	704	0.33	0
80	0.2%	704	0.31	0
	0.2%	644	0.40	0
	0.2%	704	0.30	0

	0.2%	616	0.40	0
	0.2%	602	0.31	0
	0.1%	612	0.31	0
	0.2%	704	0.34	0
	0.2%	734	0.35	0
	0.2%	762	0.40	0
	0.2%	692	0.36	0
90	0.2%	758	0.39	0
	0.2%	760	0.34	0
	0.2%	748	0.38	0
	0.1%	664	0.31	0
	0.1%	620	0.31	0
	0.1%	658	0.34	0
	0.1%	658	0.32	0
	0.1%	672	0.43	0
	0.1%	670	0.43	0
	0.1%	708	0.33	0
100	0.1%	788	0.37	0
	0.2%	832	0.46	0
	0.1%	658	0.34	0
	0.1%	682	0.33	0
	0.1%	796	0.43	0
	0.1%	816	0.37	0
	0.2%	1054	0.49	0
	0.2%	1158	0.55	0
	0.2%	1148	0.54	0
	0.2%	1138	0.55	0
110	0.1%	1040	0.53	0
	0.1%	1798	0.72	0
	0.2%	1500	0.59	0
	0.2%	1264	0.65	0
	0.2%	1798	0.83	0
	0.2%	1684	0.81	0
	0.2%	1464	0.65	0

	0.2%	1450	0.69	0
	0.2%	1798	0.89	0
	0.2%	1468	0.65	0
120	0.2%	1338	0.65	0
	0.1%	1290	0.60	0
	0.1%	1220	0.58	0
	0.1%	1264	0.57	0
	0.1%	1322	0.62	0
	0.1%	1258	0.65	0
	0.1%	1226	0.66	0
	0.1%	1240	0.56	0
	0.1%	1204	0.55	0
	0.1%	1582	0.82	0
130	0.2%	1258	0.66	0
	0.1%	1392	0.61	0
	0.1%	1116	0.58	0
	0.1%	1222	0.56	0
	0.1%	1258	0.64	0
	0.1%	1140	0.54	0
	0.1%	1180	0.56	0
	0.1%	1038	0.54	0
	0.1%	1068	0.50	0
	0.1%	1064	0.57	0
140	0.1%	912	0.47	0
	0.1%	1582	0.50	0
	0.1%	916	0.45	0
	0.1%	972	0.92	0
	0.1%	1030	0.55	0
	0.1%	1130	0.56	0
	0.1%	1436	0.79	0
	0.1%	1096	0.57	0
	0.1%	1582	0.70	0
	0.1%	1508	0.75	0
150	0.1%	1582	0.92	0

	0.1%	1942	1.02	0
	0.2%	1846	0.92	0
	0.2%	1982	0.98	0
	0.1%	2098	1.02	0
	0.2%	1706	0.82	0
	0.1%	1344	0.79	0
	0.1%	1556	0.73	0
	0.1%	1630	0.75	0
	0.1%	1340	0.65	0
160	0.1%	1182	0.62	0
	0.1%	1102	0.55	0
	0.1%	1254	0.61	0
	0.1%	1286	0.67	0
	0.1%	1436	0.69	0
	0.1%	1344	0.65	0
	0.1%	1344	0.75	0
	0.1%	1450	0.73	0
	0.1%	1378	0.73	0
	0.1%	1500	0.78	0
170	0.1%	1644	0.65	0
	0.1%	1338	0.87	0

**Tabela 84:** 1000 Objetos por segundo Runtime Box OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.1%	112	0.11	0
	1.0%	188	0.11	0
	1.0%	80	0.05	0
	0.4%	118	0.06	0
	0.3%	118	0.08	0
	0.4%	202	0.09	0
	0.6%	252	0.09	0

