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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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Trabalho de Conclusão de Curso apresentado 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: Prof. Dr. Paulo Augusto Nardi

**CORNÉLIO PROCÓPIO**

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## 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 influenciam no funcionamento da física e manipulação de eventos. Devido a isso, a escolha de qual o tipo de colisão deve 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 apresenta 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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## APÊNDICE A – TABELAS DE RESULTADOS - *EDGE COLLIDER*

### A.1 *PRE-RUNTIME*

#### A.1.1 UM OBJETO

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.5%	1	0.08	0



80				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.0%	1	0.08	0
	0.5%	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%	1	0.00	0
	0.0%	1	0.01	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
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
100	0.0%	1	0.01	0
	0.0%			
	0.0%	1	0.00	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%			
	0.0%			
110				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	1.5%	1	0.26	32
60				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	0.5%	1	0.09	0
60				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	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
60				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.4%	6	0.44	0
	0.4%	1	0.07	0
	0.4%	2	0.13	0
	1.3%	1	0.08	0
	0.6%	1		
			0.08	0

	0.5%	1	0.08	0
	0.4%	1	0.08	0
10	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.5%	1	0.09	0
20	0.5%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.07	0
30	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.2%	1	0.07	0
	0.4%	1	0.07	0
	1.5%	1	0.08	0
	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.4%	1	0.08	0
40	0.5%	1	0.08	0
	0.4%	1	0.08	0

	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.6%	1	0.10	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.7%	1	0.11	0
50	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	2.3%	1	0.39	0
	1.1%	1	0.19	0
	0.6%	1	0.09	72
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
60	0.6%	1	0.09	0
	1.2%	1	0.19	0
	0.5%	1	0.08	0
	0.2%	1	0.08	0
	1.0%	1	0.18	0
	2.6%	1	0.15	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
70	0.4%	1	0.08	0
	0.4%	1	0.08	0
	0.4%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0

	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	1.5%	1	0.24	0
80	1.4%	1	0.24	0
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.15	3600
90	0.8%	1	0.14	3600
	0.8%	1	0.14	3600
	0.9%	1	0.15	3600
	0.5%	1	0.13	3600
	0.5%	1	0.13	3600
	4.8%	2	0.23	3600
	0.9%	1	0.16	3600
	1.0%	1	0.15	7100
	0.8%	1	0.15	3600
	0.9%	1	0.16	3600
100	0.9%	1	0.15	3600
	0.9%	1	0.14	3600
				3600
	0.9%	1	0.15	3600
	0.9%	1	0.15	
	0.9%	1	0.14	3600
	1.1%	1	0.19	3600
	0.8%	1	0.14	3600
	0.1%	1	0.02	3600
	0.0%	1	0.01	3600



110	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
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	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	0.01	0
	0.5%	2	0.03	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
130	0.0%	1	0.01	0
				0
	0.0%	2	0.01	0
	0.0%	1	0.00	0
	0.0%	1	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
140	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
	0.1%	1	0.02	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	0.01	0
	0.4%	2	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
160	0.0%	1	0.01	0
				0
	0.0%	1	0.00	0
	0.0%	1	0.01	
	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	0.00	0
170	0.0%	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
	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
180	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
	1.2%	2	0.06	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
190	0.0%	1	0.01	0
	0.0%	1	0.01	0
				0
	0.0%	1	0.01	0
	0.0%	1	0.01	
	0.0%	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
200	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	0.00	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
210	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
	0.4%	2	0.02	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
220	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
	0.0%	1	0.01	0
	0.0%	2	0.01	
				0
	0.0%	1	0.01	0
230	0.0%	1	0.01	
	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	0.01	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
240	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	0.03	0
	0.6%	2	0.03	0

	0.0%	1	0.01	0
	0.1%	1	0.02	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
250				0
	0.0%	1	0.01	0
	0.0%	1	0.01	
	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	0.00	0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
260	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

#### A.1.2 DEZ OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70				
	0.5%	1	0.09	0
80				
	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
100				

			0.00	
	0.0%	1	0.00	0
110				
	0.0%	1	0.00	0
120				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
90				
	0.5%	1	0.11	0
100				
260				



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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.6%	1	0.10	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
90	0.0%	3	0.00	0

	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	4	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%	4	0.00	0
	0.0%	4	0.00	0
100	0.0%	4	0.01	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	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	4	0.00	0
110	0.0%	4	0.00	0
	0.0%	3	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	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
120	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%	3	0.00	0

	0.0%	3	0.01	0
	0.1%	3	0.01	0
	0.0%	3	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
	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	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.01	0
140	0.0%	1	0.00	0
	0.0%	1	0.01	0
				0
				0
150				
260				


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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	1.5%	1	0.26	32
			0.00	
	0.0%	1		0
			0.00	
60				

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

100				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.6%	1	0.09	0
	0.6%			
60	0.6%			
		1	0.00	0
				0
				0
70				
		1	0.00	
	0.0%			
				0
		1	0.00	
80	0.0%			
				0
		1	0.00	
	0.0%			

90				
		1		
	0.0%	1		0
		1		
			0.00	
100	0.0%			0
		1		
110				
260				



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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.6%	1	0.10	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%	1	0.00	0
	0.0%	1	0.00	0
60			0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
	0.0%	1		
	0.0%	1		
		1		
			0.00	
			0.00	0
			0.00	0
70	0.0%		0.00	0

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

110				
260				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.2%	6	0.45	0
	1.1%	2	0.18	0
	1.4%	1	0.11	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.7%	1	0.10	0
	0.6%	1	0.09	0
10	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0

	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
20	0.5%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.09	0
	0.6%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
30	0.3%	1	0.10	0
	0.6%	1	0.12	0
	1.7%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.7%	1	0.11	0
40	0.5%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0

	0.5%	1	0.10	0
	0.7%	1	0.11	0
	0.6%	1	0.10	0
50	0.6%	1	0.10	0
	2.4%	1	0.42	72
	1.3%	1	0.21	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
	1.3%	1	0.22	0
	0.6%	1	0.11	0
60	0.7%	1	0.12	0
	0.4%	1	0.12	0
	1.1%	1	0.20	0
	2.4%	1	0.13	0
	0.7%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.12	0
	0.7%	1	0.11	0
	0.6%	1	0.11	0
70	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
	0.8%	1	0.13	0
	1.7%	1	0.29	3600
	1.8%	1	0.29	3600
	1.1%	1	0.19	3600
	1.1%	1	0.19	3600
80	1.0%	1	0.19	3600

	1.3%	1	0.19	7100
	1.0%	1	0.18	7100
	1.1%	1	0.18	7100
	1.1%	1	0.18	7100
	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
	1.1%	1	0.18	7100
	1.1%	1	0.18	10700
90	1.1%	1	0.18	10700
	1.2%	1	0.19	10700
	0.5%	1	0.17	10700
	3.7%	2	0.77	21300
	3.9%	1	0.20	10700
	1.1%	1	0.18	10700
	1.0%	1	0.19	10700
	1.3%	1	0.19	14200
	1.0%	1	0.19	14200
	1.2%	1	0.19	14200
100	1.0%	1	0.18	14200
	1.2%	1	0.19	14200
	1.1%	1	0.20	14200
	1.1%	1	0.20	14200
	1.2%	1	0.19	14200
	1.2%	1	0.19	10700
	1.1%	1	0.18	10700
	1.1%	1	0.19	14200
	1.2%	1	0.21	14200
	1.1%	1	0.18	14200
110	1.1%	1	0.18	14200
	1.1%	1	0.18	14200
	1.1%	1	0.18	14200
	1.0%	1	0.18	14200
	1.1%	1	0.18	14200

	1.0%	1	0.18	14200
	1.0%	1	0.17	14200
	1.0%	1	0.18	14200
	1.1%	1	0.17	14200
	1.0%	1	0.16	14200
120	1.0%	1	0.18	14200
	1.0%	1	0.17	14200
	0.5%	1	0.16	10700
	1.9%	1	0.36	10700
	6.1%	1	0.49	10700
	1.1%	1	0.16	10700
	1.1%	1	0.18	7100
	0.8%	1	0.16	7100
	1.0%	1	0.15	7100
	1.0%	1	0.17	7100
130	1.0%	1	0.17	7100
	1.0%	1	0.16	7100
	1.1%	1	0.18	7100
	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
	1.0%	1	0.17	7100
	0.9%	1	0.15	3600
	0.9%	1	0.17	3600
	1.0%	1	0.15	3600
	0.5%	1	0.09	0
140	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.4%	1	0.08	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0

	0.7%	1	0.11	0
150	0.5%	1	0.10	0
	0.6%	1	0.10	0
	0.3%	1	0.08	0
	0.6%	1	0.14	0
	1.2%	1	0.09	0
	0.6%	1	0.10	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
160	0.5%	1	0.08	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
170	0.5%	1	0.08	0
	0.6%	1	0.10	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
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
180	0.6%	1	0.10	0
	0.5%	1	0.08	0
	0.3%	1	0.09	0



	0.5%	1	0.11	0
	1.1%	1	0.07	0
	1.0%	1	0.16	0
	0.5%	1	0.09	0
	0.4%	1	0.07	0
	0.6%	1	0.08	0
	0.6%	1	0.10	0
190	0.5%	1	0.10	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.5%	1	0.08	0
	0.6%	1	0.09	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
200	0.9%	1	0.16	0
	1.2%	1	0.22	0
	0.5%	1	0.08	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
	0.4%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
210	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.3%	1	0.09	0
	0.3%	1	0.10	0
	1.6%	1	0.08	0
	0.5%	1	0.09	0
	0.6%	1	0.10	0

	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
220	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
230	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	0.10	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
240	0.5%	1	0.10	0
	0.5%	1	0.09	0
	0.3%	1	0.09	0
	0.5%	1	0.11	0
	3.0%	2	0.16	0
	0.5%	1	0.09	0
	0.4%	1	0.08	0
	0.6%	1	0.08	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
250	0.6%	1	0.10	0

	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.4%	1	0.07	0
	0.9%	2	0.16	0
	0.5%	1	0.09	0
260	0.4%	1	0.08	0
	0.6%	1	0.11	0
	0.3%	1	0.08	0
	1.0%	1	0.09	0
	0.6%	1	0.08	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.4%	1	0.09	0
	0.0%	1	0.09	0

### A.1.3 CINQUENTA OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
70				
	0.5%	2	0.09	0
	0.0%	4	0.00	0
80	0.0%			
		4	0.00	0
	0.0%			
90				
		4	0.00	0
	0.0%	4		
			0.00	0
	0.0%	4		0
			0.00	
100	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%	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%	4	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
130	0.0%	6	0.00	0
	0.0%	6		0
			0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.0%	6	0.00	0
140	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%	2	0.00	0
150	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%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
160	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%	4	0.00	0

170	0.0%	2	0.00	0
180				
270				

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

quadtreesTotal	totalPercent	calls	totalTime	gcMemory
10				
100				

	0.5%	2	0.08	
110				
120				
				0
	0.0%	2	0.00	
	0.0%	2		
130				
				0
			0.00	0
	0.0%	2		
			0.00	0
140	0.0%	2	0.00	
		2		



150				
				0
	0.0%		0.00	0
		2		
	0.0%		0.00	0
		2	0.00	
160				
	0.0%			0
		2	0.00	
	0.0%			0
		2	0.00	
170				
270				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.0%	2	0.09	0
	0.6%	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%	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	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0

90	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.1%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	24	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
100	0.0%	18	0.00	0
	0.0%	22	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.00	0
		22	0.00	0
	0.0%	20	0.01	0
	0.0%		0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	
	0.0%	22	0.00	0
110	0.0%	22		0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	26	0.00	0
	0.0%	26	0.00	0
	0.0%	26	0.00	0
	0.0%	28	0.01	0
	0.0%	28	0.00	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
120	0.1%	28	0.01	0
	0.4%	32	0.01	0
	0.0%	28	0.01	0
	0.0%	60	0.01	0

	0.0%	32	0.01	0
	0.1%	32	0.03	0
	0.0%	32	0.03	0
	0.2%	34	0.01	0
	0.1%	38	0.01	0
	0.1%	40	0.01	0
130	0.0%	36	0.01	0
	0.2%	48	0.01	0
	0.1%	44	0.02	0
	0.2%	46	0.01	0
	0.1%	48	0.01	0
	0.2%	46	0.02	0
	0.1%	48	0.02	0
	0.1%	46	0.02	0
	0.1%	48	0.04	0
	0.1%	48	0.02	0
140	0.1%	46	0.02	0
	0.1%	46	0.02	0
	0.1%	52	0.02	0
	0.1%	50	0.02	0
	0.1%	54	0.02	0
	0.1%	50	0.02	0
	0.1%	54	0.02	0
	0.1%	52	0.01	0
	0.1%	54	0.02	0
	0.1%	64	0.02	0
150	0.1%	54	0.02	0
	0.1%	54	0.02	0
	0.0%	54	0.02	0
	0.4%	54	0.02	0
	0.1%	54	0.02	0
	0.1%	56	0.02	0
	0.1%	58	0.03	0
	0.2%	60	0.02	0

	0.3%	56	0.02	0
	0.1%	60	0.02	0
160	0.1%	64	0.02	0
	0.3%	64	0.02	0
	0.2%	64	0.03	0
	0.2%	64	0.02	0
	0.2%	62	0.02	0
	0.2%	60	0.05	0
	0.3%	60	0.04	0
	0.3%	58	0.04	0
	0.3%	58	0.04	0
	0.3%	58	0.04	0
170	0.3%	48	0.04	0
	0.2%	58	0.04	0
	0.2%	62	0.05	0
	0.2%	62	0.04	0
	0.1%	60	0.02	0
	0.2%	58	0.03	0
	0.1%	56	0.02	0
	0.1%	52	0.03	0
	0.1%	48	0.03	0
	0.1%	48	0.02	0
180	0.1%	52	0.02	0
	0.0%	48	0.01	0
	0.0%	48	0.02	0
	0.5%	48	0.02	0
	0.0%	46	0.02	0
	0.0%	46	0.03	0
	0.0%	42	0.01	0
	0.0%	42	0.01	0
	0.0%	40	0.01	0
	0.0%	36	0.01	0
190	0.0%	36	0.00	0
	0.0%	28	0.01	0

	0.0%	22	0.00	0
	0.0%	22	0.01	0
	0.0%	20	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
		14	0.00	0
		14	0.00	0
200		10		0
		10		0
		4		0
		4		0
		4		0
				0
210				
270				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	1.4%	2	0.26	32
50				
	0.0%	4	0.00	0
60				
	0.0%	4	0.00	0

70				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
80				
	0.0%	4	0.01	0
	0.0%	4	0.01	0
90				
	0.0%	4	0.00	0
	0.0%	4	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%	4	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%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
120	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
	0.0%	4	0.00	0
130				
	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
	0.0%	4	0.00	0
140				
	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
150				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
160				
270				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.6%	2	0.11	0
60				
	0.0%	4	0.00	0
	0.0%			
70				

		4	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
80				
			0.01	
	0.0%	4	0.01	0
	0.0%	4	0.00	0
90				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
100				
	0.0%	2	0.00	0
	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%	4	0.00	0
110				
	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%	2		
			0.00	0
120	0.0%	2		0
			0.00	
	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
	0.0%	2	0.00	0
130	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%	2	0.00	0
140	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
150	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
160				
270				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50	1.0%	2	0.17	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
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%			0
	0.0%	4	0.01	0
60	0.0%	4	0.00	0
		4	0.00	0
		4	0.00	
		4	0.00	
	0.0%			
				0
	0.0%			
	0.0%	4	0.00	0
	0.0%			0
	0.0%	4	0.00	0
70	0.0%	4	0.00	0
		4	0.00	
	0.0%	4	0.01	0
	0.0%			0
	0.0%	4	0.00	0

	0.0%	4	0.00	0
	0.0%	4	0.00	0
		4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	
80	0.0%			0
		4	0.00	0
		4	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	
	0.0%			
		4		0
		4	0.00	0
	0.0%	4	0.01	0
	0.0%			
90	0.1%			
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.01	0
		4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%		0.00	0
	0.0%	2		0
	0.0%	2	0.00	
100	0.0%	4	0.00	0
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			0
		6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%			



	0.0%	4	0.00	0
110	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	
	0.0%	2	0.00	0
	0.0%	6	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
	0.2%	4	0.00	0
120	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
		4	0.00	0
130	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%			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%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
140	0.0%	2	0.00	0
	0.1%	6	0.00	0
	0.0%	4	0.00	0

	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
		2	0.00	0
150	0.0%	2	0.00	0
	0.0%	6	0.01	0
				0
	0.0%	8	0.00	0
		4	0.00	0
				0
		2	0.00	
				0
				0
160				0
270				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.3%	6	0.80	0
	4.8%	3	0.70	0
	4.8%	1	0.23	0
	2.0%	1	0.17	0

	1.3%	1	0.25	0
	1.3%	1	0.18	0
	1.2%	1	0.18	0
	1.0%	1	0.18	0
10	0.9%	1	0.16	0
	1.3%	1	0.23	0
	1.2%	1	0.17	0
	0.9%	1	0.16	0
	1.2%	1	0.18	0
	1.1%	1	0.22	0
	1.1%	1	0.16	0
	0.9%	1	0.16	0
	1.0%	1	0.16	0
	1.1%	1	0.20	0
20	1.1%	1	0.16	0
	0.9%	1	0.15	0
	0.9%	1	0.17	0
	0.9%	1	0.19	0
	1.1%	1	0.19	0
	1.0%	1	0.15	0
	0.9%	1	0.15	0
	0.9%	1	0.17	0
	1.2%	1	0.16	0
	1.0%	1	0.20	0
30	0.7%	1	0.17	0
	2.8%	1	0.16	0
	0.9%	1	0.17	0
	0.9%	1	0.19	0
	0.9%	1	0.19	0
	1.1%	1	0.16	0
	1.0%	1	0.16	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0

40	1.0%	1	0.15	0
	1.0%	1	0.19	0
	0.9%	1	0.19	0
	0.7%	1	0.20	0
	1.9%	1	0.17	0
	1.1%	1	0.20	0
	1.5%	1	0.20	0
	0.9%	1	0.15	0
	1.0%	1	0.15	0
	1.0%	1	0.20	0
50	1.2%	1	0.16	0
	1.0%	1	0.49	0
	2.7%	1	0.20	0
	2.3%	1	0.39	0
	1.1%	1	0.18	0
	1.1%	1	0.20	0
	1.2%	1	0.22	80
	1.2%	1	0.19	0
	1.1%	1	0.28	0
	2.2%	1	0.19	0
60	1.1%	1	0.23	0
	1.1%	1	0.25	0
	1.6%	1	0.25	0
	1.1%	1	0.25	0
	1.1%	1	0.16	0
	1.3%	1	0.16	0
	5.5%	1	0.25	0
	1.0%	1	0.18	0
	1.1%	2		80
	1.4%	1	0.24	
70	1.1%	1	0.25	0
		1	0.25	0
	1.9%	1	0.33	0
	1.6%	1	0.21	0

	1.6%		0.40	0
	1.8%	1	0.37	0
	1.6%	1	0.28	7100
	1.9%	1	0.36	7100
	1.5%	1	0.25	21300
	2.2%	1	0.36	7100
80	1.9%	1	0.32	21300
	1.9%	1	0.33	7100
	2.4%	1	0.28	21300
	1.9%	1	0.28	21300
	1.9%	1	0.36	21300
	1.5%	1	0.28	21300
	1.9%	1	0.27	21300
	2.0%	1	0.30	21300
	1.7%	1	0.31	21300
	1.6%	1	0.37	35500
90	2.1%	1	0.53	35500
	1.6%	1	1.22	35500
	1.6%	1	0.41	35500
	2.2%	1	0.39	64000
	1.9%	1	0.35	49800
	1.8%	1	0.45	49800
	2.6%	1	0.39	64000
	1.2%	1	0.39	64000
	12.9%	1	0.39	64000
	2.6%	1	0.44	64000
100	2.6%	1	0.39	64000
	3.1%	1	0.39	64000
	2.6%	2	0.47	64000
	2.5%	1	0.47	78200
	2.2%	1		78200
	2.7%	1	0.36	78200
	2.4%	1	0.39	64000
	2.3%	1	0.48	

	2.7%	1	0.38	64000
	2.1%	1	0.38	78200
110	2.4%	1	0.44	78200
		1	0.40	99500
	2.3%	1	0.51	78200
	2.1%	1	0.40	92400
	2.4%		0.46	92400
	2.3%	1	0.38	99500
	2.4%	1	0.46	99500
	2.3%	1	0.43	99500
	2.4%	1	0.51	99500
	2.4%	1	0.42	106600
120	2.5%	1	0.51	92400
	2.6%	1	0.51	92400
	2.2%	1	0.81	99500
	2.9%	1	1.58	113800
	2.6%	1	0.46	99500
	2.8%	1	0.66	227500
	2.7%	1	0.47	128000
	2.7%	1	0.53	113800
	2.5%	1	0.49	120900
	2.5%	1	0.56	135100
130	2.5%	1	0.66	142200
	2.5%	1	0.61	142200
	1.8%	1	0.66	156400
	3.1%	1	0.66	170600
	3.2%	1	0.66	184800
	22.0%	2	0.60	163500
	2.8%	1	0.64	170600
	2.8%	1	0.54	170600
	2.9%	1	0.57	192000
	2.8%	1	0.65	163500
140	3.2%	1	0.53	170600
	3.5%	1	0.53	184800