	1.3%	638	0.12	0
10	1.3%	718	0.42	0
	0.4%	718	0.23	0
	1.5%	342	0.21	0
	1.6%	390	0.39	0
	1.6%	446	0.39	0
	1.6%	504	0.32	0
	4.1%	612	0.87	0
	1.3%	1332	0.75	0
	1.3%	638	0.37	0
	1.3%	658	0.32	0
20	1.3%	1444	0.76	0
	5.1%	718	0.43	0
	3.6%	718	0.40	0
	1.4%	768	0.39	0
	3.5%	816	0.39	0
	4.8%	850	0.46	0
	2.6%	886	0.46	0
	4.8%	2200	2.09	0
	0.6%	3726	1.29	0
	3.7%	2200	1.07	0
30	5.5%	2738	0.77	0
	3.1%	1872	1.07	0
	4.0%	948	1.02	0
	3.4%	1968	0.48	0
	3.9%	1004	0.52	0
	4.8%	1034	0.96	0
	4.8%	2148	0.52	0
	1.8%	2200	1.01	0
	2.9%	1060	1.07	0
	3.2%	2200	1.04	0
40	5.3%	2150	1.07	0
	2.6%	2218	0.61	0
	3.6%	1152	0.56	0

	3.3%	1188	1.12	0
	1.9%	1216	1.11	0
	3.1%	2486	1.25	0
	3.3%	3958	1.28	0
	2.9%	2510	2.51	0
	2.7%	2504	1.28	0
	4.0%	3862	2.31	0
50	3.3%	3958	1.88	0
	3.3%	3810	2.51	0
	4.6%	3930	1.28	0
	3.3%	3958	1.92	0
	4.7%	3870	2.03	0
	4.4%	5224	1.28	0
	4.3%	3958	2.03	0
	3.6%	4072	3.44	0
	4.3%	2676	2.97	0
	3.0%	4226	3.46	0
60	3.9%	4254	3.35	0
	5.3%	7474	5.30	0
	4.3%	6062	2.84	0
	4.1%	10232	4.26	0
	4.4%	6042	3.85	0
	3.9%	7238	5.30	0
	3.9%	5940	5.30	0
	4.9%	6000	4.35	0
	3.4%	10232	5.08	0
	4.3%	10232	4.88	0
70	3.9%	7648	5.30	0
	4.0%	7898	5.27	0
	4.0%	9872	5.35	0
	3.4%	10232	5.35	0
	3.6%	10372	5.46	0
	4.3%	10354	5.77	0
	4.4%	10774	5.51	0

	3.6%	11184	5.56	0
	2.9%	11546	6.79	0
	4.0%	11744	6.79	0
80	4.8%	11708	6.43	0
	3.9%	11778	6.85	0
	4.0%	13836	6.54	0
	3.5%	11956	6.79	0
	4.3%	12318	6.53	0
	4.0%	13836	6.79	0
	4.9%	12748	7.75	0
	4.0%	13266	6.90	0
	3.6%	13836	6.93	0
	4.3%	13700	8.47	0
90	3.7%	13836	8.47	0
	3.4%	14380	7.18	0
	3.8%	14664	7.50	0
	3.8%	14872	7.66	0
	3.7%	14944	8.45	0
	3.7%	14982	8.47	0
	4.3%	15220	8.47	0
	3.9%	15654	8.49	0
	3.5%	16358	8.37	0
	4.5%	19748	8.92	0
100	4.0%	19748	11.26	0
	3.7%	16914	8.98	0
	3.7%	17380	11.26	0
	4.5%	17682	9.53	0
	3.8%	17960	9.89	0
	4.6%	18890	10.47	0
	4.0%	19748	10.52	0
	4.0%	19748	11.26	0
	4.4%	20840	10.83	0
	3.7%	21468	11.26	0
110	4.0%	22170	11.68	0

	3.8%	22490	11.33	0
	3.7%	23136	12.06	0
	3.9%	24040	11.42	0
	3.8%	26196	14.55	0
	4.0%	24098	12.69	0
	4.1%	24354	13.12	0
	3.7%	26196	12.00	0
	3.9%	24168	14.55	0
	3.7%	25390	12.48	0
120	4.1%	26160	12.27	0
	3.7%	26196	12.56	0
	4.0%	26030	14.55	0
	3.9%	25972	13.52	0
	3.9%	26196	15.76	0
	3.8%	26672	14.55	0
	3.5%	28832	11.78	0
	3.8%	32560	15.56	0
	4.1%	29500	17.38	0
	4.2%	30156	14.25	0
130	3.8%	30640	14.63	0
	4.1%	25714	14.45	0
	3.5%	32560	14.92	0
	3.6%	30976	15.47	0
	3.9%	30684	17.38	0
	4.2%	30846	14.95	0
	4.4%	32560	15.18	0
	4.0%	30938	17.38	0
	4.1%	31250	15.65	0
	3.7%	31574	15.83	0
140	3.8%	32046	16.69	0
	3.9%	32560	16.69	0
	4.1%	40258	18.50	0
	4.3%	33508	19.96	0
	4.1%	34258	17.38	0



	4.3%	35192	19.61	0
	3.9%	36134	19.69	0
	4.0%	36632	18.09	0
	3.6%	37174	18.36	0
	4.1%	40258	19.04	0
150	4.0%	37288	19.96	0
	4.1%	38172	18.56	0
	3.7%	40258	19.96	0
	3.6%	44078	18.62	0
	3.7%	39128	20.17	0
	3.9%	39324	18.71	0
	4.1%	39308	23.65	0
	4.2%	47090	19.49	0
	4.0%	40050	20.41	0
	3.7%	39674	19.42	0
160	3.9%	40258	19.96	0
	3.7%	44078	19.78	0
	3.7%	40656	20.52	0
	4.3%	44078	20.16	0
	3.8%	40898	20.73	0
	4.6%	41404	21.07	0
	4.5%	41666	23.65	0
	4.4%	47090	23.65	0
	4.1%	42566	21.53	0
	4.2%	47090	22.72	0
170	4.3%	42786	23.62	0
	4.2%	43192	21.41	0

**Tabela 85:** 1000 Objetos por segundo Runtime Box OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	0.1%	4	0.09	0
	0.0%	6	0.00	0
	0.0%	8	0.01	0
60	0.0%	18	0.00	0
	0.0%	18	0.02	0
	0.0%	26	0.02	0
	0.0%	18	0.02	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%		0.00	0
	0.0%	6		0
70	0.0%		0.00	
			0.00	0
	0.0%	4		0
	0.0%	2		
		6	0.00	

		2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
80	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	4		0
	0.0%		0.00	0
	0.0%	2	0.00	0
		2	0.00	0
90	0.0%	2	0.00	
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2		0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
	0.0%	4	0.00	0
100			0.00	0
	0.0%	2	0.00	0
	0.0%	2		
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%			
		2		0
	0.0%	6		0
	0.0%			0

	0.0%			
110			0.00	
		2	0.00	
			0.00	0
	0.0%			
		2		
		2	0.00	0
	0.0%		0.00	0
	0.0%			0
120		2	0.00	
		2	0.00	
	0.0%	2	0.00	0
	0.0%			0
		2	0.00	
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
	0.0%	6	0.00	0
	0.0%		0.00	0
130		4	0.00	
	0.0%	2	0.00	0
	0.0%	4		0
	0.0%	6		0
	0.0%	2	0.00	0
		4	0.00	0
		2	0.00	0
	0.0%		0.00	0
	0.0%			
	0.0%	2	0.00	
140	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.0%	2		0
		2	0.00	0
	0.0%	6		0
	0.0%		0.00	
		2	0.00	0
	0.0%	2		0
			0.00	
150	0.0%	2	0.00	
	0.0%		0.01	0
		4		0
	0.0%		0.00	
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	
		4		0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
160	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%		0.00	
	0.0%	4		0
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%		0.00	0
170		2	0.00	
	0.0%	4	0.00	0

**Tabela 86:** 1000 Objetos por segundo Runtime Box OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60	0.1%	6	0.09	0
	0.0%	6	0.09	0
	0.0%	2	0.00	0
	0.0%	2	0.09	0
	0.0%	18	0.00	0
	0.0%	10	0.09	0
	0.0%	10	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	
	0.0%	2	0.01	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
	0.0%	4	0.00	0

80	0.0%	2	0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%		0.00	0
	0.0%	2	0.00	0
		2	0.00	0
90	0.0%		0.00	0
		2		0
	0.0%	4	0.00	0
	0.0%	6	0.00	
	0.0%	2		0
	0.0%	2	0.00	0
		2	0.00	0
	0.0%		0.00	
	0.0%	2	0.00	
	0.0%	2	0.00	
100	0.0%	4		
		4	0.00	
		2	0.00	
			0.00	0
			0.00	
			0.00	
			0.00	0
	0.0%		0.00	
			0.00	
				0
110	0.0%			
		2		
	0.0%			