	3.2%	1	0.65	184800
	3.3%	1	0.56	184800
	3.2%	1	0.55	177700
	3.2%	1	0.54	192000
	3.2%	1	0.52	192000
	3.6%	1	0.51	199100
	3.7%	1	0.58	192000
	3.6%	1	0.52	192000
150	4.1%	1	0.55	206200
	3.5%	1	0.60	192000
	3.5%	1	0.50	199100
	3.7%	1	1.23	213300
	3.1%	1	0.93	213300
	3.4%	1	0.59	234600
	3.7%	1	0.63	234600
	3.6%	1	0.68	227500
	3.4%	1	0.62	234600
	3.1%	1	0.56	241700
160	3.1%	1	0.62	213300
	3.1%	1	0.60	220400
	3.3%	1	0.60	220400
	3.2%	1	0.75	206200
	3.4%	1	0.62	234600
	3.3%	1	0.68	220400
	2.0%	1	0.63	234600
	5.0%	1	0.67	220400
	13.8%	1	0.63	220400
	3.7%	1	0.66	213300
170	3.9%	1	0.62	199100
	3.8%	1	0.50	184800
	3.9%	1	0.47	184800
	3.3%	1	0.47	184800
	3.6%	1	0.45	170600
	3.6%	1	0.44	170600

	3.8%	1	0.44	170600
	4.3%	1	0.44	163500
	3.6%	1	0.52	163500
	4.2%	1	0.41	149300
180	3.8%	1	0.39	149300
	4.0%	1	0.39	142200
	3.9%	1	0.38	128000
	3.9%	1	0.42	128000
	3.8%	1	0.66	99500
	3.0%	1	0.33	78200
	2.9%	1	0.31	78200
	2.7%	1	0.29	71100
	2.6%	1	0.28	56900
	2.8%	1	0.27	56900
190	2.7%	1	0.29	49800
	2.5%	1	0.26	49800
	3.3%	1	0.31	49800
	2.3%	1	0.26	35500
	2.4%	1	0.24	35500
	2.2%	1	0.24	14200
	1.4%	1	0.23	14200
	1.9%	1	0.21	14200
	10.6%	1	0.21	0
	2.1%	1	0.13	0
200	1.8%	1	0.11	0
	1.8%	1	0.10	0
	1.7%	1	0.11	0
	1.5%	1	0.11	0
	1.7%	1	0.10	0
	1.6%	1	0.11	0
	1.8%	1	0.11	0
	1.3%	1	0.11	0
	1.8%	1	0.11	0
	1.4%	1	0.11	0



210	1.3%	1	0.10	0
	1.3%	1	0.12	0
	1.2%	1	0.12	0
	0.8%	1	0.10	0
	0.6%	1	0.15	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
220	0.6%	1	0.11	0
	0.6%	1	0.12	0
	0.6%	1	0.11	0
	0.6%	1	0.12	0
	0.6%	1	0.12	0
	0.6%	1	0.11	0
	0.3%	1	0.16	0
	0.5%	1	0.12	0
	2.6%	1	0.12	0
	0.7%	1	0.15	0
230	0.7%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.10	0
	0.7%	1	0.11	0
	0.6%	1	0.11	0
240	1.0%	1	0.11	0
	0.8%	1	0.11	0
	0.7%	1	0.11	0
	0.9%	1	0.22	0

	0.7%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.13	0
	0.6%	1	0.12	0
	0.6%	1	0.12	0
	0.6%	1	0.12	0
250	0.6%	1	0.12	0
	0.6%	1	0.13	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.3%	1	0.13	0
	1.2%	1	0.11	0
	1.8%	1	0.11	0
	0.7%	1	0.11	0
260	0.7%	1	0.10	0
	0.7%	1	0.10	0
	0.7%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.10	0
	0.8%	1	0.11	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.11	0
270	0.7%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.11	0
	0.7%	1	0.13	0
	0.6%	1	0.10	0

#### A.1.4 CEM OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.5%	8	0.09	0
80	0.0%	4	0.00	0
	0.0%			
		4	0.00	0
	0.0%			

90				
		14	0.00	0
	0.0%	14		
			0.00	0
	0.0%	4		0
100				
			0.00	
	0.0%	4	0.00	0
	0.0%	16	0.00	0
110				
	0.1%	10	0.01	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
120	0.0%	6	0.00	0
	0.0%	10	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
130	0.0%			
		8	0.00	0
	0.0%	8	0.00	0
	0.0%	8		0
			0.00	
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
140	0.0%	10	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%	2	0.00	0
	0.0%	4	0.00	0
150	0.0%	6	0.00	0
	0.0%			
		12	0.00	0
	0.0%			
		4	0.00	0
	0.0%	10	0.00	0
	0.0%	4		0
			0.00	

	0.0%	10	0.00	0
	0.0%	4	0.00	0
160				
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
170				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

90				
	0.6%	2	0.10	
100				
110				
				0
	0.0%	2	0.00	
	0.0%	2		
120				
				0
			0.00	0
	0.0%	2		
130				

			0.00	0
	0.0%	2	0.00	
		2		
				0
	0.0%		0.00	0
		2		
	0.0%		0.00	0
140		2	0.00	
	0.0%			0
	0.0%	2	0.00	0
		2	0.00	
150				
	0.0%			
		2	0.00	
				0
	0.0%			
160		2	0.00	
				0
	0.0%			



		2	0.00	
170				
290				

**Tabela 23:** 100 Objetos Pre-Runtime Edge OnCollisionS-  
tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				

	0.6%	8	0.10	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	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%	12	0.00	0
	0.0%	12	0.00	0
	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
90	0.0%	16	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.1%	16	0.01	0
	0.1%	30	0.03	0
	0.1%	30	0.02	0
	0.2%	28	0.01	0
	0.0%	28	0.02	0
	0.2%	32	0.02	0
100	0.2%	32	0.02	0
	0.1%	32	0.02	0
	0.0%	32	0.01	0
	0.1%	32	0.03	0
	0.1%	32	0.03	0
	0.1%	32	0.02	0
	0.1%	36	0.02	0
	0.1%	36	0.01	0
	0.1%	28	0.02	0
	0.1%	28	0.01	0

110	0.1%	28	0.02	0
	0.0%	40	0.03	0
	0.1%	44	0.01	0
	0.1%	44	0.01	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.01	0
	0.1%	50	0.01	0
	0.1%	50	0.03	0
	0.1%	52	0.02	0
120	0.1%	50	0.02	0
	0.1%	50	0.03	0
	0.1%	52	0.03	0
	0.1%	52	0.02	0
	0.1%	52	0.06	0
	0.2%	52	0.02	0
	0.1%	58	0.02	0
	0.2%	64	0.07	0
	0.1%	52	0.03	0
	0.1%	52	0.02	0
130	0.6%	62	0.03	0
	0.1%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	82	0.03	0
	0.1%	62	0.03	0
	0.1%	62	0.02	0
	0.2%	66	0.03	0
	0.1%	72	0.04	0
	0.1%	68	0.03	0
	0.2%	74	0.03	0
140	0.2%	82	0.03	0
	0.2%	82	0.04	0
	0.2%	92	0.04	0
	0.1%	76	0.03	0

	0.2%	76	0.06	0
	0.2%	80	0.04	0
	0.2%	78	0.04	0
	0.2%	80	0.05	0
	0.3%	84	0.05	0
	0.2%	80	0.05	0
150	0.2%	88	0.04	0
	0.3%	92	0.04	0
	0.3%	96	0.06	0
	0.2%	88	0.03	0
	0.2%	86	0.04	0
	0.4%	88	0.05	0
	0.2%	84	0.04	0
	0.2%	82	0.04	0
	0.3%	88	0.04	0
	0.2%	88	0.03	0
160	0.2%	90	0.06	0
	0.3%	88	0.05	0
	0.2%	90	0.06	0
	0.1%	96	0.04	0
	0.4%	94	0.04	0
	0.4%	92	0.05	0
	0.2%	98	0.05	0
	0.2%	98	0.05	0
	0.3%	96	0.05	0
	0.2%	94	0.06	
170	0.3%	100	0.04	0
	0.3%	100	0.06	0
	0.3%	96	0.07	0
	0.3%	96	0.05	0
	0.3%	96		0
	0.5%	100	0.05	0
	0.1%	100	0.06	0
	0.3%		0.03	0

		96	0.02	0
	0.2%	68	0.03	0
180	0.3%	96	0.03	0
	0.2%	92	0.04	0
	0.2%	88	0.03	0
	0.2%	84	0.03	0
	0.2%	84	0.03	0
	0.1%	84	0.03	0
	0.2%	82	0.02	0
	0.1%	78	0.02	0
	0.1%	74	0.02	0
	0.1%	68	0.02	0
190	0.1%	68	0.04	0
	0.1%	58	0.04	0
	0.0%	58	0.03	0
	0.1%	54	0.00	0
	0.2%	12	0.06	0
	0.3%	50	0.01	0
	0.1%	50	0.03	0
	0.5%	42	0.01	0
	0.1%	38	0.01	0
	0.1%	38	0.01	0
200	0.1%	32	0.01	
	0.0%	20	0.00	
	0.0%	20	0.01	
	0.0%	16	0.00	
	0.0%	12	0.00	
	0.0%	12		
	0.0%	6		
	0.0%	6		
210				

290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50	1.6%	2	0.26	32
	0.0%	4	0.00	0
	0.0%			
60				

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

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



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

170				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.6%		0.03	0
			0.10	
			0.03	
60				
		4		
	0.0%			0
70				
		4		
	0.0%			0
			0.00	0
		2		
	0.0%			
	0.0%		0.01	0
	0.0%		0.00	0
80	0.0%			0
		4		
	0.0%			0
		4		
			0.00	

90	0.0%			0
		4		
		2		
		4	0.03	
		4	0.00	
	0.0%			0
				0
		6		
	0.0%			
100				0
			0.00	
		4		
	0.0%		0.00	
		2		0
	0.0%			
			0.00	0
		4	0.00	
	0.0%	4	0.01	
	0.1%		0.00	0
110			0.00	0
		2		
	0.0%	2		
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	4	0.00	
				0
	0.0%		0.00	0
	0.0%	2		0
			0.00	
120	0.0%	2		0
			0.00	0
	0.0%	6		

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

			0.00	
	0.0%			0
160			0.00	
	0.0%			
	0.0%		0.00	
			0.00	
	0.0%			
			0.00	
170				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

50				
	0.0%	8	0.10	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%	2	0.00	0
	0.0%	2	0.00	0
		2	0.00	0
	0.0%	6		
60	0.0%	2	0.00	0
	0.1%		0.00	0
	0.0%	4	0.00	0
		4	0.00	0
			0.02	0
	0.0%			
	0.0%	4		
	0.1%	4	0.00	0
70	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%		0.00	0
	0.0%	6	0.00	0
	0.0%	6		
		6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	2	0.00	0
80	0.0%		0.00	0
		4	0.00	0
	0.0%	4	0.00	

	0.0%	4		0
		4	0.00	0
			0.01	0
	0.0%		0.01	
	0.0%	4		
	0.0%	4		0
		4	0.00	0
90		4	0.01	0
	0.0%	4		
	0.0%	4		
	0.0%		0.01	0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	4	0.00	0
	0.0%	2		0
	0.0%	8	0.03	0
100	0.0%	6	0.01	0
	0.0%		0.00	
	0.0%	4	0.00	0
		4	0.01	0
	0.2%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	8		0
	0.0%	8	0.00	0
110	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
		4	0.00	0
	0.0%	8	0.00	
	0.0%	6	0.00	0



	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
120	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
130	0.0%	8	0.00	0
	0.1%	8	0.00	0
	0.1%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6		0
	0.0%	4	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%		0.00	0
140		4	0.00	
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.1%	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%	6	0.00	0
150	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4		0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	6		0
160	0.0%		0.00	0
		4		0
	0.0%			
	0.0%	2		0
				0
	0.0%			0
				0
170				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	3.8%	6	1.75	0
	3.8%	2	0.75	0

	6.7%	2	0.62	0
	2.2%	1	0.30	0
	2.1%	1	0.34	0
	1.8%	1	0.28	0
	2.0%	1	0.38	0
	1.8%	1	0.30	0
10	2.3%	1	0.36	0
	1.8%	1	0.29	0
	1.6%	1	0.28	0
	2.0%	1	0.32	0
	2.5%	1	0.45	0
	1.8%	1	0.28	0
	1.6%	1	0.28	0
	1.6%	1	0.26	0
	1.9%	1	0.33	0
	1.6%	1	0.26	0
20				
	1.7%	1	0.29	0
	1.6%	1	0.28	0
	2.1%	1	0.36	0
	1.7%	1	0.28	0
	1.7%	1	0.28	0
	1.5%	1	0.26	0
	2.3%	1	0.35	0
	1.5%	1	0.26	0
	1.0%	1	0.27	0
30	3.6%	1	0.37	0
	2.2%	1	0.28	0
	1.5%	1	0.26	0
	2.0%	1	0.35	0
	1.7%	1	0.27	0
	1.6%	1	0.27	0
	2.3%	1	0.39	0
	2.0%	1	0.32	0

	1.7%	1	0.29	0
	2.2%	1	0.37	0
40	2.2%	1	0.37	0
	1.9%	1	0.31	0
	2.1%	1	0.39	0
	1.9%	1	0.30	0
	1.7%	1	0.27	0
	2.2%	1	0.35	0
	1.5%	1	0.26	0
	1.6%	1	0.26	0
	2.0%	1	0.34	0
	1.6%	1	0.27	0
50	3.8%	1	0.64	112
	3.0%	1	0.49	0
	1.6%	1	0.28	0
	1.8%	1	0.29	0
	2.2%	1	0.37	0
	1.9%	1	0.30	0
	1.7%	1	0.29	0
	2.9%	1	0.48	80
	1.8%	1	0.29	0
	1.6%	1	0.29	0
60	1.2%	1	0.36	0
	3.0%	1	0.38	0
	2.7%	1	0.31	0
	2.5%	1	0.37	0
	1.7%	1	0.29	0
	1.9%	1	0.33	0
	2.8%	1	0.46	80
	1.8%	1	0.32	0
	2.0%	1	0.35	0
	2.8%	1	0.45	0
70	2.2%	1	0.37	0
	2.1%	1	0.35	0

	2.7%	1	0.43	80
	1.9%	1	0.31	0
	1.7%	1	0.30	0
	3.7%	1	0.60	28400
	3.3%	1	0.52	28400
	2.3%	1	0.40	28400
	3.0%	1	0.48	28400
	2.5%	1	0.41	28400
80	2.5%	1	0.42	42700
	3.0%	1	0.49	42700
	2.4%	1	0.41	42700
	2.4%	1	0.41	42700
	3.1%	1	0.49	42700
	2.5%	1	0.41	42700
	2.5%	1	0.41	42700
	3.1%	1	0.55	56900
	3.1%	1	0.47	56900
	2.6%	1	0.46	56900
90	3.3%	1	0.54	56900
	1.8%	1	0.45	56900
	5.7%	1	0.74	106600
	8.7%	1	1.26	106600
	3.7%	1	0.57	106600
	5.0%	1	0.86	106600
	4.1%	1	0.70	113800
	5.2%	1	0.84	113800
	3.4%	1	0.57	113800
	7.5%	1	1.23	113800
100	5.1%	1	0.88	113800
	3.7%	1	0.59	128000
	4.4%	1	0.86	128000
	6.8%	1	1.16	128000
	4.6%	1	0.66	99500
	4.9%	1	0.78	99500

	4.0%	1	0.71	156400
	4.5%	1	0.74	156400
	4.7%	1	0.78	156400
	3.8%	1	0.64	142200
110	4.5%	1	0.72	177700
	4.5%	1	0.73	177700
	3.8%	1	0.65	177700
	3.8%	1	0.64	184800
	4.3%	1	0.72	177700
	3.9%	1	0.66	199100
	3.6%	1	0.61	184800
	4.9%	1	0.81	184800
	4.3%	1	0.69	206200
	4.2%	1	0.70	227500
120	5.2%	1	1.17	227500
	5.4%	1	0.67	184800
	3.1%	1	0.74	220400
	11.8%	1	1.53	220400
	5.8%	1	0.75	234600
	4.6%	1	0.76	220400
	4.8%	1	0.81	227500
	4.6%	1	0.75	241700
	4.9%	1	0.79	255900
	4.9%	1	0.81	255900
130	4.7%	1	0.76	270200
	5.0%	1	0.85	298600
	5.6%	1	0.93	291500
	5.5%	1	0.92	327000
	5.8%	1	0.95	334100
	5.6%	1	0.94	277300
	5.3%	1	0.91	284400
	5.4%	1	0.89	284400
	6.3%	1	1.04	319900
	5.3%	1	0.90	284400

140	5.1%	1	0.84	312800
	5.6%	1	0.93	334100
	5.3%	1	0.88	341300
	5.7%	1	0.90	341300
	5.4%	1	0.96	319900
	4.9%	1	0.84	319900
	6.4%	1	0.91	319900
	5.7%	1	0.95	312800
	5.1%	1	0.84	312800
	4.9%	1	0.83	312800
150	5.7%	1	0.94	355500
	5.0%	1	0.85	319900
	5.5%	1	0.90	334100
	3.9%	1	0.98	334100
	8.0%	1	1.07	334100
	7.8%	1	0.90	362600
	5.9%	1	1.00	362600
	5.6%	1	0.91	348400
	5.4%	1	0.92	369700
	5.5%	1	0.97	383900
160	5.4%	1	0.89	355500
	5.6%	1	0.97	369700
	6.3%	1	1.04	355500
	5.9%	1	0.96	348400
	5.1%	1	0.93	362600
	7.0%	1	1.03	355500
	5.7%	1	0.98	376800
	5.1%	1	0.93	341300
	5.7%	1	0.97	341300
170	4.7%	1	0.75	327000
	4.6%	1	0.74	312800
	4.1%	1	0.71	298600
	4.2%	1	0.68	298600

	3.8%	1	0.67	298600
	4.6%	1	0.72	291500
	3.8%	1	0.65	277300
	4.0%	1	0.64	263000
	3.6%	1	0.62	241700
	3.6%	1	0.57	241700
180	3.2%	1	0.54	206200
	3.3%	1	0.59	206200
	4.1%	1	0.66	192000
	3.7%	1	0.56	177700
	2.0%	1	0.55	177700
	9.2%	1	1.02	149300
	3.8%	1	0.44	135100
	2.5%	1	0.45	135100
	2.5%	1	0.40	113800
	2.2%	1	0.35	71100
190	2.1%	1	0.37	71100
	2.1%	1	0.34	56900
	1.9%	1	0.33	42700
	2.0%	1	0.33	42700
	1.7%	1	0.29	21300
	1.6%	1	0.26	21300
	1.3%	1	0.22	0
	1.1%	1	0.19	0
	1.1%	1	0.19	0
	1.1%	1	0.18	0
200	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.0%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.19	0



	1.0%	1	0.18	0
	1.0%	1	0.17	0
210	1.0%	1	0.17	0
	1.0%	1	0.18	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	0.7%	1	0.17	0
	2.7%	1	0.34	0
	1.5%	1	0.22	0
	1.2%	1	0.19	0
	2.0%	1	0.33	0
220	1.2%	1	0.20	0
	1.3%	1	0.21	0
	1.3%	1	0.22	0
	2.2%	1	0.38	0
	1.2%	1	0.20	0
	1.3%	1	0.22	0
	1.3%	1	0.22	0
	1.3%	1	0.21	0
	1.3%	1	0.24	0
	1.2%	1	0.19	0
230	1.0%	1	0.17	0
	1.0%	1	0.18	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.1%	1	0.18	0
	1.0%	1	0.17	0
240	1.0%	1	0.18	0
	1.2%	1	0.20	0

	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.0%	1	0.18	0
	1.0%	1	0.17	0
	0.7%	1	0.17	0
	1.8%	1	0.21	0
	1.2%	1	0.17	0
	1.0%	1	0.17	0
250	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.17	0
	1.0%	1	0.18	0
	1.0%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.2%	1	0.20	0
	1.1%	1	0.20	0
	1.6%	1	0.24	0
260	1.1%	1	0.19	0
	1.1%	1	0.19	0
	1.1%	1	0.20	0
	1.2%	1	0.19	0
	1.0%	1	0.19	0
	1.3%	1	0.19	0
	1.0%	1	0.18	0
	1.1%	1	0.17	0
	1.0%	1	0.18	0
	1.0%	1	0.17	0
270	1.0%	1	0.17	0
	1.1%	1	0.18	0
	1.0%	1	0.18	0
	1.0%	1	0.17	0
	1.1%	1	0.18	0
	0.9%	1	0.17	0

	1.1%	1	0.17	0
	0.7%	1	0.18	0
	1.6%	1	0.20	0
	1.6%	1	0.17	0
280	1.1%	1	0.18	0
	1.0%	1	0.17	0
	1.0%	1	0.18	0
	1.1%	1	0.18	0
	0.9%	1	0.17	0
	1.1%	1	0.17	0
	1.1%	1	0.19	0
	0.7%	1	0.20	0
	2.9%	1	0.23	0
	1.4%	1	0.20	0
290	1.3%	1	0.22	0
	1.1%	1	0.19	0
	1.2%	1	0.21	0
	1.2%	1	0.28	0
	0.0%	1	0.17	0