		6		0
		6	0.00	
			0.00	
			0.00	0
	0.0%			
120		6		0
	0.0%			0
			0.00	0
		6	0.00	
	0.0%			
	0.0%			0
		2		0
	0.0%	2		
		2	0.00	0
	0.0%		0.01	0
130		2		
	0.0%	2		
		6	0.00	0
				0
	0.0%	4		0
		2	0.00	
	0.0%	4	0.00	0
		6	0.00	
			0.00	
		2		
140			0.00	
	0.0%			0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%			0
	0.0%	2	0.00	0
	0.0%	2		0
				0



	0.0%		0.00	0
	0.0%		0.00	0
150	0.0%			0
	0.0%	2	0.00	0
	0.0%	2		0
		2		
	0.0%	4		0
	0.0%	6		0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%		0.00	0
160	0.0%	2	0.00	
	0.0%	6	0.00	0
	0.0%	2		0
		6	0.00	0
		2	0.00	0
		2	0.00	0
		4	0.00	0
			0.00	0
		6		
		2	0.00	
170		4	0.00	
		6	0.00	

**Tabela 87:** 1000 Objetos por segundo Runtime Box OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	0.1%	672	0.09	0
	0.1%	672	0.05	0
	0.1%	30	0.07	0
60	0.1%	54	0.16	0
	0.0%	126	0.38	0
	0.0%	714	0.20	0
	0.1%	714	0.24	0
	0.1%	226	0.38	0
	0.1%	284	0.23	0
	0.1%	388	0.26	0
	0.0%	420	0.25	0
	0.0%	450	0.31	0
	0.1%	454	0.32	0
70	0.2%	446	0.26	0
	0.2%	470	0.39	0
	0.1%	516	0.34	0
	0.2%	466	0.38	0
	0.1%	438	0.28	0
	0.1%	444	0.38	0
	0.1%	478	0.38	0
	0.1%	472	0.38	0

	0.1%	482	0.25	0
	0.1%	544	0.32	0
80	0.1%	482	0.26	0
	0.1%	516	0.39	0
	0.1%	454	0.23	0
	0.1%	470	0.38	0
	0.1%	516	0.25	0
	0.1%	504	0.39	0
	0.1%	524	0.36	0
	0.1%	526	0.31	0
	0.1%	544	0.27	0
	0.1%	516	0.39	0
90	0.1%	516	0.39	0
	0.1%	528	0.28	0
	0.1%	516	0.39	0
	0.1%	544	0.31	0
	0.1%	516	0.39	0
	0.1%	516	0.39	0
	0.1%	576	0.31	0
	0.1%	526	0.28	0
	0.1%	534	0.34	0
	0.1%	544	0.29	0
100	0.1%	544	0.29	0
	0.0%	534	0.31	0
	0.0%	544	0.29	0
	0.1%	544	0.25	0
	0.0%	544	0.31	0
	0.0%	544	0.31	0
	0.1%	564	0.27	0
	0.1%	576	0.27	0
	0.0%	530	0.31	0
	0.0%	524	0.31	0
110	0.0%	540	0.29	0
	0.0%	518	0.30	0

	0.0%	576	0.29	0
	0.0%	576	0.27	0
	0.0%	518	0.27	0
	0.0%	564	0.29	0
	0.0%	576	0.31	0
	0.0%	558	0.29	0
	0.0%	576	0.28	0
	0.0%	576	0.29	0
120	0.0%	564	0.28	0
	0.0%	576	0.29	0
	0.0%	564	0.29	0
	0.0%	576	0.27	0
	0.0%	564	0.29	0
	0.0%	572	0.30	0
	0.0%	564	0.22	0
	0.1%	564	0.36	0
	0.0%	576	0.30	0
	0.0%	588	0.40	0
130	0.0%	564	0.34	0
	0.0%	570	0.40	0
	0.0%	580	0.39	0
	0.0%	588	0.40	0
	0.0%	588	0.34	0
	0.0%	576	0.40	0
	0.0%	578	0.40	0
	0.0%	640	0.32	0
	0.0%	588	0.35	0
	0.0%	588	0.35	0
140	0.0%	600	0.35	0
	0.0%	640	0.40	0
	0.0%	588	0.40	0
	0.0%	640	0.41	0
	0.0%	578	0.38	0
	0.0%	588	0.39	0