#### A.1.5 QUINHENTOS OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
70				
	0.5%	8	0.08	0
	0.0%	4	0.00	0
	0.0%			
80				
		4	0.00	0
	0.0%			
90		16	0.03	0
	0.1%	16		
			0.00	0
	0.0%	4		0
			0.00	
100	0.0%	6	0.00	0

	0.0%	16	0.00	0
	0.0%	10	0.00	0
110				
	0.0%	6	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
120				
	0.0%	16	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%			
		8	0.00	0
	0.0%	8	0.00	0
130	0.0%	8		0
			0.00	
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0

	0.0%	14	0.00	0
140	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%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	24	0.00	0
	0.0%	2	0.00	0
150	0.0%	14	0.00	0
	0.0%	12		
			0.00	0
	0.0%	12		0
			0.00	
	0.0%	12	0.02	0
	0.0%	4	0.00	0
	0.1%	8	0.02	0
	0.0%	16	0.00	0
160				
	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
	0.0%	10	0.00	
			0.00	0
	0.0%	8		

170			0.00	0
	0.0%	16		
	0.0%		0.00	0
		4		
	0.0%	24	0.00	0
	0.0%		0.00	0
		8		
	0.0%	8	0.00	0
	0.0%		0.00	0
180		24	0.00	
	0.0%			0
		4	0.00	
	0.0%	4		0
	0.0%	18	0.00	0
			0.00	
	0.0%	8	0.00	0
	0.0%	20		0
	0.0%		0.00	
	0.0%	10	0.00	0
190		8		0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%		0.00	
	0.0%	14	0.00	0
		14	0.00	0
	0.0%	8		0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
200	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
	0.0%	10	0.00	0

	0.1%	8	0.00	0
	0.3%	10	0.00	0
	0.0%	34	0.01	0
	0.0%	14	0.05	0
	0.0%	34	0.00	0
	0.0%	4	0.00	0
210	0.0%	34	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.01	0
	0.0%	34	0.00	0
	0.0%	4	0.01	0
	0.0%	24	0.00	0
	0.1%		0.01	0
	0.0%	20	0.00	0
	0.0%	10	0.02	0
220		24	0.02	
	0.0%	16	0.00	0
	0.0%	22	0.01	0
	0.0%			0
	0.0%	16	0.00	0
	0.0%	16	0.00	
	0.0%	16	0.01	0
			0.00	
	0.0%		0.00	
	0.0%			
230	0.0%	6	0.00	0
			0.00	0
		14		0
		16		
	0.0%			0
		16	0.00	
	0.0%			0
		14	0.00	0



	0.0%	16	0.00	
		2	0.00	0
240	0.0%	16		0
	0.0%		0.00	0
	0.0%	10		0
	0.0%	24	0.00	0
	0.0%		0.00	
		20	0.00	0
	0.0%	8	0.00	0
		10	0.00	
	0.0%	18		0
	0.0%	18	0.02	0
250	0.0%	18	0.01	0
	0.0%	16		0
	0.0%	22	0.00	0
	0.0%	20	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	34	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
260	0.0%	12	0.01	0
	0.0%	10	0.00	0
	0.0%	24	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	14	0.01	0
	0.1%	24	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
270	0.0%	30	0.01	0
	0.1%		0.00	0

	0.1%	10	0.00	
		30	0.01	0
	0.1%	40	0.00	0
	0.0%		0.00	0
	0.1%	18	0.02	
	0.1%	4		0
			0.00	0
	0.0%		0.02	
280	0.0%		0.00	
			0.02	
			0.00	
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
90				
	0.6%	2	0.00	0
100				
	0.0%	2	0.00	0
	0.0%			
110				
		2	0.00	0
	0.0%			

120		2	0.01	0
		2		
	0.0%		0.00	0
				0
130				
	0.0%	2	0.00	
			0.00	0
	0.0%	2		
			0.00	
	0.0%	2		0
140	0.0%	2	0.00	
	0.0%		0.00	
	0.0%			
				0
		2		
			0.00	
	0.0%			
				0
150		2		
		2		
	0.0%			

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

				0
				0
	0.0%	2	0.00	0
190	0.0%	2	0.00	
			0.00	
				0
			0.00	
	0.0%			0
			0.00	
		2		
	0.0%	2		0
200	0.0%			0
		2	0.00	
	0.0%	4		0
	0.0%		0.00	0
	0.0%		0.00	
		2		
				0
	0.0%	8		
	0.0%	2	0.00	0
210		2	0.00	0
	0.0%			0
		6	0.00	
	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%	4	0.00	0
	0.0%	8	0.00	0
220		8		

	0.0%		0.00	0
	0.0%	4	0.00	0
		16	0.00	
	0.0%			0
			0.00	
	0.0%		0.00	
		2		0
	0.0%		0.00	
		2		0
230	0.0%		0.00	
			0.00	
			0.00	
		4		0
	0.0%			0
		2	0.00	
240	0.0%		0.00	
		4		0
	0.0%			
		2	0.00	0
			0.00	0
	0.0%			
	0.0%	2	0.00	0
		2		0
	0.0%	10		0
250	0.0%	8	0.00	
	0.0%	4		0
	0.0%	14	0.00	0
	0.0%			0
			0.00	0

		2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
			0.00	
260	0.0%	2	0.00	
	0.0%	16	0.00	0
				0
	0.0%	2		0
			0.00	0
	0.0%	18	0.00	0
		8	0.00	0
	0.0%		0.00	
	0.0%	14	0.00	0
				0
270	0.0%	2	0.00	
	0.0%	2	0.00	0
				0
			0.00	0
			0.00	0
			0.00	0
			0.00	0
			0.00	0
280			0.00	0
			0.00	0
			0.00	



290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.0%	8	0.10	0
	0.0%	8	0.00	0
	0.0%	8	0.09	0
	0.0%	8	0.00	0
	0.0%	12	0.10	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%	16	0.00	0
	0.0%	16	0.00	0
	0.1%	16	0.00	0
	0.1%	16	0.00	0
	0.1%	30	0.00	0
	0.1%	30	0.00	0
90	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.0%	40	0.00	0
	0.1%	38	0.00	0
	0.1%	42	0.00	0
	0.1%	42	0.00	0
	0.1%	30	0.02	0
	0.1%	42	0.01	0
100	0.0%	30	0.01	0
	0.1%	42	0.02	0
	0.1%	30	0.01	0
	0.1%	42	0.01	0
	0.1%	46	0.01	0
	0.1%	46	0.01	0
	0.2%	42	0.01	0
	0.1%	52	0.01	0
	0.2%	52	0.01	0
	0.1%	50	0.02	0
110	0.2%	56	0.01	0
	0.2%	60	0.01	0
	0.1%	78	0.01	0
	0.1%	78	0.01	0
	0.2%	68	0.01	0
	0.2%	78	0.01	0

	0.2%	78	0.01	0
	0.2%	60	0.02	0
	0.1%	58	0.01	0
	0.8%	148	0.01	0
120	0.3%	78	0.01	0
	0.2%	74	0.02	0
	0.4%	78	0.03	0
	0.3%	82	0.03	0
	0.4%	116	0.03	0
	0.4%	86	0.03	0
	0.3%	92	0.02	0
	0.2%	100	0.02	0
	0.4%	116	0.03	0
	0.3%	116	0.02	0
130	0.2%	100	0.02	
	0.3%	98	0.03	0
	0.4%	98	0.03	0
	0.4%	116	0.03	0
		106	0.03	
	0.2%	104	0.04	0
	0.3%		0.13	0
	0.3%	110	0.05	0
	0.7%	116	0.08	0
	0.5%	116	0.04	0
140		230	0.05	0
	0.3%		0.05	0
	0.3%	114	0.03	0
	0.5%	106	0.05	0
	0.7%	104	0.06	0
	0.2%	114	0.05	0
	0.7%	122	0.05	0
	0.3%	112	0.04	0
	0.3%	118	0.04	0
	0.3%	114	0.04	0

150	0.6%	122	0.06	0
	0.7%	120	0.04	0
	0.4%	122	0.05	0
	0.4%	118	0.04	0
	0.2%	118	0.46	0
	0.8%	128		0
	0.6%	122	0.05	0
	0.4%	128	0.06	0
	0.3%	122	0.06	0
	0.4%	122	0.46	0
160	0.8%	124	0.04	0
	1.0%	124		0
	0.5%	122	0.46	0
	0.3%	122	0.06	0
	0.4%	122	0.06	0
	0.2%	118	0.08	0
	0.2%	124	0.04	0
	0.4%	122	0.04	0
	0.2%	118	0.05	0
	0.4%	134	0.46	0
170	0.3%	132	0.04	0
	0.3%	128	0.10	0
	0.3%	132	0.06	0
	0.4%	124	0.17	0
	0.2%	128	0.10	0
	0.4%	124	0.06	0
	0.4%	124	0.08	0
	0.2%	124	0.05	0
	0.3%	140	0.11	0
	0.4%	132	0.10	0
180	0.3%	134	0.10	0
	1.0%	162	0.07	0
	0.5%	142	0.05	0
	0.3%	134	0.07	0

	0.3%	128	0.05	0
	0.4%	148	0.17	0
	0.5%	140	0.16	0
	0.3%	144	0.06	0
	0.3%	146	0.05	0
	0.4%	146	0.05	0
190	0.4%	164	0.04	0
	0.8%	148	0.08	0
	0.6%	162	0.06	0
	0.4%	254	0.05	0
	0.7%	162	0.05	0
	0.3%	176	0.05	0
	0.6%	174	0.06	0
	0.5%	184	0.06	0
	0.6%	178	0.05	0
	1.9%	186	0.08	0
200	0.5%	204	0.06	0
	0.6%	282	0.08	0
	0.6%	210	0.09	0
	0.7%	226	0.11	0
	0.6%	234	0.07	0
	0.8%	230	0.07	0
	0.8%	236	0.05	0
	0.7%	254	0.06	0
	0.7%	254	0.08	0
	1.0%	252	0.07	0
210	0.7%	264	0.06	0
	0.4%	270	0.06	0
	1.3%	274	0.07	0
	1.9%	264	0.09	0
	1.9%	550	0.07	0
	1.0%	282	0.11	0
	0.8%	282	0.11	0
	0.5%	286	0.07	0

	0.8%	298	0.07	0
	1.0%	290	0.08	0
220	0.8%	298	0.08	0
	1.0%	290	0.10	0
	1.1%	310	0.10	0
	0.9%	294	0.09	0
	0.7%	308	0.13	0
	0.9%	600	0.11	0
	3.4%	296	0.11	0
	0.7%	276	0.12	0
	0.9%	262	0.13	0
	0.7%	244	0.12	0
230	0.7%	240	0.11	0
	0.7%	232	0.11	0
	0.6%	234	0.13	0
	0.7%	210	0.14	0
	0.6%	216	0.13	0
	0.6%	212	0.40	0
	0.6%	224	0.12	0
	0.6%	220	0.27	0
	0.5%	218	0.12	0
	0.5%	208	0.13	0
240	0.9%	392	0.13	0
	0.5%	198	0.15	0
	0.5%	198	0.13	0
	0.4%	204	0.15	0
	0.8%	200	0.17	0
	1.5%	188	0.14	0
	0.5%	178	0.46	0
	0.5%	182	0.08	0
	0.5%	186	0.41	0
	0.4%	198	0.46	0
250	0.5%	208	0.13	0
	0.4%	208	0.13	0

	0.6%	222	0.12	0
	0.4%	226	0.13	0
	0.6%	252	0.12	0
	0.6%	248	0.10	0
	0.7%	256	0.10	0
	0.6%	264	0.10	0
	0.7%	270	0.11	0
	0.6%	286	0.12	0
260	0.5%	264	0.10	0
	0.7%		0.11	
	0.6%	276	0.09	0
	0.6%	286	0.12	0
	0.8%	288	0.10	0
	0.6%	582	0.12	0
	0.6%	310	0.09	0
	0.7%	292	0.16	0
		288	0.12	0
	0.6%	286	0.22	0
270	0.8%	284	0.20	0
	0.4%	270	0.08	0
	2.1%	262	0.08	0
	1.3%	240	0.08	0
	1.0%	226	0.09	0
	0.8%	226	0.08	0
	0.8%	210	0.10	0
	0.8%	204	0.08	0
	0.8%	188	0.08	0
	0.7%	172	0.12	0
280	0.8%	314	0.08	0
	1.0%		0.12	0
	0.8%	268	0.08	0
	0.6%	122	0.10	
	0.7%		0.14	0
	0.6%	104	0.11	0

	0.3%	96	0.09	
	1.2%	96	0.12	0
		70	0.11	0
	0.6%	58	0.10	0
290	0.4%	46	0.11	0
			0.11	0
	0.3%		0.11	0
	0.3%		0.12	
	0.2%		0.13	

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.0%	8	0.10	0
	0.0%	8	0.00	0
	0.0%	8	0.09	0
	0.0%	8	0.00	0
	0.0%	12	0.10	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%	16	0.00	0
	0.0%	16	0.00	0
	0.1%	16	0.00	0
	0.1%	16	0.00	0
	0.1%	30	0.00	0
	0.1%	30	0.00	0
90	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.1%	34	0.00	0
	0.0%	40	0.00	0
	0.1%	38	0.00	0
	0.1%	42	0.00	0
	0.1%	42	0.00	0
	0.1%	30	0.02	0
	0.1%	42	0.01	0
100	0.0%	30	0.01	0
	0.1%	42	0.02	0
	0.1%	30	0.01	0
	0.1%	42	0.01	0
	0.1%	46	0.01	0
	0.1%	46	0.01	0
	0.2%	42	0.01	0
	0.1%	52	0.01	0
	0.2%	52	0.01	0
	0.1%	50	0.02	0
110	0.2%	56	0.01	0
	0.2%	60	0.01	0
	0.1%	78	0.01	0

	0.1%	78	0.01	0
	0.2%	68	0.01	0
	0.2%	78	0.01	0
	0.2%	78	0.01	0
	0.2%	60	0.02	0
	0.1%	58	0.01	0
	0.8%	148	0.01	0
120	0.3%	78	0.01	0
	0.2%	74	0.02	0
	0.4%	78	0.03	0
	0.3%	82	0.03	0
	0.4%	116	0.03	0
	0.4%	86	0.03	0
	0.3%	92	0.02	0
	0.2%	100	0.02	0
	0.4%	116	0.03	0
	0.3%	116	0.02	0
130	0.2%	100	0.02	
	0.3%	98	0.03	0
	0.4%	98	0.03	0
	0.4%	116	0.03	0
		106	0.03	
	0.2%	104	0.04	0
	0.3%		0.13	0
	0.3%	110	0.05	0
	0.7%	116	0.08	0
	0.5%	116	0.04	0
140		230	0.05	0
	0.3%		0.05	0
	0.3%	114	0.03	0
	0.5%	106	0.05	0
	0.7%	104	0.06	0
	0.2%	114	0.05	0
	0.7%	122	0.05	0

	0.3%	112	0.04	0
	0.3%	118	0.04	0
	0.3%	114	0.04	0
150	0.6%	122	0.06	0
	0.7%	120	0.04	0
	0.4%	122	0.05	0
	0.4%	118	0.04	0
	0.2%	118	0.46	0
	0.8%	128		0
	0.6%	122	0.05	0
	0.4%	128	0.06	0
	0.3%	122	0.06	0
	0.4%	122	0.46	0
160	0.8%	124	0.04	0
	1.0%	124		0
	0.5%	122	0.46	0
	0.3%	122	0.06	0
	0.4%	122	0.06	0
	0.2%	118	0.08	0
	0.2%	124	0.04	0
	0.4%	122	0.04	0
	0.2%	118	0.05	0
	0.4%	134	0.46	0
170	0.3%	132	0.04	0
	0.3%	128	0.10	0
	0.3%	132	0.06	0
	0.4%	124	0.17	0
	0.2%	128	0.10	0
	0.4%	124	0.06	0
	0.4%	124	0.08	0
	0.2%	124	0.05	0
	0.3%	140	0.11	0
	0.4%	132	0.10	0
180	0.3%	134	0.10	0

	1.0%	162	0.07	0
	0.5%	142	0.05	0
	0.3%	134	0.07	0
	0.3%	128	0.05	0
	0.4%	148	0.17	0
	0.5%	140	0.16	0
	0.3%	144	0.06	0
	0.3%	146	0.05	0
	0.4%	146	0.05	0
190	0.4%	164	0.04	0
	0.8%	148	0.08	0
	0.6%	162	0.06	0
	0.4%	254	0.05	0
	0.7%	162	0.05	0
	0.3%	176	0.05	0
	0.6%	174	0.06	0
	0.5%	184	0.06	0
	0.6%	178	0.05	0
	1.9%	186	0.08	0
200	0.5%	204	0.06	0
	0.6%	282	0.08	0
	0.6%	210	0.09	0
	0.7%	226	0.11	0
	0.6%	234	0.07	0
	0.8%	230	0.07	0
	0.8%	236	0.05	0
	0.7%	254	0.06	0
	0.7%	254	0.08	0
	1.0%	252	0.07	0
210	0.7%	264	0.06	0
	0.4%	270	0.06	0
	1.3%	274	0.07	0
	1.9%	264	0.09	0
	1.9%	550	0.07	0

	1.0%	282	0.11	0
	0.8%	282	0.11	0
	0.5%	286	0.07	0
	0.8%	298	0.07	0
	1.0%	290	0.08	0
220	0.8%	298	0.08	0
	1.0%	290	0.10	0
	1.1%	310	0.10	0
	0.9%	294	0.09	0
	0.7%	308	0.13	0
	0.9%	600	0.11	0
	3.4%	296	0.11	0
	0.7%	276	0.12	0
	0.9%	262	0.13	0
	0.7%	244	0.12	0
230	0.7%	240	0.11	0
	0.7%	232	0.11	0
	0.6%	234	0.13	0
	0.7%	210	0.14	0
	0.6%	216	0.13	0
	0.6%	212	0.40	0
	0.6%	224	0.12	0
	0.6%	220	0.27	0
	0.5%	218	0.12	0
	0.5%	208	0.13	0
240	0.9%	392	0.13	0
	0.5%	198	0.15	0
	0.5%	198	0.13	0
	0.4%	204	0.15	0
	0.8%	200	0.17	0
	1.5%	188	0.14	0
	0.5%	178	0.46	0
	0.5%	182	0.08	0
	0.5%	186	0.41	0

	0.4%	198	0.46	0
250	0.5%	208	0.13	0
	0.4%	208	0.13	0
	0.6%	222	0.12	0
	0.4%	226	0.13	0
	0.6%	252	0.12	0
	0.6%	248	0.10	0
	0.7%	256	0.10	0
	0.6%	264	0.10	0
	0.7%	270	0.11	0
	0.6%	286	0.12	0
260	0.5%	264	0.10	0
	0.7%		0.11	
	0.6%	276	0.09	0
	0.6%	286	0.12	0
	0.8%	288	0.10	0
	0.6%	582	0.12	0
	0.6%	310	0.09	0
	0.7%	292	0.16	0
		288	0.12	0
	0.6%	286	0.22	0
270	0.8%	284	0.20	0
	0.4%	270	0.08	0
	2.1%	262	0.08	0
	1.3%	240	0.08	0
	1.0%	226	0.09	0
	0.8%	226	0.08	0
	0.8%	210	0.10	0
	0.8%	204	0.08	0
	0.8%	188	0.08	0
	0.7%	172	0.12	0
280	0.8%	314	0.08	0
	1.0%		0.12	0
	0.8%	268	0.08	0

	0.6%	122	0.10	
	0.7%		0.14	0
	0.6%	104	0.11	0
	0.3%	96	0.09	
	1.2%	96	0.12	0
		70	0.11	0
	0.6%	58	0.10	0
290	0.4%	46	0.11	0
			0.11	0
	0.3%		0.11	0
	0.3%		0.12	
	0.2%		0.13	

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.5%	4	0.10	0
60				
	0.1%	8	0.00	0
	0.1%			
70		8	0.00	0
	0.0%			
		8	0.00	0
	0.0%	8	0.01	0
	0.0%	4		0
80				
			0.00	
	0.0%	8	0.00	0
	0.0%	8	0.00	0



90				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.01	0
100				
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
110	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%			
		8	0.00	0
	0.0%	14		
			0.01	0
	0.0%	14		0
			0.00	
	0.0%	4	0.00	0
120				
	0.0%	4	0.00	0
	0.0%	12	0.00	0

	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.1%	8	0.02	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
130				
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%			
		8	0.00	0
	0.0%			
		4	0.00	0
140	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%	6	0.00	0
	0.0%	16	0.01	0
150	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.02	0
	0.0%	8	0.01	0
	0.2%	8	0.03	0

	0.0%	4	0.00	0
	0.0%			
160				
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	4	0.00	0
	0.0%	2		0
			0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
170				
	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
180				
	0.0%	10	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
190	0.0%	4	0.00	0
	0.0%	8	0.01	0

	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.1%	10	0.02	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
200	0.0%	12	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
210	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%	8	0.01	0
	0.0%	12	0.00	0
	0.0%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	14	0.01	0
220	0.0%			
		12	0.01	0
	0.0%			
		2	0.00	0
	0.0%	4		

			0.01	0
	0.0%	4	0.01	0
	0.0%	8	0.00	0
230				
	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%	12	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
240	0.0%	4	0.00	0
	0.0%	14	0.01	0
	0.0%			
		6	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.01	0
	0.0%	6	0.01	0
	0.0%	16	0.00	0
	0.0%	10	0.01	0
	0.0%	14	0.01	0
250	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.1%	14	0.02	0
	0.0%	16	0.01	0
	0.0%	2	0.00	0

260	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.01	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	20	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.01	0
270	0.0%	16	0.01	0
	0.0%	6	0.00	0
	0.0%	12	0.01	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
280				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50	0.6%	4	0.10	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
			0.01	0
	0.1%	8	0.00	
	0.0%	2		0
	0.0%	2	0.01	0
	0.0%	8	0.00	0
60	0.0%	8	0.01	
		16	0.01	
				0
	0.0%			0
	0.1%	8	0.00	0
	0.1%	12	0.02	0
	0.1%	8	0.02	0
		8	0.00	0
70	0.0%	8	0.01	
	0.0%	8	0.02	0
	0.0%			0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
		12	0.00	0
	0.0%	4	0.00	
	0.1%			0
	0.0%	8	0.00	0
80		8	0.01	0
		8	0.00	0
	0.0%		0.00	
	0.0%			
	0.0%	8		0
	0.0%	8	0.00	0
		8	0.00	0
		16		
	0.0%			
	0.0%		0.00	0
90	0.1%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.04	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
		16	0.01	0
	0.0%	16	0.01	
	0.0%			0
100	0.0%	8	0.01	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	0.01	0
	0.0%	14	0.01	0
	0.0%	14	0.01	0
	0.0%	8	0.00	



		6		0
110	0.0%		0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
120	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.02	0
	0.1%	22	0.01	0
	0.0%	12	0.00	0
	0.0%	6	0.01	0
	0.0%	12	0.01	0
	0.0%	18	0.00	0
	0.0%	12	0.01	0
130	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
		16	0.01	0
	0.0%	8	0.00	
	0.0%			0
	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.01	
140		4	0.00	0
	0.0%			0
	0.0%	12	0.01	0

	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.01	
		16	0.00	0
	0.0%	20		0
	0.0%		0.00	0
	0.0%	6	0.00	0
150	0.0%	16	0.01	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
	0.1%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
160		4		
	0.0%		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	0.01	0
	0.0%	4	0.00	0
		4	0.01	0
170	0.0%	4	0.00	
	0.0%			0
		8	0.00	0
	0.0%	12	0.01	
				0
	0.0%	6	0.01	
	0.0%			0

	0.0%	4	0.00	0
		8	0.00	
	0.0%			0
180	0.0%	8	0.00	
		10	0.00	0
	0.0%	4		0
			0.00	
	0.0%	10		0
	0.0%		0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	
		12	0.00	0
190	0.0%			0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	8	0.01	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
200	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.02	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
210	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%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	10	0.01	0
		2		0
220	0.0%	12	0.01	0
		14		0
	0.0%		0.00	0
		12		0
				0
	0.0%		0.01	0
	0.0%		0.01	
		4		0
	0.0%	8	0.00	
230	0.0%		0.00	
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
		4		
	0.1%	4	0.01	0
	0.0%		0.00	0
		2		0
	0.0%	2	0.00	0
	0.0%		0.00	0
240		4		
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	6	0.01	
	0.0%	2	0.00	0

	0.0%	6	0.00	0
	0.0%	10	0.00	
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
250	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
		10		0
	0.0%	8	0.00	0
	0.0%		0.00	0
		4		0
260	0.0%	2	0.01	0
	0.0%		0.00	0
		8		
	0.0%	12	0.01	0
	0.0%		0.00	0
	0.0%	8	0.01	
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.01	
		6		0
270		10		0
	0.0%		0.00	0
	0.0%		0.00	0
		6		0
		4		0
				0
				0

280				
290				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	10.0%	6	4.98	0
	20.2%	3	4.51	0
	20.2%	1	1.47	0
	13.0%	1	1.04	0
	7.9%	1	1.61	0
	9.4%	1	1.08	0
	6.4%	1	1.08	0
	6.6%	1	1.03	0
10	6.3%	1	1.08	0
	10.6%	1	1.81	0
	7.3%	1	1.12	0
	7.6%	1	1.29	0
	6.9%	1	1.16	0
	9.3%	1	1.59	0
	6.4%	1	1.04	0
	7.0%	1	1.74	0
	8.4%	1	1.07	0
	8.4%	1	1.12	0
20	6.5%	1	1.74	500000
	8.8%	1	1.08	0

	6.8%	1	1.04	500000
	6.0%	1	1.03	0
	6.4%	1	1.55	0
	8.9%	1	1.55	0
	6.9%	1	1.04	319900
	5.9%	1	1.07	0
	7.1%	1	1.11	319900
	5.5%	1	1.07	0
30	9.4%	1	1.51	0
	13.7%	1	1.01	0
	11.8%	1	1.08	0
	17.1%	1	1.50	0
	11.8%	1	1.95	0
	9.7%	1	2.79	0
	9.9%	1	1.78	0
	10.5%	1	1.65	0
	7.1%	1	1.57	0
	7.1%	1	2.01	0
40	8.4%	1	1.73	0
	9.3%	1	1.73	0
	14.5%	1	2.00	0
	5.9%	1	1.51	0
	7.9%	1	2.45	0
	6.3%	1	1.65	0
	8.9%	1	1.74	0
	7.5%	1	1.71	0
	8.3%	1	1.65	0
	9.9%	1	1.74	0
50	9.4%	1	1.87	0
	7.5%	1	1.23	0
	7.2%	1	1.04	500000
	7.5%	1	1.37	0
	6.3%	1	1.07	0
	9.6%	1	1.68	500000

	7.3%	1	1.07	319900
	6.5%	2	1.68	0
	4.6%	1	1.58	192
	7.1%	1	1.05	319900
60	18.2%	1	1.72	0
	21.9%	1	1.16	42700
	7.0%	1	1.68	0
	7.1%	1	1.12	0
	9.4%	1	1.60	0
	7.8%	1	1.68	160
	9.3%	1	3.83	42700
	6.8%	1	1.66	0
	7.6%	1	1.15	0
	7.2%	1	1.65	42700
70	9.3%	1	1.70	0
	10.2%	1	1.27	0
	9.3%	1	1.14	0
	6.3%	1	1.65	0
	11.1%	1	1.16	0
	7.5%	1	1.16	160
	7.7%	1	1.73	0
	9.8%	1	1.18	0
	7.6%	1	1.80	0
	7.5%	1	1.27	121000
80	10.8%	1	1.20	160
	10.1%	1	1.68	0
	7.1%	1	1.26	0
	10.8%	1	1.17	121000
	7.5%	1	1.21	28400
	9.8%	1	1.68	28400
	7.7%	1	2.10	28400
	7.3%	1	1.25	121000
	10.0%	1	2.10	28400
	7.2%	1	1.23	42700



90	9.3%	1	1.68	28400
	10.0%	1	1.25	42700
	5.1%	1	1.25	42700
	10.9%	1	1.69	42700
	20.8%	1	2.61	42700
	9.7%	1	2.06	42700
	9.3%	1	2.10	42700
	12.4%	1	1.55	56900
	9.3%	1	2.07	56900
	9.3%	1	1.55	56900
100	10.1%	1	1.50	56900
	12.2%	1	2.10	56900
	8.8%	1	1.41	113800
	9.1%	1	1.47	121000
	11.6%	1	2.14	113800
	10.6%	1	2.14	113800
	9.3%	1	2.11	113800
	8.4%	1	1.63	120900
	16.8%	1	1.67	120900
	9.3%	1	2.39	121000
110	9.2%	1	1.49	120900
	12.0%	1	1.50	120900
	8.9%	1	2.14	206200
	9.3%	1	2.00	206200
	13.3%	1	1.47	142200
	11.0%	1	2.27	142200
	9.0%	1	1.74	142200
	13.2%	1	1.54	106600
	13.2%	1	2.14	106600
	13.2%	1	1.62	206200
120	9.7%	1	1.55	163500
	9.1%	2	2.19	163500
	13.2%	1	1.86	149400
	13.2%	1	1.66	184800

	10.6%	1	1.86	184800
	5.4%	1	1.74	184800
	16.2%	1	2.28	206200
	35.6%	1	1.54	227500
	11.6%	1	1.86	213300
	13.2%	1	3.84	319900
130	10.8%	1	1.59	213300
	11.9%	1	2.28	319900
	15.7%	1	2.24	241700
	13.7%	1	2.87	263000
	10.5%	1	1.86	263000
	13.4%	1	2.40	319900
	13.7%		1.95	213300
	13.7%	1	1.81	270200
	13.6%	1	2.43	500000
	11.6%	1	2.09	263000
140	14.0%	1	1.81	277300
	12.8%	2	1.81	291500
	13.9%	1	1.92	319900
			2.58	319900
	18.6%	1		334100
	18.6%	1	2.10	362600
	11.5%	1	1.80	355500
	13.7%	1	2.41	398100
		1	3.62	405200
	13.2%	1		412300
150	10.5%	1	1.77	348400
	11.0%	1	2.57	405200
	18.6%	1	2.57	405200
	18.6%	2	1.81	376800
	10.3%	1	1.91	
	12.9%	1	1.77	391000
	13.8%	1	2.47	419500
	18.6%	1	2.47	433700

	6.9%	1	2.47	800000
	30.8%	1	2.57	
160	15.3%	1	2.57	483400
	13.2%	1	7.84	483400
	15.3%	1	2.12	405200
	17.8%	1	2.01	405200
	11.6%	1	2.57	405200
	18.6%	1	2.26	405200
	17.3%	1	2.47	455000
	15.3%	1	2.56	483400
	12.2%	1	2.93	483400
	10.8%	1	2.53	800000
170	12.1%	1	2.13	800000
	10.8%	1	2.53	800000
	18.0%	1	2.47	419500
	11.4%	1	2.57	483400
	10.8%	1	2.46	447900
	11.3%	1	3.91	426600
	10.8%	1	2.46	455000
	10.8%	1	3.48	800000
	11.4%	1	2.46	476300
	11.4%	1	1.93	483400
180	14.3%	1	2.46	469200
	14.3%	1	1.91	455000
	13.3%	1	2.02	440800
	14.3%	1	2.01	469200
	14.3%	2	1.98	469200
	10.5%	1	2.46	447900
	7.2%	1	2.46	469200
	14.3%	1	2.33	476300
	33.8%	1	1.88	433700
	15.8%	1	1.82	469200
190	14.3%	1	2.46	433700
	13.7%	1	1.97	447900

	14.3%	1	1.80	433700
	11.5%	1	2.47	476300
	14.3%	1	2.38	476300
	11.4%	1	1.84	469200
	13.9%	1	1.84	469200
	15.3%	1	2.38	476300
	13.8%	1	3.84	469200
	12.9%	1	2.38	469200
200	19.7%	1	2.58	469200
	15.0%	1	1.91	483400
	16.8%	1	2.42	500000
	18.1%	1	2.38	500000
	13.2%	1	2.01	497700
	17.1%	1	2.38	500000
	16.2%	1	2.09	497700
	19.9%	1	3.24	500000
	16.8%	1	2.38	900000
	15.1%	1	2.38	504800
210	17.8%	1	2.20	500000
	19.7%	1	3.01	500000
	15.5%	2	2.38	500000
	12.4%	1	2.34	500000
	16.7%	1	3.24	500000
	47.2%	1	3.17	500000
	24.3%	1	2.19	500000
	18.7%	1	6.68	600000
	20.2%	1	3.24	600000
	17.2%	1	2.35	1000000
220	20.8%	1	3.24	600000
	15.3%	1	2.52	600000
	19.0%	1	3.24	600000
	20.5%	1	3.24	600000
	42.5%	1	3.24	700000
	21.1%	1	2.57	1000000

	19.1%	1	3.26	800000
	14.4%	1	6.68	800000
	17.1%	1	2.69	1000000
	16.2%	1	3.18	1000000
230	15.3%	1	6.68	800000
	15.3%	1	2.79	2200000
	15.3%	1	6.68	1000000
	15.8%	1	6.68	1000000
	18.3%	1	3.31	1000000
	13.2%	1	6.68	900000
	10.9%	1	5.12	1000000
	18.2%	1	6.68	900000
	42.4%	1	2.96	1000000
	16.4%	1	3.22	1000000
240	14.5%	1	2.53	1000000
	18.4%	2	3.79	800000
	18.0%	1	3.07	2200000
	12.6%	1	3.77	1100000
	21.2%	1	2.98	1000000
	13.8%	1	2.47	1100000
	15.2%	1	19.06	2200000
	18.8%	1	7.25	2200000
	15.4%	1	2.75	1100000
	11.7%	1	2.73	1100000
250	20.3%	1	3.05	2200000
	14.2%	1	2.50	800000
	14.0%	1	2.53	2200000
	16.3%	1	2.53	900000
	18.0%	1	3.02	1100000
	14.6%	1	2.53	2200000
	18.5%	1	2.35	900000
	14.5%	1	3.07	900000
	16.7%	1	2.53	1000000
	18.5%	1	2.52	1000000

260	17.2%	1	2.47	1000000
	12.9%	1	2.47	900000
	22.2%	1	2.46	900000
		1	3.28	900000
	13.2%	1	4.87	800000
	16.1%	1	5.32	800000
	9.4%		2.38	900000
	38.2%	1	2.43	800000
	40.3%	1	3.28	800000
	16.3%	1	2.41	900000
270	15.8%	2	2.42	800000
	14.7%	1	3.31	800000
	16.4%	1	2.43	800000
	14.1%	1	2.24	800000
	14.7%	1	3.20	800000
	13.2%	1	2.47	800000
	13.7%	1	2.12	800000
	15.1%	1	2.98	800000
	13.4%	1	2.30	800000
	11.3%	1	2.43	800000
280	15.5%	1	3.16	800000
	13.2%	1	2.40	800000
	7.0%	1	2.45	800000
	25.4%	1	3.18	1500000
		1	2.42	700000
	15.5%	1	2.54	800000
	9.8%	2	3.49	700000
			2.54	700000
	6.9%	2	2.46	700000
	7.8%	1	3.30	700000
290	6.8%			600000
	6.3%	1	2.52	700000
	5.2%	1	2.74	700000
	0.2%	1	3.05	800000

		1	9.67	800000
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#### A.1.6 MIL OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.5%	8	0.08	0
	0.0%	4	0.00	0
	0.0%			
80				
		4	0.00	0
	0.0%			

		14	0.01	0
90	0.0%	14		
			0.00	0
	0.0%	4		0
			0.00	
	0.0%	4	0.00	0
100				
	0.0%	16	0.00	0
	0.0%	12	0.00	0
110	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0



120	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8		
			0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
130	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
140				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%			
		14	0.00	0
	0.0%			
		8	0.00	0
150	0.0%	14	0.00	0
	0.0%	4		0
			0.01	
	0.1%	14	0.00	0

	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.01	0
160	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
170				
	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%	8		0
			0.01	
	0.0%	24	0.00	0
180				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
	0.1%	8	0.01	0
	0.0%	20	0.01	0

	0.0%	12	0.00	0
	0.0%	4	0.00	0
190	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.1%	20	0.02	0
	0.0%	16	0.01	0
	0.1%	8	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
200	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	24	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	26	0.01	0
	0.0%	14	0.00	0
	0.1%	4	0.00	0
210	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.1%	28	0.04	0
	0.1%	24	0.01	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	28	0.01	0
220	0.0%	10	0.00	0
	0.0%	24	0.00	0

	0.0%	14	0.01	0
	0.1%	24	0.01	0
	0.0%	20	0.01	0
	0.0%	14	0.00	0
	0.0%			
		8	0.00	0
230	0.0%	16		
			0.02	0
	0.1%	12		0
			0.00	
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
240				
	0.0%	16	0.00	0
	0.0%	18	0.01	0
	0.0%	24	0.00	0
	0.0%	24	0.00	0
	0.0%	8	0.00	0
	0.1%	14	0.01	0
	0.0%	8	0.00	0
	0.0%	22	0.00	0
250	0.0%	6	0.00	0
	0.0%	42	0.00	0
	0.0%	20	0.01	0
	0.0%	24	0.00	0
	0.0%	26	0.01	0
	0.0%	8	0.00	0

	0.0%	22	0.01	0
	0.0%	18	0.00	0
	0.1%	42	0.02	0
	0.0%	8	0.00	0
260	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	28	0.01	0
	0.0%	8	0.00	0
	0.1%	14	0.00	0
	0.0%			
		26	0.01	0
	0.0%	4	0.01	0
	0.0%	18		0
			0.01	
270	0.0%	32	0.01	0
	0.0%	10	0.00	0
	0.0%	34	0.01	0
	0.0%	8	0.00	0
	0.1%	42	0.02	0
	0.0%	20	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.01	0
280				
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	22	0.01	0
	0.0%	10	0.02	0
	0.1%	24	0.01	0
	0.0%	12	0.00	0
	0.1%	32	0.01	0
	0.0%	8	0.00	0

290	0.0%	24	0.00	0
	0.0%	32	0.01	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
	0.1%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	16	0.00	0
	0.1%	24	0.01	0

**Tabela 36:** 1000 Objetos Pre-Runtime Edge OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
100				
	0.4%	2	0.09	0
	0.0%	2	0.00	0
	0.0%			

110		2	0.00	0
	0.0%	2	0.00	
120		2		
				0
	0.0%		0.00	0
	0.0%	2	0.00	0
		2	0.00	
	0.0%			0
130	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
150	0.0%	2	0.00	0
		2		
	0.0%		0.00	
		2	0.00	
				0
	0.0%			
		2	0.00	
160				
				0
	0.0%			
170		2	0.00	
				0



	0.0%			0
	0.0%	4	0.01	
180	0.0%	4	0.00	
				0
	0.0%	2	0.00	
				0
	0.0%	2	0.00	
		2		0
				0
190	0.0%		0.00	0
	0.0%	2	0.00	
		6		
				0
	0.0%		0.00	
		2		
200				0
	0.0%		0.00	0
	0.0%	2	0.00	
	0.0%	4		
				0
			0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	
		6		0
210	0.0%	8	0.00	0

	0.0%		0.00	0
		2		
	0.0%		0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	10		
			0.00	0
	0.0%	2	0.01	0
220	0.0%	6	0.00	0
		18	0.00	0
	0.0%	6		
			0.00	0
	0.0%			
		4	0.00	0
230	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
240	0.0%	10	0.00	0
		6		
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0

	0.0%	12	0.00	
		10		
				0
	0.0%		0.00	0
250	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	
		16	0.00	0
	0.0%			
		4	0.00	0
	0.0%			0
260	0.0%	8	0.00	
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
	0.0%	2	0.00	0
				0
	0.0%	14		
			0.00	0
	0.0%	20	0.00	0
270	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
		2	0.00	0
		4	0.00	
	0.0%			
				0
			0.00	

280	0.0%			
		6		0
	0.0%			
	0.0%	12	0.00	0
		24	0.00	0
	0.0%			
		12	0.00	0
	0.0%			
	0.0%	4	0.00	0
	0.0%	22	0.01	0
290	0.0%	6	0.01	0
	0.0%	6	0.00	
	0.0%	20		0
		20	0.01	0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70				
	0.5%	8	0.09	0
	0.0%	8	0.00	0
	0.0%	8	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
80	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.1%	16	0.00	0
	0.1%	34	0.00	0
	0.1%	16	0.02	0
	0.0%	16	0.01	0
	0.1%	60	0.03	0
	0.0%	34	0.00	0
90	0.1%	34	0.04	0
	0.1%	30	0.02	0
	0.0%	34	0.01	0
	0.1%	34	0.01	0
	0.0%	34	0.02	0
	0.0%	34	0.01	0
	0.0%	34	0.01	0
	0.2%	38	0.02	0
	0.1%	38	0.01	0
	0.0%	30	0.02	0
100	0.2%	30	0.01	0
	0.1%	56	0.01	0
	0.2%	46	0.02	0
	0.0%	56	0.01	0

	0.0%		0.01	0
	0.2%	44	0.01	0
		56		
	0.1%	82	0.01	0
			0.03	0
	0.0%	50		
110	0.7%	50	0.02	0
	0.1%	56	0.10	0
	0.1%	60	0.02	0
	0.1%	60	0.02	0
	0.1%	60	0.02	0
	0.1%	66	0.02	0
	0.1%	72	0.02	0
	0.1%	58	0.02	0
	0.0%	96	0.02	0
	0.2%	96	0.02	0
120	0.4%	128	0.02	0
	0.2%	144	0.02	0
	0.2%	96	0.06	0
	0.2%	72	0.06	0
	0.2%	76	0.03	0
	0.2%	88	0.03	0
	0.2%	84	0.03	0
	0.2%	90	0.04	0
	0.3%	96	0.03	0
	0.2%	96	0.04	0
130	0.3%	106	0.03	0
	0.4%	100	0.04	0
	0.2%	100	0.04	0
	0.3%	106	0.04	0
	0.3%	106	0.06	0
	0.4%	112	0.04	0
	0.2%	114	0.04	0
	0.3%	114	0.07	0