	0.0%	640	0.37	0
	0.0%	640	0.34	0
	0.0%	602	0.39	0
	0.0%	624	0.29	0
150	0.0%	624	0.38	0
	0.0%	640	0.35	0
	0.0%	640	0.41	
	0.0%	640	0.41	
	0.0%	716	0.34	
	0.0%	680	0.37	
	0.0%	690	0.34	
	0.0%	716	0.40	
	0.0%	704	0.33	
	0.0%	716	0.37	
160	0.0%	716	0.39	
	0.0%	676	0.39	
	0.0%	716	0.40	
	0.0%	656	0.38	
	0.0%	684	0.43	
	0.0%	720	0.38	
		716	0.38	
		716	0.36	
		714	0.36	
		714	0.37	
170		690	0.38	
		704	0.46	

**Tabela 88:** 1000 Objetos por segundo Runtime Box Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	3.4%	6	2.15	700000
	18.6%	3	1.92	1100000

	6.9%	1	0.87	500000
	6.9%	1	1.16	700000
	7.9%	1	1.37	900000
	10.1%	1	1.64	1100000
	43.0%	1	12.72	1300000
	17.5%	2	4.74	3000000
10	24.2%	1	3.45	1600000
	22.6%	1	2.99	1900000
	21.7%	1	3.33	2100000
	27.3%	1	5.20	2400000
	32.0%	1	6.82	2600000
	63.4%	1	15.02	2700000
	57.5%	2	9.07	5900000
	18.6%	1	4.98	3000000
	66.1%	1	15.64	3200000
	62.0%	2	9.33	6400000
20	43.6%	1	5.25	3200000
	31.8%	1	5.37	3400000
	58.3%	1	15.98	3700000
	50.6%	1	5.42	3700000
	32.2%	1	5.74	3800000
	28.5%	1	20.50	4000000
	69.5%	4	38.51	15800000
	73.7%	3	17.19	11500000
	69.3%	2	21.14	8100000
	42.6%	1	8.08	4099999.9999999995
30	75.3%	2	22.17	8500000
	51.7%	1	6.34	4400000
	64.5%	1	19.34	4700000
	68.3%	2	13.46	9500000
	79.3%	1	22.72	4700000
	44.7%	2	15.48	9700000
	74.2%	2	24.16	9400000
	69.4%	2	13.91	9300000

	75.8%	1	17.31	4900000
	54.7%	1	7.85	5300000
40	69.6%	1	19.90	5500000
	46.0%	2	16.12	11200000
	74.1%	2	28.29	10700000
	55.5%	2	25.78	10600000
	71.8%	3	41.96	15900000
	69.3%	4	42.87	21200000
	82.4%	3	44.14	15700000
	85.1%	3	42.79	15600000
	63.8%	3	36.19	16500000
	79.6%	4	42.03	21100000
50	84.1%	3	36.09	15700000
	78.9%	3	36.66	16100000.000000002
	73.6%	2	28.11	10900000
	62.2%	3	34.65	16600000.000000002
	70.9%	3	41.62	16800000
	73.4%	3	54.26	16700000
	83.3%	5	53.30	29100000
	88.6%	4	60.29	23700000
	74.3%	4	62.16	23500000
	85.8%	5	64.62	28300000
60	81.5%	4	44.56	22800000
	70.1%	4	57.98	23000000
	77.0%	5	75.47	29600000
	78.1%	5	75.53	31100000
	79.0%	6	85.49	38800000
	82.5%	6	104.22	40000000
	69.4%	6	99.49	40600000
	61.0%	6	89.60	40300000
	75.7%	6	92.78	41500000
	79.5%	6	96.69	42800000
70	69.6%	6	101.90	44400000
	65.9%	6	123.79	45500000

	80.1%	6	91.22	45100000
	84.8%	6	122.70	45600000
	69.4%	6	108.58	46500000
	65.9%	6	114.71	47400000
	82.8%	6	108.13	48300000
	83.0%	6	113.89	48700000
	73.2%	6	115.19	50600000
	67.5%	6	126.39	52000000
80	80.2%	6	119.76	53000000
	75.7%	6	132.62	54200000
	68.2%	6	132.78	55300000
	81.6%	6	138.18	55900000
	75.5%	6	136.91	56200000
	67.0%	6	128.95	57200000
	85.2%	6	136.83	57200000
	76.6%	6	142.23	57000000
	70.6%	6	143.20	57800000
	85.4%	6	142.29	59000000
90	76.5%	6	144.48	61800000
	73.7%	6	167.45	63700000
	87.4%	6	161.52	65500000
	77.6%	6	168.22	67000000
	72.4%	6	159.59	68100000
	84.7%	6	161.38	68500000
	78.3%	6	172.96	70900000
	75.4%	6	179.65	74600000
	88.9%	6	191.09	78600000
	81.4%	6	197.72	82300000
100	77.1%	6	208.15	85200000
	77.6%	6	209.51	86200000
	77.9%	6	221.25	88800000
	76.6%	6	214.05	91100000
	77.4%	6	217.48	94200000
	79.5%	6	230.95	93400000



	77.9%	6	233.62	95800000
	78.5%	6	241.57	97700000
	79.3%	6	250.62	98800000
	78.5%	6	240.67	101300000
110	79.9%	6	278.08	103100000
	78.8%	6	232.44	100500000
	79.2%	6	241.82	99200000
	78.2%	6	249.63	100100000
	78.0%	6	238.00	101400000
	80.8%	6	265.25	105700000
	81.6%	6	304.62	109300000
	81.7%	6	284.35	112000000
	83.1%	6	319.30	113500000
	80.6%	6	276.90	115200000
120	77.3%	5	238.94	98100000
	83.9%	6	318.65	118100000
	83.8%	6	338.48	116100000
	82.7%	6	306.51	115000000
	82.5%	6	328.02	115800000
	83.2%	6	314.96	116200000
	80.9%	6	293.36	116300000
	79.9%	6	272.27	118000000
	81.4%	6	301.64	118800000
	82.7%	6	305.58	121000000
130	84.4%	6	350.28	124000000
	84.5%	6	345.84	125700000
	83.8%	6	357.35	129000000
	82.3%	6	331.33	132600000
	85.1%	6	365.96	134900000
	83.2%	6	351.46	137100000
	83.7%	6	376.69	139500000
	84.8%	6	373.92	140900000
	82.6%	6	448.02	144300000
	85.6%	6	400.75	146400000

140	84.4%	6	386.14	147700000
	81.8%	6	431.20	149900000
	83.6%	6	373.78	149600000
	83.3%	6	382.06	153200000
	85.4%	6	385.50	152100000
	82.2%	6	364.31	151800000
	81.1%	6	408.53	152300000
	80.7%	6	432.30	152100000
	80.7%	6	418.69	153400000
	81.2%	6	423.06	152900000
150	85.5%	6	400.43	153500000
	85.1%	6	400.54	155700000
	80.1%	6	391.95	157300000
	79.8%	6	409.62	159300000
	81.4%	6	436.64	160800000
	81.2%	6	426.82	162100000
	78.4%	6	439.62	163300000
	77.8%	6	464.82	165600000
	81.5%	6	456.76	166400000
	90.0%	6	437.81	168200000
160	90.6%	6	423.76	169700000
	89.2%	6	470.32	173000000
	91.8%	6	515.77	176300000
	91.8%	6	496.61	178000000
	91.7%	6	484.52	179500000
	90.6%	6	490.63	181600000
	91.1%	6	524.69	181100000
	91.5%	6	518.52	182900000
	91.8%	6	492.23	182900000
	92.1%	6	519.63	185500000
170	89.0%	6	493.57	185200000
	61.7%	6	546.47	185600000