	0.4%	108	0.04	0
	0.3%	108	0.04	0
140	0.3%	122	0.05	0
	0.3%	112	0.06	0
	0.3%	106	0.05	0
	0.1%	114	0.06	0
	0.7%	122	0.04	0
	0.5%	122	0.06	0
	0.7%	114	0.06	0
	0.8%	112	0.06	0
	0.4%	112	0.05	0
	0.5%	114	0.05	0
150	0.3%	116	0.05	0
	0.5%	112	0.10	0
	0.8%	122	0.04	0
	0.8%	120	0.05	0
	0.8%	260	0.18	0
	0.6%	122	0.06	0
	0.4%	132	0.10	0
	0.3%	132	0.10	0
	0.5%	126	0.13	0
	0.4%	260	0.07	0
160	0.3%	260	0.07	0
	0.3%	126	0.09	0
	0.7%	122	0.06	0
	0.4%	126	0.11	0
	0.3%	126	0.16	0
	0.3%	122	0.11	0
	0.4%	122	0.05	0
	0.5%	128	0.06	0
	0.3%	114	0.11	0
	0.3%	118	0.10	0
170	0.4%	114	0.11	0
	0.3%	130	0.06	0

	0.3%	128	0.06	0
	0.3%	124	0.14	0
	0.3%	128	0.06	0
	0.3%	128	0.05	0
	0.4%	128	0.05	0
	0.5%	120	0.05	0
	0.2%	128	0.06	0
	0.5%	128	0.08	0
180	0.3%	128	0.05	0
	0.4%	144	0.07	0
	0.4%	136	0.05	0
	0.3%	170	0.05	0
	0.3%	262	0.05	0
	0.6%	122	0.05	0
	0.4%	140	0.06	0
	0.3%	136	0.05	0
	0.4%	126	0.07	0
	0.4%	146	0.05	0
190	0.3%	138	0.16	0
	0.8%	148	0.04	0
	0.5%	146	0.08	0
	0.5%	170	0.08	0
	0.7%	164	0.06	0
	0.5%	150	0.05	0
	0.4%	170	0.05	0
	0.7%	186	0.07	0
	0.7%	290	0.09	0
	0.6%	186	0.06	0
200	0.7%	196	0.08	0
	0.7%	204	0.06	0
	0.6%	222	0.08	0
	0.8%	234	0.07	0
	0.8%	254	0.08	0
	0.8%	260	0.08	0



	1.8%	260	0.10	0
	0.9%	264	0.15	0
	1.0%	280	0.08	0
	0.8%	286	0.10	0
210	0.4%	290	0.12	0
	1.9%	292	0.10	0
	1.4%	290	0.11	0
	1.1%	318	0.12	0
	0.9%	288	0.10	0
	1.0%	296	0.12	0
	0.8%	592	0.14	0
	3.2%	308	0.17	0
	0.6%	318	0.14	0
	2.5%	326	0.15	0
220	1.8%	332	0.14	0
	1.8%	326	0.15	0
	1.1%	340	0.25	0
	1.1%	330	0.54	0
		666	0.23	0
	0.6%	646	0.14	0
	1.1%	316	0.14	0
	0.7%	318	0.18	0
	0.8%	318	0.16	0
	0.8%		0.56	
230	0.6%	298	0.24	0
	0.7%	540	0.24	0
	0.6%	262	0.30	0
		254	0.16	0
	0.9%	244	0.16	0
		246		0
	0.6%	238	0.13	0
	0.3%	248	0.25	0
	1.6%		0.25	0
	1.1%	492	0.12	0

240	0.9%		0.13	
	0.6%	234	0.13	0
	0.6%	238	0.11	
	0.7%	444	0.11	0
	0.5%	426	0.10	0
	0.6%	330		0
	0.6%	220	0.23	0
	0.5%	218		0
	0.8%	210	0.13	0
	0.6%	206	0.11	0
250	0.6%	208	0.60	0
	0.8%	214	0.20	0
	0.7%	220	0.11	0
	0.8%	228	0.11	0
	0.6%	228	0.58	0
	0.8%	224	0.11	0
	0.7%	236	0.11	0
	0.6%	246	0.09	0
	1.3%	260	0.11	0
	0.8%	268	0.10	0
260		278	0.12	0
	0.6%	266	0.10	0
	1.6%	278	0.11	0
		290	0.11	0
	0.6%	296	0.13	0
	1.9%		0.12	0
	0.8%	292	0.12	0
	0.5%	622	0.11	0
	1.4%		0.13	0
	1.6%	300	0.13	
270	0.5%	316	0.16	0
	1.4%	326	0.15	0
	0.7%	330		
	1.0%	656	0.15	0

	2.8%	676	0.31	0
	1.1%	336		0
	1.1%	330	0.14	0
	0.8%	328	0.27	0
	0.6%	308	0.15	0
	0.8%	304	0.18	0
280	0.7%	288	0.38	0
	0.6%	284	0.31	0
	0.7%	282	0.16	0
	0.8%	284	0.14	0
	0.7%	280	0.14	0
	0.8%	294	0.58	0
	0.8%	270	0.20	0
	0.6%	270	0.13	0
	1.0%	266	0.14	0
	0.3%	270	0.12	0
290	0.7%	278	0.12	0
	0.9%	278	0.12	0
	0.9%	264	0.12	0
	0.6%	248	0.11	0
	0.5%	248	0.13	0
	1.2%	264	0.13	0
	0.4%	256	0.13	0
	1.5%	258	0.13	0

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
40				
	1.9%	4	0.34	32
50				
	0.0%	8	0.00	0
	0.0%			
60				
		6	0.01	0
	0.1%	8		

			0.00	0
70	0.0%	8	0.00	0
	0.0%	8		0
		4		0
			0.00	
	0.0%		0.00	
		8		0
80				
	0.0%		0.00	
		8		0
	0.0%		0.01	
		8		0
90				
	0.0%		0.01	
		16		0
	0.0%		0.00	
		8		0
			0.00	
		4		0
	0.0%			
100	0.0%		0.00	
		6		0

				0
	0.0%		0.00	
	0.0%	8	0.00	
		8		0
				0
	0.0%		0.00	
110	0.0%	8	0.00	
	0.0%	8	0.00	0
	0.0%	6		0
	0.0%	4	0.00	0
			0.03	
	0.2%	4	0.00	0
		4		0
				0
	0.0%		0.00	0
	0.0%	12	0.00	
120	0.0%	8	0.00	
	0.0%	6	0.00	0
		12	0.00	0
	0.0%			0
	0.0%	4	0.00	0
		8	0.00	
	0.0%			0
		8	0.00	0
	0.0%			0
130	0.0%	8	0.00	
		8	0.01	
	0.0%			0
	0.0%	4	0.00	
				0
	0.0%	12	0.00	

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

170	0.0%			0
	0.0%	4	0.00	
		4	0.00	0
	0.0%			0
	0.0%	2	0.00	
		8		0
	0.0%		0.00	0
		10		
	0.0%		0.00	0
		12		0
180	0.0%		0.00	
	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%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
190	0.0%	6	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
			0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	
	0.0%	8	0.00	0
	0.0%	4	0.00	0
200	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	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%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
210	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%		0.01	0
	0.0%	12		0
	0.0%		0.00	0
		2		0
	0.0%		0.00	0
	0.0%			0
220				
	0.0%	8		0
		8	0.01	
		2	0.00	0
		2	0.00	
	0.0%		0.00	
	0.0%	2	0.00	
	0.0%	10		0
	0.0%	8	0.00	0
		12	0.00	0
230	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	12		0
	0.0%		0.00	0
	0.0%	10	0.01	0
	0.0%	4	0.00	0
			0.00	0
	0.0%	8	0.00	0

	0.0%			
	0.0%	6	0.00	0
240		10		0
	0.0%	12	0.00	0
	0.0%	12	0.01	
		8	0.02	0
	0.0%	12	0.01	
	0.0%	6	0.00	0
	0.1%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	18	0.00	0
250	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
260	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	18		0
	0.0%	12	0.00	0
	0.0%		0.00	0
		8		0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
270				0
	0.0%			

	0.0%			0
		6	0.01	0
		8	0.00	
		14	0.00	0
	0.0%	8	0.00	
	0.0%	8	0.00	
	0.0%	8	0.00	
	0.0%	12	0.00	0
280	0.0%	8	0.00	0
	0.0%	16	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%	14	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
290	0.0%	8	0.00	0
	0.0%	14	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
	0.0%	16	0.00	0
	0.0%	8	0.00	0

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	0.0%	4	0.09	0
60	0.0%	8	0.02	
	0.0%			
	0.0%			
				0
		8		
70				
	0.0%			
			0.00	0
		4	0.00	0
		16		0

	0.0%	16		
	0.0%			
80				0
		8		
				0
	0.0%			0
	0.0%		0.01	
	0.0%			
	0.0%			
90	0.0%	8		
			0.01	
		16		0
	0.1%		0.01	
			0.00	
		8		0
	0.0%			0
100		4	0.00	0
		6		
	0.0%			
		8	0.01	0
	0.0%		0.00	0
		6		0
			0.00	
	0.0%			0
	0.0%	4	0.02	

110	0.0%	8		
			0.00	0
	0.0%	6		0
		8	0.01	0
		6	0.00	
	0.0%			0
	0.0%	14	0.00	0
	0.0%	4	0.01	
			0.00	
			0.00	0
120	0.1%	4		
		6	0.01	0
	0.0%	12	0.00	0
		6		
	0.0%	8		0
	0.0%		0.00	0
	0.0%	8		0
		4	0.01	0
	0.0%	4	0.00	
	0.0%	4	0.01	0
130	0.0%			0
	0.0%	8	0.01	
	0.0%	4		
	0.0%	8	0.01	0
			0.01	0
	0.0%		0.00	
	0.0%		0.02	0
	0.0%	8		
		4	0.00	0
140	0.0%	12	0.01	0
			0.01	0
	0.0%	4	0.00	
	0.0%	4		0

			0.01	0
		6		
	0.1%	16	0.01	0
	0.0%			0
		4	0.00	0
	0.0%	4		0
150	0.0%	4		
	0.0%	4	0.01	0
			0.01	
	0.0%	12		0
	0.0%		0.00	0
	0.0%	8		
		4	0.01	0
	0.0%	8	0.00	0
	0.0%	4		
160	0.0%	4	0.01	0
	0.0%			
			0.01	0
	0.0%	2	0.00	0
		2		0
	0.0%			0
		4		0
	0.0%	4	0.01	
		8		
170	0.0%		0.01	0
	0.0%			
			0.01	
	0.0%		0.01	0
		8	0.01	0
	0.0%			
	0.0%		0.00	

		10	0.01	0
		8	0.00	
180	0.0%		0.00	0
		10	0.01	
			0.01	
	0.0%		0.00	0
		4	0.01	0
		8	0.00	0
		8	0.00	0
	0.0%		0.00	
	0.0%	8	0.01	0
	0.0%	4	0.00	0
190	0.0%	4	0.01	0
		12	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.01	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
200	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.01	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.09	0
	0.0%	10	0.01	0
	0.0%	6	0.01	0
210	0.0%	8		0
	0.0%	12	0.01	0



	0.0%	12		0
	0.0%			0
	0.0%		0.00	0
	0.0%	12	0.00	0
	0.0%			
	0.0%	2		0
	0.0%		0.01	0
	0.0%		0.01	
220	0.1%	4		0
	0.1%	8		0
	0.0%		0.00	
	0.3%		0.01	0
		2	0.00	
	0.0%	6	0.01	
		4		0
	0.0%	12	0.00	0
	0.1%		0.00	0
		2	0.00	0
230	0.0%	6		0
		4	0.01	
	0.0%	14	0.03	0
	0.0%	14	0.00	0
	0.0%		0.00	0
		6	0.01	0
		2	0.01	
	0.0%	16	0.00	0
	0.0%	14	0.01	0
240	0.0%	16	0.00	0
		10	0.01	0
	0.0%	14	0.00	0
	0.0%	6	0.00	
	0.0%	14	0.00	0
	0.0%	8	0.00	

		10	0.01	0
	0.0%	10	0.00	0
	0.1%	10	0.01	0
		10	0.00	0
250	0.1%	6	0.01	0
	0.1%	14	0.00	0
	0.0%	14		0
	0.1%	16	0.01	0
	0.0%	2	0.01	0
	0.0%	4		0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	8		0
260	0.0%	20	0.00	0
	0.0%	14		0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%		0.01	0
	0.0%	10	0.00	0
	0.0%	6	0.01	0
	0.0%	22	0.00	0
270	0.0%		0.01	0
	0.0%	2	0.01	0
	0.0%	6	0.00	
		4	0.01	0
			0.01	0
	0.0%	2	0.01	
	0.0%		0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	
	0.0%	16	0.01	0

280	0.0%	10	0.01	
		14	0.00	0
	0.0%	4	0.04	0
	0.0%	18	0.00	0
		8	0.01	0
	0.0%	8	0.01	0
	0.0%	10	0.00	0
	0.0%	16	0.02	0
	0.0%	4	0.01	0
	0.0%	16	0.00	0
290	0.0%	4	0.01	0
	0.0%	14		0
	0.0%	6		0
	0.0%	6		0
	0.0%	8		0
	0.0%	12		0
	0.1%	22		0
	0.0%	10		0

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

40				
	0.5%	4	0.10	0
50	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
			0.00	0
	0.0%	8		
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.03	0
	0.0%	12		0
	0.0%	16		0
60	0.1%			0
				0
			0.01	
			0.00	
		8	0.00	
	0.1%	8	0.00	
	0.1%	8	0.00	0
	0.0%	8	0.02	0
	0.1%		0.02	0
	0.1%	8		0
70		12	0.02	0
	0.0%	12	0.01	0
	0.0%	12	0.01	
	0.0%	12	0.01	0

	0.0%	4	0.00	0
			0.00	0
	0.0%	8		0
	0.0%	8	0.00	0
	0.0%	8	0.00	
	0.0%		0.00	0
80			0.00	0
		8		
	0.0%	2		
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
90	0.0%	8	0.01	0
	0.0%	12	0.01	0
	0.0%	16	0.01	0
	0.0%	2	0.01	0
	0.1%	16		0
		2	0.01	
	0.0%		0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.01	0
100	0.0%	4	0.01	0
	0.0%	8	0.01	0
	0.0%	14		0
	0.0%	14		0
	0.0%	14	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%		0.00	

		4	0.00	
		24	0.01	0
110	0.1%	14	0.00	
	0.0%		0.00	0
		12	0.01	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	14	0.06	0
	0.0%	14	0.01	0
	0.0%	4	0.02	0
120	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	28	0.01	0
	0.2%	20	0.01	0
	0.0%	8	0.01	0
	0.0%	12	0.01	0
	0.0%	4	0.01	0
	0.1%	4	0.00	0
	0.0%	8		0
130	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.01	0
	0.0%	16	0.01	0
	0.0%	8	0.00	
			0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
140	0.0%	12	0.01	0
	0.0%	4	0.00	0

	0.0%	12	0.01	0
	0.0%	4	0.01	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	22	0.01	0
	0.0%	4	0.01	0
	0.2%	4	0.01	0
	0.0%	4	0.00	0
150	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	4		0
	0.0%	12	0.01	
	0.0%		0.00	0
	0.0%	16	0.01	
		8		0
	0.1%		0.01	
	0.0%	4	0.01	0
160			0.00	0
	0.2%	2		
		2	0.00	0
	0.0%		0.01	0
	0.0%	4	0.00	0
		4		0
	0.0%	2	0.01	
	0.0%	4	0.00	0
	0.0%	4	0.01	
		4	0.00	
170	0.0%		0.01	0
	0.0%	12	0.01	
		4	0.01	0
	0.0%			0
		6	0.01	
	0.0%		0.01	0

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



210		4	0.00	
	0.1%	10	0.01	
		6	0.00	0
	0.0%	2	0.01	
		8	0.02	
		2	0.02	0
		6	0.00	0
	0.0%	10	0.01	
		4	0.00	0
	0.0%	4	0.02	
220	0.0%	6	0.00	0
	0.0%	2	0.02	0
		2	0.01	
	0.0%	4	0.02	
	0.0%	10	0.00	0
		2	0.01	0
	0.0%	14	0.00	0
	0.0%		0.01	0
		14	0.00	0
	0.0%			0
230		4	0.01	0
	0.0%	4		0
	0.0%		0.02	0
	0.0%	2		0
	0.0%		0.01	0
	0.0%			0
	0.0%	4		0
	0.0%	4	0.00	0
	0.0%	6	0.00	
	0.0%	8	0.02	0
240	0.0%			
	0.0%		0.00	0
		2		0
	0.0%	6	0.00	

	0.0%	4	0.00	0
		4	0.01	0
	0.0%		0.00	0
	0.0%	2	0.00	0
		2		
	0.0%		0.00	0
250	0.0%	4	0.00	0
	0.0%	6		
		4	0.00	
	0.0%	6	0.00	0
	0.0%		0.01	0
		6		0
			0.00	
	0.1%	2		
	0.0%	6	0.00	
		6	0.01	0
260		10	0.01	
		6	0.01	0
	0.0%	4	0.00	0
		4	0.01	0
	0.0%	14	0.00	0
	0.0%	6	0.01	
	0.1%	4	0.01	0
		6	0.01	0
	0.0%	4	0.01	0
	0.0%	6	0.01	0
270	0.0%	12	0.00	
	0.0%	6	0.01	0
		8		
	0.0%		0.01	0
		4	0.00	0
	0.0%		0.01	0
	0.0%	8	0.01	
	0.0%	12	0.00	0

		2		0
	0.0%			0
280	0.0%	8	0.01	0
	0.0%	2	0.01	0
	0.0%	10	0.01	0
	0.0%		0.01	
	0.0%	4	0.01	0
	0.0%			
	0.0%		0.00	0
	0.0%	4	0.01	0
	0.0%		0.01	
290	0.0%			
		4	0.02	
	0.0%		0.00	
		10		
		8		
		2		
			0.01	
		8		

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	19.6%	6	10.55	0
	30.3%	3	9.68	0
	35.1%	2	4.73	0
	22.4%	1	3.32	0
	14.6%	1	1.97	0
	11.9%	1	1.95	0
	13.2%	1	2.32	0
	19.4%	1	3.56	0

10	15.0%	1	2.06	0
	11.8%	1	2.00	0
	12.8%	1	2.14	0
	19.2%	1	3.48	0
	13.4%	1	2.14	0
	14.8%	1	2.30	0
	12.5%	1	2.01	0
	16.3%	1	3.14	0
	16.4%	1	2.39	0
	12.7%	1	2.07	0
20	12.2%	1	2.02	0
	16.7%	1	3.18	0
	16.1%	1	2.26	0
	12.0%	1	2.06	0
	13.3%	1	2.27	0
	20.3%	1	3.50	0
	15.5%	1	2.39	0
	13.8%	1	2.49	0
	13.0%	1	3.68	0
	11.2%	1	2.72	0
30	19.2%	1	2.27	0
	20.0%	1	3.22	0
	14.1%	1	2.15	0
	12.9%	1	2.14	0
	18.7%	1	3.24	0
	15.4%	1	2.58	0
	14.8%	1	2.37	0
	19.4%	1	3.25	0
	14.7%	1	2.23	0
	14.7%	1	3.06	0
40	24.0%	1	3.98	0
	17.9%	1	2.34	0
	13.8%	1	2.24	0
	17.8%	1	3.12	0

	13.8%	1	2.20	0
	12.5%	1	2.04	0
	16.6%	1	3.15	0
	14.3%	1	1.96	0
	14.5%	1	2.51	192
	20.9%	1	3.78	0
50	13.4%	1	2.00	0
	12.4%	1	2.03	0
	18.0%	1	3.26	0
	14.5%	1	2.14	0
	12.9%	1	2.19	0
	17.5%	1	3.19	160
	13.9%	1	1.99	0
	11.4%	1	2.01	0
	10.3%	1	3.27	0
	33.3%	2	7.93	0
60	33.7%	1	3.39	0
	14.2%	1	2.30	0
	13.1%	1	2.11	0
	20.1%	1	3.82	160
	17.2%	1	2.55	0
	13.0%	1	2.12	0
	18.2%	1	3.20	0
	12.9%	1	2.00	0
	12.4%	1	2.06	0
	20.7%	1	3.62	160
70	13.7%	1	2.19	0
	13.5%	1	2.09	0
	19.3%	1	3.41	28400
	14.5%	1	2.36	28400
	13.1%	1	2.17	28400
	18.6%	1	3.40	28400
	15.0%	1	2.18	28400
	13.7%	1	2.32	42700

	18.6%	1	3.32	42700
	14.5%	1	2.17	42700
80	13.1%	1	2.38	42700
	20.8%	1	3.35	42700
	13.7%	1	2.20	42700
	13.3%	1	2.23	42700
	21.8%	1	3.71	56900
	13.8%	1	2.25	56900
	14.8%	1	2.31	56900
	18.9%	1	3.51	56900
	8.7%	1	2.28	56900
	15.6%	1	3.97	106600
90	53.0%	2	8.18	213300
	23.3%	1	2.76	106600
	24.8%	1	4.29	120900
	18.6%	1	2.86	120900
	18.6%	1	3.11	121000
	21.3%	1	3.80	120900
	18.9%	1	2.80	120900
	17.0%	1	2.94	135100
	33.4%	1	6.61	135100
	22.9%	1	3.41	135100
100	18.5%	1	2.79	106600
	24.1%	1	3.94	106600
	17.7%	1	2.96	163500
	15.5%	1	2.61	163500
	20.8%	1	4.57	163500
	31.5%	2	5.74	334200
	19.0%	1	4.25	184800
	22.9%	1	3.48	184800
110	16.3%	1	2.56	206200
	21.5%	1	3.75	199100

	16.6%	1	2.59	227500
	15.3%	1	2.58	213300
	20.8%	1	3.77	213300
	16.5%	1	2.48	234600
	16.4%	1	2.69	255900
	21.6%	1	3.88	255900
	8.1%	1	3.03	206200
	42.0%	2	10.51	500000
120	46.5%	2	6.86	500000
	27.2%	1	4.01	270200
	21.3%	1	3.00	284400
	17.7%	1	2.98	312800
	23.8%	1	4.26	312800
	19.6%	1	3.06	327000
	18.6%	1	3.12	355500
	25.0%	1	4.26	348400
	22.2%	1	3.62	383900
	18.7%	1	2.96	405200
130	23.0%	1	4.23	355500
	19.9%	1	3.00	376800
	18.7%	1	2.97	376800
	23.5%	1	4.35	426600
	19.4%	1	3.09	398100
	18.9%	1	2.81	426600
	24.1%	1	4.47	433700
	19.5%	1	2.96	419500
	17.0%	1	2.84	419500
	24.2%	1	4.33	391000
140	20.9%	1	3.18	398100
	19.4%	1	3.28	398100
	26.5%	1	4.55	391000
	20.0%	1	3.29	405200
	20.5%	1	3.18	405200
	26.2%	1	4.68	455000

	21.5%	1	3.32	398100
	11.1%	1	3.28	426600
	27.7%	1	6.99	426600
	24.6%	1	3.01	419500
150	21.7%	1	3.59	447900
	31.3%	1	5.27	447900
	20.2%	1	3.04	426600
	18.4%	1	3.13	455000
	26.4%	1	4.94	490500
	23.7%	1	3.32	469200
	22.6%	1	4.53	497700
	39.0%	1	6.21	469200
	22.7%	1	3.01	447900
	18.6%	1	3.20	469200
160	28.2%	1	5.22	447900
	20.5%	1	2.85	476300
	18.6%	1	3.04	433700
	26.7%	1	5.04	433700
	20.6%	1	3.08	433700
	18.1%	1	2.92	419500
	24.8%	1	4.71	462100
	19.3%	1	2.89	462100
	18.6%	1	2.98	462100
	25.9%	1	4.73	455000
170	19.0%	1	3.13	469200
	20.0%	1	3.16	455000
	25.7%	1	4.58	455000
	19.9%	1	3.10	483400
	18.4%	1	3.06	455000
	26.6%	1	4.76	500000
	20.4%	1	2.86	511900
	11.5%	1	3.16	511900
	36.0%	2	10.51	900000
	25.4%	1	3.22	497700



180	27.9%	1	4.76	497700
	20.5%	1	3.08	511900
	20.3%	1	3.32	500000
	28.3%	1	5.00	500000
	21.6%	1	3.42	500000
	20.3%	1	3.19	500000
	27.3%	1	5.11	500000
	22.1%	1	3.29	600000
	20.2%	1	3.53	600000
	28.7%	1	5.22	600000
190	24.3%	1	3.45	600000
	22.9%	1	3.60	700000
	28.9%	1	5.44	700000
	23.1%	1	3.34	700000
	20.5%	1	3.45	700000
	28.8%	1	5.31	800000
	23.7%	1	3.45	800000
	21.2%	1	3.68	900000
	29.2%	1	5.17	900000
	24.9%	1	3.70	1000000
200	22.4%	1	3.84	900000
	30.7%	1	5.45	1000000
	25.6%	1	3.96	1100000
	24.0%	1	3.89	1000000
	29.0%	1	5.32	1100000
	27.7%	1	4.07	1000000
	22.0%	1	3.79	1100000
	17.8%	1	5.54	1100000
	45.1%	2	12.85	2200000
	43.1%	1	6.95	1200000
210	32.9%	1	4.42	1100000
	27.3%	1	4.39	1200000
	36.5%	1	6.52	1200000
	24.8%	1	4.56	1200000

	43.6%	1	7.75	1200000
	46.8%	1	6.88	1200000
	50.6%	1	19.18	1300000
	60.3%	2	10.84	2500000
	56.2%	2	9.00	2300000
	43.9%	1	6.33	1100000
220	31.2%	1	4.52	1100000
	21.0%	1	4.41	1000000
	45.6%	2	10.46	1900000
	40.2%	1	4.60	900000
	31.7%	1	5.90	900000
	27.0%	1	4.11	900000
	27.9%	1	4.49	900000
	31.0%	1	5.34	900000
	27.5%	1	4.21	900000
230	24.3%	1	4.05	900000
	34.2%	2	8.75	1800000
	19.1%	1	4.28	900000
	19.2%	1	5.71	800000
	45.2%	2	12.15	1600000
	60.7%	2	10.87	1600000
	34.2%	1	3.85	800000
	32.0%	1	5.81	800000
240	28.3%	1	4.22	800000
	24.7%	1	4.06	800000
	32.7%	1	6.25	800000
	28.0%	1	3.84	700000
	23.5%	1	4.17	800000
	33.9%	1	6.01	900000
	29.0%	1	4.27	900000
	24.1%	1	4.19	900000

	34.5%	1	6.22	900000
	28.5%	1	4.16	900000
250	24.9%	1	4.35	1000000
	37.1%	1	6.51	1000000
	27.9%	1	4.27	1000000
	29.6%	1	4.71	1000000
	36.0%	1	7.28	1100000
	35.7%	1	4.47	1100000
	26.6%	1	4.69	1100000
	27.1%	1	6.26	1100000
	45.4%	2	8.72	2200000
260				
	28.4%	1	6.74	1200000
	35.5%	1	4.93	1100000
	28.6%	1	5.10	1200000
	17.9%	1	6.08	1200000
	43.4%	2	11.51	2500000
	59.2%	2	11.37	2400000
	39.2%	1	4.50	1200000
	28.8%	1	5.54	1200000
	29.8%	1	4.17	1200000
270	33.8%	1	6.89	1100000
	42.8%	1	7.33	1100000
	35.4%	1	4.14	1000000
	24.3%	1	4.02	1100000
	31.9%	1	5.96	1000000
	27.5%	1	4.00	1100000
	25.0%	1	4.11	1100000
	33.4%	1	6.47	1100000
	29.7%	1	4.28	1100000
	24.2%	1	3.84	1000000
280	32.1%	1	6.12	1000000
	28.2%	1	4.24	1100000

	24.6%	1	3.82	1000000
	31.5%	1	6.24	1000000
	29.4%	1	3.92	1000000
	52.2%	1	17.51	900000
	51.8%	1	7.33	900000
	32.9%	1	4.62	1000000
	26.6%	1	4.40	1000000
	34.0%	1	6.59	1000000
290	17.2%	1	4.33	1000000
	49.2%	2	9.41	2100000
	16.4%	1	3.65	900000
	24.7%	1	7.53	900000
	60.2%	2	10.25	2000000
	35.3%	1	4.11	1000000
	25.8%	1	6.26	1000000
	0.9%	1	3.96	1000000

## A.2 RUNTIME

### A.2.1 UM OBJETO POR SEGUNDO

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70				
	0.4%	1	0.07	0
80				
110				
	0.0%	1	0.00	0
120				
190				
	0.0%	1	0.00	0

200				
230				
	0.0%	1	0.00	0
240				
290				

**Tabela 43:** 1 Objeto por segundo Runtime Edge OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70				
	0.4%	1	0.07	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
	0.0%	1	0.01	0
90	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.2%	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
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	0.01	0
	0.0%	1	0.01	0
	0.0%	1		
110				
			0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
120	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%	2	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.02	0
	0.1%	1	0.01	0
	0.1%	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	0.00	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		
140			0.00	0
	0.0%	2		
			0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		
150				
190				
			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
200	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
210	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
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
220	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1		
230				
240			0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.01	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
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	0.01	0
	0.0%	1	0.01	0
260	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
	0.0%	1	0.00	0
	0.0%	1		
270				
290				

**Tabela 44:** 1 Objeto por segundo Runtime Edge OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
50				
	1.5%	1	0.25	32
60				
70				
	0.0%	1	0.00	0
	0.0%			
80				
160				

		1	0.00	0
170	0.0%			
180				
200				
		1	0.00	0
	0.0%	1		
210				
280			0.00	0
	0.0%	1		0

290				

**Tabela 45:** 1 Objeto por segundo Runtime Edge OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.5%	1	0.09	0
60		1		
70				
90	0.0%		0.00	0
	0.0%	1		0
100				
170				

			0.00	
	0.0%	1		0
180				
210				
			0.00	
	0.0%	1		0
		1		
220				
280				
			0.00	
290	0.0%			0
		1		0



**Tabela 46:** 1 Objeto por segundo Runtime Edge OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	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
			0.00	0
				0
60				
70				
	0.0%	1		
	0.0%	1	0.01	
	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	0.01	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
90			0.00	0
				0
100				
170	0.0%	1		
	0.0%	1	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

180				
200				
	0.0%	1	0.00	
	0.0%	1	0.00	0
	0.0%	1	0.00	0
210	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	1.3%	2	0.00	0
	0.0%	1	0.06	0
			0.00	0
				0
220				
280				
	0.0%	1		
	0.0%	1	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

290	0.0%	1	0.00	0
				0

**Tabela 47:** 1 Objeto por segundo Runtime Edge Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.0%	6	0.40	0
	0.7%	2	0.17	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.6%	1	0.08	0
10	0.8%	1	0.08	0
	0.5%	1	0.09	0
	0.8%	1	0.13	0
	0.8%	1	0.07	0
	0.4%	1	0.21	0
	1.2%	1	0.09	0
	0.7%	1	0.13	0
	0.5%	1	0.09	0
	1.2%	1	0.09	0
	0.5%	1	0.07	0
20	0.5%	1	0.21	0
	0.5%	1	0.08	0
	0.4%	1	0.09	0
	0.5%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0

	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
30	0.5%	1	0.08	0
	0.3%	1	0.07	0
	0.6%	1	0.10	0
	1.0%	1	0.07	0
	0.5%	1	0.07	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.4%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.08	0
40	0.6%	1	0.08	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.6%	1	0.07	0
	0.6%	1	0.11	0
	0.5%	1	0.08	0
	0.5%	1	0.07	0
	0.5%	1	0.07	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
50	0.6%	1	0.08	0
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	2.3%	1	0.10	0
	1.1%	1	0.39	0
	0.6%	1	0.19	0
	0.5%	1	0.10	72
	0.7%	1	0.10	0

60	0.6%	1	0.10	0
	0.6%	1	0.10	0
	1.2%	1	0.10	0
	0.5%	1	0.21	0
	0.2%	1	0.09	0
	0.5%	1	0.09	0
	0.4%	1	0.10	0
	1.7%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
70	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.6%	1	0.09	0
	0.6%	1	0.09	0
	0.8%	1	0.09	0
	0.5%	1	0.13	0
	0.6%	1	0.09	0
	0.7%	1	0.09	0
80	0.9%	1	0.11	0
	0.8%	1	0.13	0
	1.5%	1	0.25	0
	1.4%	1	0.25	0
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	1.0%	1	0.17	3600
	0.9%	1	0.17	3600
90	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600

	1.0%	1	0.16	3600
	0.9%	1	0.17	3600
	1.0%	1	0.17	3600
	0.4%	1	0.16	3600
	1.4%	1	0.27	3600
	4.1%	1	0.19	3600
100	1.0%	1	0.16	3600
	1.0%	1	0.17	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.17	3600
110	0.5%	1	0.16	3600
	0.9%	1	0.15	3600
	0.9%	1	0.16	3600
	0.5%	1	0.11	3600
	1.0%	1	0.09	3600
	0.7%	1	0.09	0
	0.4%	1	0.15	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
120	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.6%	1	0.09	0
	0.9%	1	0.16	0
	1.0%	1	0.16	3600
	1.0%	1	0.17	3600
	1.0%	1	0.15	3600

	0.8%	1	0.15	3600
	1.0%	1	0.15	3600
130	0.5%	1	0.20	3600
	1.0%	2	0.46	7100
	8.8%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.19	3600
	1.1%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.18	3600
	1.0%	1	0.17	3600
140	1.0%	1	0.19	3600
	1.1%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.17	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%			
		2	0.27	7100
	1.4%			
150		1	0.15	3600
	0.9%	1	0.16	3600
	0.9%	1	0.18	3600
	1.1%	1	0.09	0
	0.5%	1	0.09	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
	0.5%	1	0.08	0
160	0.3%	1	0.07	0
	0.4%	2	0.26	0



	5.3%	1	0.09	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
	0.5%	1	0.09	0
	0.5%			
		2	0.17	0
170	1.0%			
		2	0.16	0
	0.9%			
		1	0.09	0
	0.5%	1	0.12	0
	0.7%	1	0.09	0
	0.5%	1	0.10	0
	0.5%	1	0.10	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
180	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.6%	1	0.10	0
	0.6%	1	0.09	0
190	0.3%	1	0.18	0
	0.9%	2	0.37	0
	7.1%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%			

		1	0.09	0
	0.5%	2	0.16	0
	0.9%			
		1	0.09	0
200	0.5%	1	0.10	0
	0.6%	1	0.09	0
	0.5%	1	0.17	3600
	1.0%	1	0.17	3600
	0.9%	1	0.16	3600
	1.0%	1	0.17	3600
	1.0%	1	0.17	3600
	0.9%	1	0.17	3600
	1.0%	1	0.16	3600
	1.0%	1	0.15	3600
210	0.8%	1	0.16	3600
	0.9%	1	0.16	3600
	1.1%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
220	0.5%	1	0.14	3600
	0.7%	2	0.49	7100
	9.6%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600

230	0.9%	1	0.10	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
	0.5%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
240	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.7%	1	0.09	0
	0.5%	1	0.17	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
250	0.4%	2	0.43	7100
	2.2%	1	0.38	3600
	5.3%	1	0.15	3600
	1.0%	1	0.15	3600
	0.9%	1	0.18	3600
	1.1%	1	0.20	3600
	1.2%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.17	3600
	1.0%	1	0.17	3600
260	1.0%	1	0.16	3600
	0.9%	1	0.17	3600
	1.0%	1	0.17	3600
	1.0%	1	0.16	3600

	1.0%	1	0.17	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.15	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
270	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	1.0%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.16	3600
	0.9%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.6%	1	0.08	0
280	0.3%	1	0.07	0
	0.3%	1	0.08	0
	1.5%	1	0.09	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
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.13	0
	0.7%	1	0.10	0
290	0.7%	1	0.10	0
	0.5%	1	0.10	0
	0.7%	1	0.11	0
	0.6%	1	0.09	0

**Tabela 48:** 1 Objeto por segundo Runtime Edge Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.7%	1	0.12	80
60				
290				
	0.0%	1	0.16	80

#### A.2.2 DEZ OBJETOS POR SEGUNDO

**Tabela 49:** 10 Objetos por segundo Runtime Edge OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
90				
	0.0%	1	0.09	0
	0.0%			
	0.0%			
100				
			0.00	0
	0.0%			
	0.0%			
		1		
		1		0

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

		1	0.00	
	0.0%			0
150				
		1	0.00	
	0.0%			0
		1	0.00	
160				
	0.0%			0
		1	0.00	
	0.0%			0
170				
		1	0.00	
	0.0%			0



180				
		1	0.00	
				0
				0
		1	0.00	
190	0.0%			
				0
				0
			0.00	
	0.0%			
200				
				0
		1		
			0.00	
	0.0%			
210				

		1		
	0.0%			
				0
220		1	0.00	
	0.0%			
				0
		1	0.00	
	0.0%			
				0
230				
		1	0.00	
	0.0%			
				0
		1	0.00	0
	0.0%			
240				
		1	0.00	0
				0
	0.0%			
		1	0.00	

	0.0%			0
250		1	0.00	
				0
	0.0%			
		1	0.00	
	0.0%	1	0.00	
				0
	0.0%			
		1	0.00	0
260		1		
	0.0%			0
			0.00	
		1		
	0.0%			0
			0.00	0
270		1		0
	0.0%			
			0.00	
		1		
	0.0%			0

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

**Tabela 50:** 10 Objetos por segundo Runtime Edge OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
190				
	0.5%	1	0.09	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%			
200				
210				
		1	0.00	0
	0.0%	1		
220				
290				

**Tabela 51:** 10 Objetos por segundo Runtime Edge OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

90				
	0.5%	7	0.09	0
	0.0%	1	0.00	0
	0.0%	7	0.00	0
100	0.0%	7	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
	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%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.2%	4	0.00	0
120	0.0%	5	0.00	0
	0.2%	5	0.00	0
	0.2%	5	0.00	0
	0.2%	5	0.00	0

	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	7	0.04	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
130	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	6	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
140	0.0%	7	0.00	0
	0.0%	6	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	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
	0.0%	7	0.00	0
150	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%	11	0.00	0
	0.1%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	5	0.00	0

	0.0%		0.00	0
	0.0%	5	0.00	0
160		5		0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	10	0.00	
	0.1%		0.01	0
		5	0.00	0
	0.0%	5		0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	
170	0.0%	5	0.00	0
	0.0%	5	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	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
180	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%	3	0.00	0
	0.0%	6	0.00	0
	0.1%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	4	0.00	0
190	0.0%	4	0.00	0
	0.0%	3	0.00	0



	0.0%	1	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
200	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
	0.0%		0.00	0
	0.0%	1	0.00	0
		1		0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
210	0.0%	1	0.00	
	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%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	1	0.00	0
220	0.0%	1	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
	0.0%	3	0.00	0
230	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%	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%	4	0.00	0
240	0.0%	4	0.00	0
	0.0%	5	0.01	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%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
250	0.0%	12	0.00	0
	0.0%		0.01	0
	0.0%	6	0.00	0
		6		0
	0.0%	6	0.00	0
	0.0%	5	0.00	0
	0.0%	6	0.00	
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	5	0.00	0

260	0.0%	11	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	5	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	6	0.00	0
270	0.0%	6	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
280	0.0%	13	0.00	0
	0.0%	7	0.00	0
	0.1%	7	0.02	0
	0.0%	6	0.00	0
	0.0%	5	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	6	0.00	0
290	0.0%	6	0.00	0

**Tabela 52:** 10 Objetos por segundo Runtime Edge OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	1.6%	1	0.30	32
		1		
80				
	0.0%		0.00	0
	0.0%	1		0
			0.00	
	0.0%	1		0

90				
			0.00	
		1	0.00	0
		1		
	0.0%			
			0.01	0
				0
	0.0%			
100		1	0.00	
			0.00	0
	0.0%			
		1		
			0.00	0
	0.0%			
		1		
			0.00	0
	0.0%			
110		1		
			0.00	0
	0.0%			
		1		
			0.00	0
	0.0%			
		1		
			0.00	0
120				
	0.0%			

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

160				
		1		0
	0.1%	1	0.01	
170				
				0
	0.1%	1	0.01	
		1		
180				0
	0.1%		0.01	0
		1		0
	0.0%		0.00	
190		1	0.01	0
			0.00	

	0.0%			
		1		
			0.00	
200				
	0.0%			0
		1		
			0.00	
210				
	0.0%			0
		1		
			0.00	
	0.0%			0
		1		
			0.00	
220	0.0%			0
		1		
			0.00	
	0.0%			0



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

260				
	0.0%			0
		1		
			0.00	
	0.0%			0
		1		
270			0.00	
	0.0%			0
		1		
			0.00	
280				
	0.0%			0
		1		
			0.00	
290				

**Tabela 53:** 10 Objetos por segundo Runtime Edge OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				
	0.1%	1	0.09	0
	0.5%			
	0.1%			
		1	0.00	0
				0
90				0
		1	0.00	
	0.0%			
				0
		1	0.00	
	0.0%			
				0

100				
		1	0.00	
	0.0%			
		1		
	0.1%	1		0
		1	0.00	
	0.0%			0
110		1	0.01	
	0.1%			
		1		
			0.00	
				0
	0.0%			
		1		
			0.00	
			0.00	0
120	0.0%			
		1		
			0.00	0
	0.0%		0.00	
		1	0.00	
				0
130	0.0%			
		1	0.00	

				0
	0.0%			
		1	0.01	
140				
				0
		1	0.00	
150				
	0.0%			0
				0
			0.00	0
	0.1%			
160		1		
				0
				0

		1	0.01	
170				
				0
	0.0%			
		1	0.01	
				0
180				
	0.0%			
		1	0.00	
		1		
				0
190				
	0.0%			
			0.01	
		1	0.00	
		1	0.00	
200	0.0%			

				0
		1	0.00	
210				0
	0.0%	1	0.00	
				0
	0.0%		0.01	
220		1		0
	0.1%			
		1	0.01	0
	0.0%			
230	0.0%	1	0.00	0
		1	0.01	0
	0.0%			

	0.0%			
		1	0.00	0
240	0.0%			
		1	0.00	0
				0
	0.0%	1	0.00	
				0
		1	0.00	
				0
250				0
	0.1%	1	0.01	
				0
	0.0%	1	0.01	
				0
260				
			0.01	
	0.0%			
				0
		1		
	0.0%		0.00	