**Tabela 89:** 1000 Objetos por segundo Runtime Box Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.9%	6	0.30	480
	0.9%	3	0.12	240
	0.9%	1	0.12	80
	0.4%	6	0.13	80
	1.1%	6	0.30	80
	1.3%	1	0.19	480
	1.1%	6	0.14	480
	0.1%	6	0.15	80
10	0.1%	1	0.17	80
	0.9%	1	0.24	80
	0.9%	1	0.98	80
	1.1%	1	0.98	160
	1.7%	1	0.20	80
	0.5%	1	0.27	160
	1.7%	1	0.26	80
	1.1%	2	0.14	80
	1.4%	6	0.14	160
	0.8%	6	0.13	160
20	1.4%	1	0.17	80
	0.5%	1	0.30	240
	1.2%	2	0.30	160
	0.9%	1	0.86	400
	1.5%	2	0.40	160
	1.7%	1	0.29	80
	1.3%	6	0.24	80
	1.0%	6	0.31	160
	1.4%	4	0.13	160
	1.4%	6	0.28	160
30	1.4%	3	0.28	160
	0.2%	1	0.30	80
	0.8%	2	0.31	240

	0.7%	6	0.30	160
	0.7%	6	0.15	240
	0.4%	2	0.13	240
	1.0%	2	0.26	240
	0.7%	2	0.26	240
	0.5%	1	0.26	240
	0.7%	1	0.26	320
40	0.7%	3	0.46	240
	0.8%	3	0.51	240
	0.7%	2	0.43	320
	0.7%	2	0.26	320
	0.7%	4	0.26	240
	0.8%	3	0.26	240
	0.7%	3	0.26	240
	0.7%	3	0.57	320
	0.7%	3	0.26	320
	0.6%	3	0.26	240
50	1.1%	3	0.42	320
	0.9%	3	0.74	240
	0.7%	3	0.63	320
	0.9%	4	0.59	320
	1.0%	3	0.72	320
	0.6%	3	0.58	320
	0.8%	2	0.55	400
	0.6%	3	0.71	320
	0.6%	3	0.72	320
	0.6%	5	0.87	400
60	0.5%	4	0.82	400
	0.6%	5	0.87	480
	0.5%	4	0.87	480
	0.6%	5	0.89	480
	0.6%	6	0.87	480
	0.4%	6	0.87	480
	0.7%	6	0.83	480

	0.5%	6	0.82	480
	0.5%	6	0.87	480
	0.5%	6	0.86	480
70	0.5%	6	0.87	480
	0.5%	6	0.92	480
	0.6%	6	0.88	480
	0.5%	6	0.88	480
	0.5%	6	0.80	480
	0.6%	6	0.85	480
	0.5%	6	0.88	480
	0.4%	6	0.83	480
	0.5%	6	0.87	480
	0.3%	6	0.88	480
80	0.5%	6	0.88	480
	0.5%	6	0.87	480
	0.5%	6	0.86	480
	0.3%	6	0.87	480
	0.3%	6	0.88	480
	0.2%	6	0.86	400
	0.5%	6	0.86	480
	0.3%	6	0.86	480
	0.2%	6	0.90	480
	0.3%	6	0.98	480
90	0.5%	6	0.86	400
	0.2%	6	0.86	400
	0.2%	6	0.88	480
	0.4%	6	0.90	480
	0.2%	6	0.86	400
	0.2%	6	0.84	480
	0.5%	6	0.99	400
	0.2%	6	0.86	480
	0.2%	6	0.88	480
	0.2%	6	1.00	480
100	0.5%	6	0.93	480

	0.3%	6	0.99	480
	0.2%	6	0.86	400
	0.4%	6	0.88	480
	0.2%	6	0.99	400
	0.2%	6	0.99	480
	0.3%	6	0.86	480
	0.2%	6	0.89	480
	0.4%	6	0.99	480
	0.2%	6	0.89	480
110	0.2%	6	0.85	480
	0.4%	6	0.86	480
	0.2%	6	0.99	480
	0.4%	6	0.84	480
	0.2%	6	0.99	480
	0.2%	6	0.89	480
	0.2%	6	0.92	480
	0.4%	6	1.04	480
	0.3%	6	0.87	480
	0.3%	6	0.85	480
120	0.2%	6	0.90	480
	0.3%	6	0.94	480
	0.2%	6	0.99	480
	0.2%	6	0.86	480
	0.2%	6	0.91	480
	0.3%	6	1.00	480
	0.3%	6	0.89	480
	0.2%	6	0.92	480
	0.2%	6	0.71	480
	0.3%	6	0.87	480
130	0.2%	6	0.88	480
	0.3%	5	0.88	480
	0.2%	6	0.85	480
	0.2%	6	0.89	480
	0.2%	6	0.98	480