270				
		1		
				0
	0.0%			
		1	0.00	
280				
				0
	0.0%			
		1	0.01	
290				0

**Tabela 54:** 10 Objetos por segundo Runtime Edge OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
70				
	0.5%	1	0.09	0
	0.0%	1	0.00	0
80		1	0.00	0
		1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
				0
	0.0%		0.00	0
	0.0%	1	0.00	
	0.0%	1	0.00	
	0.0%	1	0.00	0
	0.0%	1		0
90	0.0%		0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	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
100	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	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
110	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	0.00	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
120	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1		0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
		1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.00	0
	0.0%	1		0
130	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
		1	0.01	0
	0.1%		0.01	0

	0.0%	1	0.01	0
	0.1%	1	0.00	
	0.0%	1		0
	0.1%	1		0
	0.0%	1	0.00	0
140		1	0.00	0
			0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.00	0
	0.0%	1	0.00	
	0.0%	1	0.00	0
	0.0%	1		0
	0.0%	1		0
	0.1%		0.00	0
	0.0%		0.00	0
150		1	0.00	0
		1	0.00	
	0.0%	1		
	0.0%	1	0.01	0
	0.0%	1	0.00	0
		1		0
	0.1%	1		0
	0.0%			0
				0
		1	0.01	
160		1	0.01	
		1	0.01	0
	0.1%	1	0.01	0
	0.0%		0.01	0
	0.0%	1		
	0.1%	1		0
	0.1%			0
			0.00	
			0.00	

			0.00	
170	0.0%	1		
	0.1%	1		0
	0.0%	1		0
	0.0%	1		0
	0.1%			0
	0.0%		0.00	0
			0.00	
		1	0.00	
		1	0.01	
		1	0.00	0
180		1		0
	0.0%	1		0
	0.0%			0
				0
			0.00	
			0.01	
		1	0.00	
	0.0%	1		
	0.1%	1		0
190	0.0%	2		0
	0.0%			0
			0.01	0
			0.01	
			0.01	
			0.00	
	0.1%	1		
	0.0%	1		
	0.1%	1		0
				0
200			0.00	0
			0.00	0
			0.00	

	0.0%	1	0.00	
	0.0%	1		
	0.0%	1		
	0.0%	1	0.00	0
	0.0%		0.00	0
	0.0%		0.01	0
			0.01	0
210			0.01	
	0.0%	1		
	0.0%	1	0.00	
	0.1%	1	0.01	
		1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
	0.0%		0.00	
	0.0%		0.00	
		1	0.01	0
220	0.0%	2	0.00	0
	0.0%	1		0
	0.0%		0.00	0
	0.0%	1	0.01	0
		1	0.01	
	0.0%	1	0.00	0
	0.0%	1	0.02	0
	0.0%		0.00	0
	0.1%	1	0.00	
	0.0%	1	0.02	0
230	0.0%	1	0.00	0
	0.0%	1		0
	0.0%		0.00	0
	0.0%	1	0.00	
		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	0.00	0
	0.0%	2	0.01	0
240	0.0%	1	0.02	0
	0.0%	1		0
	0.0%	1	0.01	0
	0.0%		0.01	0
	0.2%	1	0.00	
		1	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2		0
	0.0%	2	0.01	0
250	0.0%	2	0.01	0
	0.0%	1	0.00	0
		2	0.01	0
	0.0%		0.01	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0
	0.1%	1	0.01	
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1		0
260	0.1%		0.01	0
	0.1%	1	0.00	0
	0.0%	2	0.00	0
		1	0.01	
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
	0.1%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
270		1	0.00	0

	0.0%		0.00	0
	0.1%	1	0.00	0
	0.0%	1		
	0.0%	1		0
	0.0%	1	0.00	0
		1	0.01	0
		1	0.00	0
	0.0%		0.00	
	0.1%	1	0.01	0
280	0.0%	1		0
	0.0%	1		0
	0.1%	1		0
		1		0
			0.00	0
			0.00	
		1	0.00	
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1		0
290	0.0%	1		0

**Tabela 55:** 10 Objetos por segundo Runtime Edge Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.9%	6	0.36	0
	1.1%	2	0.15	0
	0.8%	1	0.09	0
	0.5%	1	0.08	0
	0.4%	1	0.07	0
	0.6%	1	0.08	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0



10	0.5%	1	0.08	0
	0.4%	1	0.08	0
	0.6%	1	0.09	0
	0.6%	1	0.09	0
	0.5%	1	0.09	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
20	0.5%	1	0.10	0
	0.4%	1	0.09	0
	0.6%	1	0.10	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
	0.5%	1	0.09	0
30	0.3%	1	0.10	0
	0.7%	1	0.18	0
	1.6%	1	0.14	0
	0.6%	1	0.08	0
	0.5%	1	0.09	0
	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.10	0
	0.6%	1	0.09	0
40	0.6%	1	0.11	0
	0.4%	1	0.09	0
	0.6%	1	0.09	0
	1.0%	1	0.12	0

	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.09	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
50	0.7%	1	0.11	0
	0.5%	1	0.11	0
	0.7%	1	0.11	0
	0.6%	1	0.09	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.11	0
	0.6%	1	0.11	0
	0.7%	1	0.13	0
60	0.3%	1	0.11	0
	0.7%	1	0.18	0
	6.7%	2	0.38	0
	0.7%	1	0.11	0
	0.6%	1	0.10	0
	0.6%	1	0.10	0
	0.7%	1	0.12	0
	0.6%	1	0.11	0
	0.7%	1	0.11	0
	0.5%	1	0.11	0
70	0.7%	1	0.11	0
	0.8%	1	0.12	0
	0.8%	1	0.13	0
	0.6%	1	0.12	0
	0.7%	1	0.11	0
	0.6%	1	0.12	0
	0.7%	1	0.11	0
	2.6%	1	0.46	72

	1.4%	1	0.24	0
	0.6%	1	0.12	0
80	0.8%	1	0.12	0
	0.9%	1	0.13	0
	1.3%	1	0.21	0
	0.7%	1	0.13	0
	0.8%	1	0.13	0
	0.8%	1	0.13	0
	0.7%	1	0.12	0
	1.0%	1	0.16	0
	0.8%	1	0.14	0
	1.1%	1	0.24	0
90	1.0%	1	0.25	0
	0.6%	1	0.13	0
	3.0%	1	0.16	0
	0.9%	1	0.15	0
	0.8%	1	0.14	0
	0.9%	1	0.14	0
	1.9%	1	0.32	3600
	1.7%	1	0.30	3600
	0.7%	1	0.19	3600
	2.5%	1	0.23	3600
100	1.5%	1	0.22	3600
	1.4%	1	0.23	7100
	1.1%	1	0.21	7100
	1.3%	1	0.21	7100
	1.3%	1	0.21	7100
	1.3%	1	0.23	7100
	1.2%	1	0.21	7100
	1.4%	1	0.23	10700
	1.3%	1	0.28	10700
	1.6%	1	0.23	10700
110	1.5%	1	0.21	10700
	1.5%	1	0.25	14200

	1.3%	1	0.23	14200
	1.4%	1	0.22	14200
	1.3%	1	0.23	14200
	1.3%	1	0.22	17800
	1.3%	1	0.22	17800
	1.3%	1	0.23	17800
	1.0%	1	0.21	17800
	1.5%	1	0.23	21300
120	0.9%	1	0.23	21300
	1.8%	1	0.43	21300
	5.2%	1	0.28	21300
	1.4%	1	0.24	24900
	1.5%	1	0.24	24900
	1.4%	1	0.24	21300
	1.5%	1	0.24	21300
	1.1%	1	0.23	24900
	1.5%	1	0.23	24900
	1.8%	1	0.24	24900
130	1.7%	1	0.26	21300
	1.5%	1	0.25	24900
	1.5%	1	0.25	24900
	1.4%	1	0.25	24900
	1.5%	1	0.24	24900
	1.4%	1	0.26	28400
	1.1%	1	0.25	24900
	1.7%	1	0.24	24900
	1.7%	1	0.25	24900
	1.4%	1	0.24	24900
140	1.4%	1	0.25	24900
	1.6%	1	0.25	24900
	1.3%	1	0.23	24900
	1.4%	1	0.23	24900
	1.4%	1	0.24	21300
	1.3%	1	0.23	21300

	1.1%	1	0.23	24900
	1.6%	1	0.23	24900
	1.4%	1	0.22	21300
	1.5%	1	0.22	21300
150	0.7%	1	0.23	21300
	1.7%	1	0.31	21300
	8.8%	2	0.66	42700
	1.5%	1	0.24	21300
	1.3%	1	0.23	21300
	1.1%	1	0.24	17800
	1.5%	1	0.23	17800
	1.7%	1	0.29	17800
	1.7%	1	0.28	21300
160	2.6%	2	0.44	35500
	1.7%	1	0.24	17800
	1.3%	1	0.23	17800
	1.3%	1	0.23	14200
	1.2%	1	0.24	14200
	1.4%	1	0.23	17800
	1.9%	1	0.24	17800
	1.4%	1	0.24	17800
	1.4%	1	0.23	14200
170	1.4%	1	0.23	14200
	1.3%	1	0.22	14200
	1.2%	1	0.21	14200
	1.4%	1	0.23	14200
	1.3%	1	0.22	17800
	1.0%	1	0.21	14200
	1.5%	1	0.21	14200
	1.5%	1	0.22	14200
	1.3%	1	0.21	14200
	1.5%	1	0.25	14200

180	0.7%	1	0.22	14200
	1.5%	1	0.34	10700
	8.1%	2	0.65	24900
	1.4%	1	0.21	14200
	1.0%	1	0.22	14200
	1.8%	1	0.23	14200
	1.5%	1	0.23	14200
	1.3%	1	0.24	10700
	1.4%	1	0.25	10700
	1.5%	1	0.23	14200
190	1.3%	1	0.23	14200
	1.6%	1	0.26	14200
	2.0%	1	0.33	14200
	1.3%	1	0.23	10700
	1.0%	1	0.23	7100
	1.6%	1	0.22	7100
	1.6%	1	0.23	7100
	1.4%	1	0.24	10700
	1.3%	1	0.23	7100
	1.4%	1	0.21	3600
200				
	1.3%	1	0.21	3600
	1.2%	1	0.20	3600
	1.4%	1	0.23	3600
	1.1%	1	0.23	3600
	1.3%	1	0.21	3600
	1.6%	1	0.21	3600
	1.3%	1	0.21	7100
	1.2%	1	0.21	7100
	1.4%	1	0.22	7100
210	0.7%	1	0.21	7100
	2.1%	2	0.49	14200
	3.5%	1	0.34	7100
	1.4%	1	0.21	7100

	1.4%	1	0.22	7100
	1.5%	1	0.22	7100
	1.3%	1	0.22	7100
	1.2%	1	0.21	7100
	1.3%	1	0.22	7100
	1.1%	1	0.19	7100
220	1.4%	1	0.23	7100
	1.2%	1	0.25	10700
	1.2%	1	0.23	10700
	1.8%	1	0.25	10700
	1.7%	1	0.24	10700
	1.3%	1	0.24	10700
	1.8%	1	0.28	14200
	1.6%	1	0.29	14200
	1.5%	1	0.23	14200
	1.4%	1	0.24	14200
230	1.7%	1	0.28	14200
	3.6%	1	0.60	14200
	2.8%	1	0.60	17800
	1.7%	1	0.24	17800
	1.5%	1	0.22	17800
	1.5%	1	0.25	17800
	1.5%	1	0.24	17800
	3.7%	1	0.63	21300
	1.6%	1	0.27	21300
	1.5%	1	0.25	21300
240	0.7%	1	0.23	21300
	1.7%	1	0.48	21300
	5.2%	2	0.52	46200
	1.8%	1	0.31	21300
	1.5%	1	0.25	21300
	1.8%	1	0.29	21300
	1.4%	1	0.25	21300

	1.5%	1	0.27	21300
	1.5%	1	0.25	21300
250	0.6%	1	0.27	17800
	5.7%	2	0.47	42700
	1.8%	1	0.26	21300
	1.6%	1	0.27	21300
	1.6%	1	0.26	21300
	1.6%	1	0.28	21300
	1.6%	1	0.26	24900
	1.6%	1	0.25	24900
	1.5%	1	0.27	24900
	1.2%	1	0.27	24900
260	1.8%	1	0.26	24900
	2.3%	1	0.31	24900
	1.6%	1	0.26	24900
	1.7%	1	0.28	24900
	1.9%	1	0.32	28400
	1.6%	1	0.25	24900
	1.4%	1	0.23	24900
	1.4%	1	0.25	24900
	1.6%	1	0.26	24900
	0.7%	1	0.25	24900
270	3.0%	2	0.75	49800
	5.5%	1	0.31	24900
	1.5%	1	0.24	24900
	1.5%	1	0.26	21300
	1.5%	1	0.26	21300
	1.5%	1	0.24	24900
	1.4%	1	0.25	24900
	1.5%	1	0.26	24900
	1.1%	1	0.27	21300
	2.6%	1	0.30	21300
280	1.6%	1	0.25	21300
	1.7%	1	0.27	24900



	1.6%	1	0.27	21300
	1.4%	1	0.23	21300
	0.9%	1	0.24	17800
	2.1%	1	0.22	17800
	1.8%	1	0.24	21300
	1.4%	1	0.24	21300
	1.1%	1	0.23	17800
	1.1%	1	0.23	17800
290	0.0%	1	0.25	17800

**Tabela 56:** 10 Objetos por segundo Runtime Edge Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.3%	1	0.12	80
	0.7%	1	0.13	80
	0.7%			
10				
		1	0.14	80
	0.9%			
		1	0.13	80
	0.7%	1		
20				

			0.13	80
	0.8%	1		80
30			0.13	
	0.4%	1	0.13	80
	0.7%	1	0.12	80
40				
	0.9%	1	0.14	80
	0.7%	1	0.12	80
50				
	0.8%	1	0.14	80

60				
	0.3%	1	0.12	80
	0.7%	1	0.12	80
70				
	0.9%	1	0.14	80
	0.6%	1	0.10	80
80				
	0.7%	1	0.12	80

90	0.7%	1	0.16	80
	0.7%			
100				
		1	0.12	80
	0.7%			
110				
		1	0.11	80
	0.7%	1		
120			0.11	80
	0.7%	1		80

130				
150				
			0.14	
	0.8%	1	0.12	80
160				
	0.7%	1	0.12	80
170				
180				

	0.5%	1	0.12	80
190				
	0.7%	1	0.12	80
	0.8%	1	0.12	80
200				
210				
	0.9%	1	0.14	80
220				
	0.7%	1	0.12	80

	0.7%	1	0.12	80
230				
	0.7%	1	0.14	80
240	0.8%	1	0.14	80
290				

### A.2.3 CINQUENTA OBJETOS POR SEGUNDO

**Tabela 57:** 50 Objetos por segundo Runtime Edge OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

90				
	0.7%	2	0.10	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%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
120	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
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	0.00	0
140				
	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%	4	0.00	0
	0.0%	4	0.00	0

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

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

260				
	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%	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%	2	0.00	0
280				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

**Tabela 58:** 50 Objetos por segundo Runtime Edge OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
110				
	1.1%	2	0.12	0
	0.0%	2	0.00	0
	0.0%			
120				
130				
		2	0.00	0
	0.0%			

140				
250				
		2	0.00	0
	0.0%	2		
260				
			0.00	0
	0.0%	2		0
270				

280				

**Tabela 59:** 50 Objetos por segundo Runtime Edge OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
90				



	0.6%	2	0.09	0
	0.0%	2	0.00	0
100	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%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
110	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.1%	12	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.1%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	20	0.01	0
	0.1%	24	0.01	0
120	0.0%	24	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.4%	32	0.07	0
	0.0%	38	0.01	0
	0.1%	36	0.01	0
	0.1%	38	0.01	0
	0.1%	42	0.01	0
	0.1%	40	0.01	0
130	0.0%	40	0.01	0
	0.0%	40	0.01	0

	0.0%	42	0.01	0
	0.1%	42	0.01	0
	0.1%	46	0.01	0
	0.0%	44	0.02	0
	0.1%	44	0.01	0
	0.1%	44	0.01	0
	0.1%	44	0.01	0
	0.1%	44	0.02	0
140	0.1%	44	0.02	0
	0.1%	42	0.02	0
	0.1%	44	0.01	0
	0.1%	44	0.01	0
	0.1%	44	0.02	0
	0.1%	44	0.01	0
	0.0%	40	0.01	0
	0.2%	40	0.01	0
	0.1%	40	0.02	0
	0.0%	38	0.01	0
150	0.2%	38	0.01	0
	0.1%	34	0.01	0
	0.0%	36	0.01	0
	0.1%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.1%	28	0.03	0
	0.2%	24	0.01	0
	0.1%	28	0.02	0
160	0.1%	28	0.02	0
	0.1%	28	0.02	0
	0.0%	24	0.01	0
	0.1%	24	0.01	0
	0.0%	26	0.03	0
	0.1%	26	0.01	0

	0.1%	24	0.01	0
	0.1%	24	0.02	0
	0.1%	26	0.03	0
	0.2%	26	0.02	0
170	0.2%	26	0.02	0
	0.0%	26	0.01	0
	0.1%	24	0.01	0
	0.1%	28	0.02	0
	0.0%	26	0.01	0
	0.1%	26	0.02	0
	0.1%	24	0.02	0
	0.0%	28	0.01	0
	0.2%	28	0.03	0
	0.2%	26	0.02	0
180	0.1%	26	0.03	0
	0.2%	30	0.03	0
	0.1%	28	0.02	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.1%	28	0.02	0
	0.2%	28	0.04	0
	0.0%	28	0.02	0
	0.1%	24	0.02	0
	0.4%	28	0.05	0
190	0.1%	28	0.02	0
	0.1%	28	0.02	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
	0.0%	28	0.01	0
	0.6%	28	0.06	0
	0.1%	28	0.02	0
	0.1%	28	0.02	0

200	0.0%	28	0.01	0
	0.1%	28	0.02	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.02	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
210	0.1%	28	0.02	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.02	0
	0.2%	28	0.02	0
	0.0%	28	0.01	0
	0.1%	28	0.03	0
	0.2%	28	0.02	0
220	0.1%	28	0.01	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.02	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.00	0
230	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.01	0

	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
240	0.0%	30	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	24	0.01	0
	0.1%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	28	0.01	0
	0.0%	24	0.01	0
250	0.0%	26	0.01	0
	0.5%	26	0.03	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
	0.1%	26	0.01	0
	0.1%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.01	0
260	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	38	0.01	0
	0.0%	36	0.01	0
	0.1%	40	0.02	0
	0.1%	40	0.01	0

	0.1%	42	0.01	0
	0.1%	42	0.01	0
270	0.1%	46	0.01	0
	0.1%	44	0.04	0
	0.3%	44	0.02	0
	0.1%	44	0.01	0
	0.1%	44	0.01	0
	0.0%	44	0.02	0
	0.2%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
280	0.0%	42	0.02	0
	0.5%	42	0.06	0
	0.1%	42	0.01	0
	0.1%	42	0.01	0
	0.1%	42	0.01	0
	0.0%	38	0.01	0
	0.0%	36	0.01	0
	0.2%	36	0.02	0
	0.0%	32	0.01	0
	0.0%	34	0.01	0

**Tabela 60:** 50 Objetos por segundo Runtime Edge OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
70				
	2.2%	2	0.32	32
80				
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
		2	0.01	0
	0.1%	2		
			0.00	0
90	0.0%	2		0
			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%	4	0.00	0

100				
	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
110	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
120	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%	4	0.00	0
140	0.0%	4	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%			
160				
		4	0.00	0
	0.0%	4		
			0.00	0
	0.0%	4		0

170			0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
180	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
190				
	0.0%	4	0.00	0
	0.1%	4	0.01	0
200	0.0%	4	0.00	0

	0.0%	4	0.00	0
	0.0%	4	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		
220			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
230	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
240				
	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
	0.0%	4		0
			0.00	
250	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
260	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0

270				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
280				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

**Tabela 61:** 50 Objetos por segundo Runtime Edge OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
80				
	0.6%	2	0.10	0
	0.0%	2	0.00	0
	0.0%		0.01	
				0
90	0.0%		0.00	
		2		
		2		0
	0.2%			
		2	0.00	0
	0.0%			0
		2	0.00	
	0.0%		0.00	0
		2		
100	0.1%		0.01	0
		8		
	0.1%		0.01	0
		4		
	0.0%	4	0.00	0
			0.00	0
	0.0%			
		8	0.00	0
	0.0%			
110		4		0
	0.0%		0.00	

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

			0.00	0
	0.1%	4		
150			0.00	0
	0.0%	4		
			0.00	
	0.0%	4		0
			0.00	
160				
	0.0%	4		0
	0.0%		0.01	
		4		0
	0.0%		0.00	
	0.0%			
170		4		0
		4	0.00	
	0.0%			
				0
		4	0.00	
	0.0%	4		
				0



180			0.00	0
	0.0%	4		0
			0.00	
	0.0%	4	0.00	0
			0.00	
	0.0%	4		0
190				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
200				
	0.0%	4	0.01	0
	0.1%	4	0.01	0
	0.0%	4	0.01	0
210				
		4	0.01	0