	0.2%	6	0.91	480
	0.2%	6	0.92	480
	0.2%	6	1.01	500
	0.2%	6	0.98	480
	0.2%	6	0.95	480
140	0.2%	6	0.93	480
	0.2%	6	0.98	480
	0.2%	6	0.88	480
	0.1%	6	0.98	480
	0.2%	6	1.01	480
	0.2%	6	1.03	480
	0.2%	6	0.92	480
	0.2%	6	0.98	480
	0.2%	6	0.94	480
	0.2%	6	0.96	480
150	0.1%	6	0.95	480
	0.2%	6	1.00	480
	0.2%	6	0.94	480
	0.2%	6	0.93	480
	0.1%	6	1.00	480
	0.1%	6	0.94	480
	0.2%	6	1.01	480
	0.1%	6	1.00	480
	0.2%	6	0.97	
	0.2%	6	1.04	
160	0.2%	6	1.00	
	0.1%	6	1.01	
	0.2%	6	0.92	
	0.2%	7	0.92	
	0.1%	6	0.95	
	0.2%	6	0.93	
	0.2%	6	0.97	
	0.1%	6	0.93	
	0.2%	6	0.99	

	0.1%	6	0.94	
170	0.2%	6	1.15	
	0.1%	6	0.96	



## **APÊNDICE B – TABELAS DE RESULTADOS - *CIRCLE COLLIDER***

### **B.1 *PRE-RUNTIME***

#### **B.1.1 UM OBJETO**

#### **B.1.2 DEZ OBJETOS**

#### **B.1.3 CINQUENTA OBJETOS**

#### **B.1.4 CEM OBJETOS**

#### **B.1.5 QUINHENTOS OBJETOS**

#### **B.1.6 MIL OBJETOS**

### **B.2 *RUNTIME***

#### **B.2.1 UM OBJETO POR SEGUNDO**

#### **B.2.2 DEZ OBJETOS POR SEGUNDO**

#### **B.2.3 CINQUENTA OBJETOS POR SEGUNDO**

#### **B.2.4 CEM OBJETOS POR SEGUNDO**

#### **B.2.5 QUINHENTOS OBJETOS POR SEGUNDO**

#### **B.2.6 MIL OBJETOS POR SEGUNDO**

## **APÊNDICE C – TABELAS DE RESULTADOS - *EDGE COLLIDER***

### **C.1 *PRE-RUNTIME***

#### **C.1.1 UM OBJETO**

#### **C.1.2 DEZ OBJETOS**

#### **C.1.3 CINQUENTA OBJETOS**

#### **C.1.4 CEM OBJETOS**

#### **C.1.5 QUINHENTOS OBJETOS**

#### **C.1.6 MIL OBJETOS**

### **C.2 *RUNTIME***

#### **C.2.1 UM OBJETO POR SEGUNDO**

#### **C.2.2 DEZ OBJETOS POR SEGUNDO**

#### **C.2.3 CINQUENTA OBJETOS POR SEGUNDO**

#### **C.2.4 CEM OBJETOS POR SEGUNDO**

#### **C.2.5 QUINHENTOS OBJETOS POR SEGUNDO**

#### **C.2.6 MIL OBJETOS POR SEGUNDO**

## **APÊNDICE D – TABELAS DE RESULTADOS - *POLYGON COLLIDER***

### **D.1 *PRE-RUNTIME***

#### **D.1.1 UM OBJETO**

#### **D.1.2 DEZ OBJETOS**

#### **D.1.3 CINQUENTA OBJETOS**

#### **D.1.4 CEM OBJETOS**

#### **D.1.5 QUINHENTOS OBJETOS**

#### **D.1.6 MIL OBJETOS**

### **D.2 *RUNTIME***

#### **D.2.1 UM OBJETO POR SEGUNDO**

#### **D.2.2 DEZ OBJETOS POR SEGUNDO**

#### **D.2.3 CINQUENTA OBJETOS POR SEGUNDO**

#### **D.2.4 CEM OBJETOS POR SEGUNDO**

#### **D.2.5 QUINHENTOS OBJETOS POR SEGUNDO**

#### **D.2.6 MIL OBJETOS POR SEGUNDO**