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

			0.00	
	0.0%	4		0
250	0.1%	4	0.00	
	0.0%		0.01	0
		4		
	0.0%		0.00	0
		2		
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			0
		2	0.00	
260	0.0%	2	0.00	0
	0.0%		0.00	0
		2		
	0.0%	2	0.00	0
	0.0%	2	0.00	0
				0
	0.0%	2	0.00	
270			0.00	
	0.1%	2		0
	0.0%		0.00	
		4		0
	0.0%		0.00	
280		4		0
	0.0%		0.00	

		4		0
	0.0%		0.00	
		4		0
	0.0%		0.00	
	0.0%			

**Tabela 62:** 50 Objetos por segundo Runtime Edge OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.6%	2	0.00	0

80	0.0%	2	0.10	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.1%	4	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
90	0.3%	10	0.01	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
	0.0%	10	0.03	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
100	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.2%	16	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.02	0
	0.0%	6	0.01	0
110	0.0%	6	0.01	0
	0.0%	6	0.02	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0

	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.1%	6	0.00	0
	0.0%	6	0.01	0
120	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	0.01	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
130	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%	8	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	0.00	0
140	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%	8	0.00	0
	0.0%	4	0.01	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%	8	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%	4	0.01	0
	0.0%	4	0.03	0
160	0.0%	4	0.16	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
	0.1%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
170	0.0%	4	0.01	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	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.02	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
180	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	4	0.00	0
	0.1%	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	0.02	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
190	0.0%	4	0.01	0
	0.0%	4	0.01	0
	0.1%	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%	4	0.00	0
	0.0%	4	0.00	0
200	0.0%	4	0.00	0
	0.0%	2	0.02	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
	0.2%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	4	0.01	0
210	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
	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%	2	0.00	0
220	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	4	0.01	0
	0.0%	2	0.00	0
	0.1%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
230	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
240	0.0%	8	0.00	0
	0.2%	12	0.00	0
	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%	2	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	10	0.00	0

250	0.0%	4	0.00	0
	0.0%	6	0.01	0
	0.0%	8	0.01	0
	0.0%	4	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%	4	0.01	0
	0.0%	4	0.00	0
260	0.0%	4	0.01	0
	0.2%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.2%	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
	0.0%	2	0.00	0
270	0.0%	6	0.00	0
	0.1%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	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
280	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%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0

**Tabela 63:** 50 Objetos por segundo Runtime Edge Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.9%	6	0.21	0
	2.1%	2	0.43	0
	0.5%	1	0.31	21300
	0.6%	1	0.21	0
	2.1%	1	0.20	0
	0.5%	1	0.11	0
	0.3%	1	0.09	0
	3.1%	1	0.09	0
10		1	0.09	0
	1.0%	1	0.24	0
	0.6%	1		
	0.9%	1	0.17	0
		1	0.10	
	0.6%	1		0
	0.6%	1	0.10	0
	0.7%		0.10	0
	0.9%	2	0.21	0
	0.9%	1	0.12	0
20	0.8%	1	0.10	0
	0.8%	1	0.12	0
	2.8%		0.21	0
	2.5%	1	0.13	0

	1.8%	1	0.18	0
	0.4%	1	0.38	0
	0.6%	1	0.31	0
	1.8%	1	0.17	0
	1.1%	1	0.10	0
	2.8%	1	0.21	0
30	1.1%	1	0.33	0
	0.7%	1	0.11	0
	1.1%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.6%	1	0.11	0
	0.9%	1	0.11	0
	0.4%	1	0.33	0
	4.1%	1	0.12	0
	0.9%	1	0.14	0
40	0.7%	1	0.12	0
	0.7%	1	0.18	0
	0.9%	1	0.12	0
	0.7%	1	0.15	0
	0.7%	1	0.15	0
	0.9%	1		0
	1.1%	1	0.25	0
	0.9%	1		0
	0.5%	1	0.15	0
	0.9%	1	0.24	0
50	1.4%	2		0
	1.1%	1	0.13	0
		1	0.15	0
	1.5%	1	0.13	
		1	0.45	0
	1.3%	1	0.22	0
		1	0.46	
	1.0%	1	0.45	0

	0.5%	1	0.14	0
	1.1%	1	0.45	0
60	1.5%	1	0.19	
	2.4%	1	0.35	0
	1.1%	1	0.21	0
	0.7%	1	0.31	0
	2.4%	1	0.15	0
	0.9%	1	0.16	0
	2.4%	1	0.18	0
	0.9%		0.13	0
	0.9%	2	0.16	0
	1.1%		0.16	0
70	1.1%	1	0.17	0
	2.0%		0.16	0
	0.8%	1	0.14	0
	3.3%	1	0.54	0
	1.1%	1	0.30	0
	1.1%	1	0.20	0
	1.0%	1	0.19	0
	0.8%	1	0.19	0
	0.8%	1	0.28	0
	1.0%	1	0.17	0
80	0.9%	1	0.23	0
	0.9%	1	0.20	0
	0.9%	1	0.23	0
	0.7%	1	0.21	0
	1.3%	1	0.21	112
	3.8%	1	0.31	0
	1.8%	1	0.18	0
	1.1%	1	0.22	0
	1.2%	1	0.27	0
	1.1%	1	0.27	112
90	1.0%	1	0.31	112
	0.8%	1	0.39	0

	2.0%	1	0.20	0
	1.4%	1	0.21	0
	1.3%	1	0.44	0
	2.1%	1	0.29	0
	1.1%	1	0.34	0
	0.8%	1	0.49	0
	2.9%	1	0.30	0
	1.7%	1	0.31	0
100	2.0%	1	0.32	0
	1.0%	1	0.31	0
	1.9%	1	0.36	21300
	3.1%	1	0.32	0
	2.3%	1	0.49	0
	1.7%	1	0.37	0
	2.1%	1	0.40	0
	1.8%	1	0.40	21300
	2.0%	1	0.37	0
	1.9%	1	0.40	0
110	1.9%	1	0.39	80
	1.4%	1	0.38	0
	3.5%	1	0.48	7100
	2.0%	1	0.62	7100
	2.3%	1	0.57	14200
	2.5%	1	0.43	92400
	2.1%	1	0.49	14200
	2.5%	1	0.49	14200
	2.4%	1	0.46	21300
	3.4%	1	0.44	21300
120	2.4%	1	0.57	21300
	2.2%	1	0.44	28400
	1.9%	1	0.83	28400
	5.6%	1	0.49	92400
	3.3%	1	0.51	28400
	3.4%	1	0.53	35500

	3.0%	1	0.54	35500
	2.9%	1	0.50	42700
	2.7%	1	0.56	42700
	2.6%	1	0.54	42700
130	1.7%	1	0.54	56900
	5.5%	1	0.48	85300
	2.9%	1	0.58	163500
	4.6%	1	0.57	85300
	3.4%	1	0.54	78200
	3.0%	1	0.48	92400
	5.4%	1	0.61	85300
	3.1%	1	0.58	99500
	3.4%	1	0.57	163500
	3.1%	1	0.53	113800
140	5.4%	1	0.60	113800
	3.3%	1	0.57	128000
	3.3%	1	0.55	142200
	2.2%	1	0.58	149300
	4.5%	1	0.53	149300
	3.2%	1	0.55	142200
	3.5%	1	0.54	142300
	3.5%	1	0.50	156400
	3.1%	1	0.78	149300
	3.5%	1	0.48	135100
150	3.4%	1	0.58	163500
	3.3%	1	0.48	163500
	2.1%	1	0.50	163500
	5.4%	1	0.44	135100
	3.0%	1	1.19	163500
	3.8%	1	0.45	163500
	1.8%	1	0.46	156400
	13.3%	1	0.48	156400
	2.9%	1	0.58	156400
	3.0%	1	0.58	156400

160	3.0%	1	0.49	163500
	3.0%	1	0.46	156400
	3.3%	1	0.50	85300
	2.7%	1	0.45	163500
	3.3%	1	0.58	142200
	1.6%	1	0.70	149300
	5.7%	1	0.50	135100
	10.1%	1	0.50	135100
	3.3%	1	0.50	85300
	2.9%	1	0.53	128000
170	2.9%	1	0.45	128000
	3.6%	1	0.43	113800
	3.0%	1	0.45	128000
	2.4%	1	0.45	113800
	3.0%	1	0.48	99500
	2.1%	1	0.45	99500
	7.4%	1	0.48	99500
	3.6%	1	0.49	99500
	2.9%	1	0.54	85300
	2.9%	1	0.45	99500
180	2.5%	1	0.44	85300
	3.1%	1	0.59	85300
	3.6%	1	0.49	99500
	3.6%	1	0.45	92400
	2.7%	1	0.62	92400
	1.9%	1	0.54	99500
	2.8%	1	0.49	85300
	4.1%	1	0.45	99500
	3.6%	1	0.50	92400
	2.8%	1	0.48	92400
190	3.0%	1	0.49	92400
	3.2%	1	0.49	99500
	2.7%	1	0.49	99500
	2.6%	1	0.49	92400



	3.5%	1	0.92	99500
	2.7%	1	0.49	99500
	1.3%	1	0.49	99500
	4.4%	1	0.45	99500
	4.4%	1	0.47	99500
	2.8%	1	0.47	99500
200	3.0%	1	0.50	99500
	2.9%	1	0.51	106600
	2.8%	1	0.54	99500
	3.1%	1	0.54	99500
	2.8%	1	0.43	113800
	2.9%	1	0.54	99500
	2.8%	1	0.54	99500
	2.5%	1	0.42	99500
	1.7%	1	0.45	99500
	9.5%	1	0.48	99500
210	3.6%	1	0.53	99500
	3.0%	1	0.48	113800
	2.8%	1	0.48	99500
	3.1%	1	0.52	99500
	2.7%	1	0.48	99500
	1.8%	1	0.54	99500
	5.3%	1	0.49	99500
	3.1%	1	0.53	113800
	2.6%	1	0.47	99500
	2.7%	1	0.45	99500
220	3.5%	1	0.53	99500
	2.6%	1	0.47	99500
	3.1%	1	0.61	113800
	2.1%	1	0.47	99500
	4.1%	1	0.49	99500
	3.3%	1	0.57	99500
	2.0%	1	0.47	99500
	5.0%	1	0.47	99500

	4.5%	1	0.47	99500
	3.3%	1	0.52	99500
230	3.0%	1	0.46	99500
	2.7%	1	0.55	99500
	3.3%	1	0.41	99500
	1.9%	1	0.51	99500
	4.8%	1	0.47	99500
	4.0%	1	0.48	113800
	2.4%	1	0.62	92400
	2.9%	1	0.45	99500
	3.0%	1	0.56	99500
	2.8%	1	0.46	113800
240	2.7%	1	0.52	99500
	2.6%	1	0.45	99500
	2.1%	1	0.49	113800
	5.2%	1	0.57	113800
	3.3%	1	0.46	99500
	3.1%	1	0.53	99500
	2.5%	1	0.45	113800
	3.3%	1	0.45	113800
	3.3%	1	0.45	113800
	3.4%	1	0.48	113800
250	2.4%	1	0.58	99500
	2.4%	1	0.46	99500
	2.4%	1	0.71	106600
	2.3%	1	1.09	106600
	4.1%	1	0.47	92400
	3.1%	1	0.54	113800
	3.6%	1	0.58	92400
	1.8%	1	0.51	99500
	4.3%	1	0.54	99500
	15.2%	1	0.54	99500
260	2.9%	1	0.48	106600
	3.2%	1	0.54	106600

	3.3%	1	0.57	92400
	2.1%	1	0.55	92400
	4.8%	1	0.56	99500
	4.0%	1	0.60	92400
	2.8%	1	0.54	92400
	3.2%	1	0.58	99500
	3.4%	1	0.63	99500
	3.5%	1	0.60	92400
270	3.1%	1	0.60	92400
	3.8%	1	0.64	106600
	3.1%	1	0.61	92400
	2.3%	1	10.15	92400
	6.1%	1	0.88	106600
	4.6%	1	0.56	106600
	3.6%	1	0.68	106600
	3.6%	1	0.56	120900
	3.9%	1	0.66	113800
	37.1%	1	0.69	113800
280	13.6%	1	0.59	113800
	3.5%	1	0.61	128000
	3.8%	1	0.63	120900
	2.2%	1	0.98	135100
	6.4%	1	0.55	135100
	4.8%	1	0.61	142200
	3.6%	1	0.54	142200
	3.5%	1	0.53	156400
	2.5%	1	0.57	149300
	8.2%	1	0.78	163500

**Tabela 64:** 50 Objetos por segundo Runtime Edge Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.4%	2	0.21	160

	1.4%		0.16	80
		1		
				80
	0.7%	1		
		1	0.15	80
10	1.9%			
		1		80
			0.14	80
	0.8%		0.14	
		1		
				80
20	1.3%		0.21	
	1.1%	1		
				80
			0.17	
	1.1%	1		
				80
			0.14	
		1		
	1.4%		0.16	
30		1		80
		1		

	1.7%			
				80
		1	0.14	80
40	0.9%		0.12	80
		1		
	0.7%		0.12	80
			0.13	
		1		
	1.3%			80
			0.13	
	0.8%			80
50		1	0.14	
	0.8%			80
	1.0%	1	0.14	
				80
60				
70				
	1.0%	1	0.17	
				80
	1.0%	1	0.17	
		1		
			0.14	

		1		80
80	0.8%			80
			0.12	
		1		
	0.7%			80
			0.12	
		1		
	1.6%			80
			0.18	
		1		
	0.7%			80
90			0.12	
		1		
	0.9%			80
			0.14	
		1		
	1.0%			80
	0.9%		0.12	
		1		
	0.7%		0.12	
100		1		
		1		
	0.7%		0.12	80
				80
		1		
	0.4%	1	0.11	
			0.15	80
	1.0%	1		
			0.16	80
110				80
	1.0%	1		
	1.1%		0.15	

			0.16	80
	1.1%			
		1	0.19	80
	1.1%			
		1	0.15	80
120		1		
	0.7%			
			0.12	80
				80
	1.5%			
		1	0.12	
				80
		1	0.12	
	0.7%			80
130				
		1	0.12	
	0.7%			
		1	0.12	80
	1.2%			
		1	0.12	80
	0.7%			
140		1	0.12	80
	0.7%			
		1	0.14	80
	0.4%			
			0.12	

	0.4%			
	0.7%	1		80
		1		
150				
	0.7%		0.12	80
		1		80
	0.4%		0.12	
	0.9%	1	0.12	80
	1.0%	1	0.13	80
		1		
160				
	1.0%		0.17	80
		1		80
	0.9%		0.15	
		1	0.12	80
				80
		1	0.32	
	0.7%		0.15	80
170				
		1		
	0.7%		0.12	
		1		80
			0.12	
	0.8%	1		80
			0.15	
180	0.7%	1		



			0.13	
				80
	0.4%	1		
		1	0.12	
				80
		1	0.15	
190				
220				
	0.6%			
230				80
	0.5%			
		1	0.12	
				80
	0.9%			
		1	0.12	
	0.8%			
	0.7%	1	0.15	80
240				
	0.6%	1	0.12	80
		1		

	0.8%		0.12	80
		1		
	1.4%		0.12	80
		1		80
		1		
250	0.7%		0.23	
				80
		1		
	0.7%		0.12	
	1.0%		0.12	80
		1		
	0.7%		0.12	80
		1		80
260	0.8%		0.12	
		1		80
	0.4%			
		1		80
			0.12	
	0.7%			
		1		80
			0.12	
	0.5%			
270		1		80
			0.14	
	0.6%			
		1		80
		1	0.12	
	0.8%			
				80

		1	0.12	
	0.5%			
				80
280		1	0.13	
	0.7%	1		
				80
			0.12	
	0.6%	1		
				80
			0.11	
		1		

#### A.2.4 CEM OBJETOS POR SEGUNDO

**Tabela 65:** 100 Objetos por segundo Runtime Edge OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
100				

	0.5%	4	0.08	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%	4	0.00	0
110	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.1%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	4	0.00	0
120	0.0%	24	0.02	0
	0.0%	16	0.00	0
	0.0%	8	0.01	0
	0.0%	10	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%	4	0.00	0
	0.0%	6	0.00	0
130	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0

	0.0%	12	0.00	0
	0.0%	4	0.00	0
140	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
150	0.0%	18	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	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%	2	0.00	0
160	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%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	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%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
180	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%	2	0.00	0
	0.0%	4	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%	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
	0.0%	4	0.00	0
200	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
	0.0%	8	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	0.00	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
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%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
230	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.1%	20	0.03	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0

240	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
250	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
260	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	20	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.1%	12	0.01	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.1%	18	0.01	0
	0.0%	2	0.00	0
270	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0



	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
280	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%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

**Tabela 66:** 100 Objetos por segundo Runtime Edge OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
110				

	0.5%	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		
120				
			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%	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	0.00	0
140	0.0%	2	0.00	0

	0.0%	2	0.00	0
	0.0%			
150				
220				
		4	0.00	0
	0.0%			
230		6	0.00	0
	0.0%	4		
			0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
240				
	0.0%	4	0.00	0

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

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

**Tabela 67:** 100 Objetos por segundo Runtime Edge OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
100				
	0.3%	4	0.09	0
	0.5%	12	0.00	0
	0.3%	20	0.00	0
	0.0%	16	0.01	0
	0.0%	20	0.02	0
110	0.1%	20	0.01	0
	0.3%	24	0.02	0

	0.2%	32	0.02	0
	0.2%	44	0.02	0
	0.1%	48	0.04	0
	0.2%	56	0.02	0
	0.2%	70	0.03	0
	0.2%	80	0.03	0
	0.3%	88	0.04	0
	0.1%	98	0.06	0
120	2.4%	112	0.06	0
	1.5%	244	0.62	0
	1.5%	284	0.16	0
	1.5%	156	0.15	0
	0.5%	162	0.07	0
	0.8%	162	0.08	0
	0.4%	162	0.07	0
	0.4%	166	0.07	0
	0.5%	170	0.07	0
	0.3%	172	0.10	0
130	0.8%	174	0.08	0
	0.7%	180	0.10	0
	0.6%	184	0.10	0
	0.5%	190	0.10	0
	0.5%	190	0.08	0
	0.5%	190	0.09	0
	0.5%	186	0.09	0
	0.5%	190	0.09	0
	0.5%	190	0.09	0
	0.5%	196	0.09	0
140	1.3%	198	0.09	0
	0.6%	200	0.10	0
	1.0%	416	0.19	0
	0.7%	214	0.11	0
	0.6%	222	0.11	0
	0.6%	214	0.15	0

	0.5%	214	0.09	0
	0.5%	214	0.15	0
	1.0%	206	0.15	0
	0.6%	192	0.10	0
150	0.3%	202	0.10	0
	0.7%	194	0.22	0
	0.9%	198	0.10	0
	0.3%	190	0.09	0
	0.7%	192	0.12	0
	1.6%	192	0.09	0
	0.7%	194	0.22	0
	0.5%	390	0.18	0
	0.3%	202	0.11	0
	0.9%	200	0.09	0
160	0.6%	204	0.10	0
	0.6%	206	0.10	0
	0.7%	202	0.09	0
	0.6%	204	0.11	0
	0.6%	188	0.10	0
	0.6%	206	0.11	0
	0.6%	206	0.08	0
	0.5%	202	0.10	0
	0.3%	196	0.11	0
	1.3%	192	0.09	0
170	0.8%	188	0.12	0
	0.5%	358	0.20	0
	0.5%	170	0.08	0
	0.4%	160	0.09	0
	0.5%	158	0.09	0
	0.3%	148	0.07	0
	0.3%	148	0.08	0
	0.5%	142	0.07	0
	0.2%	138	0.07	0
	0.5%	102	0.07	0

180	0.4%	132	0.06	0
	0.3%	130	0.03	0
	0.3%	116	0.06	0
	0.1%	116	0.05	0
	0.2%	112	0.05	0
	1.0%	110	0.04	0
	0.1%	102	0.06	0
	0.3%	188	0.11	0
	0.2%	88	0.03	0
	0.2%	80	0.03	0
190	0.2%	84	0.03	0
	0.2%	80	0.03	0
	0.1%	76	0.03	0
	0.2%	72	0.03	0
	0.2%	72	0.03	0
	0.2%	74	0.03	0
	0.1%	76	0.03	0
	0.2%	76	0.03	0
	0.2%	72	0.03	0
	0.1%	74	0.03	0
200	0.2%	72	0.03	0
	0.2%	70	0.02	0
	0.2%	72	0.03	0
	0.1%	74	0.03	0
	0.2%	76	0.03	0
	0.1%	72	0.03	0
	0.1%	72	0.03	0
	0.7%	72	0.04	0
	0.2%	146	0.09	0
	0.2%	144	0.03	0
210	0.2%	72	0.03	0
	0.2%	72	0.03	0
	0.2%	72	0.03	0
	0.1%	70	0.03	0



	0.1%	72	0.03	0
	0.3%	72	0.03	0
	0.5%	72	0.05	0
	0.2%	70	0.12	0
	0.2%	144	0.08	0
	0.2%	72	0.03	0
220	0.2%	72	0.03	0
	0.2%	74	0.03	0
	0.3%	72	0.03	0
	0.2%	72	0.05	0
	0.2%	76	0.04	0
	0.1%	72	0.03	0
	0.8%	76	0.03	0
	0.3%	76	0.04	0
	0.2%	148	0.11	0
	0.1%	74	0.03	0
230	0.2%	74	0.03	0
	0.2%	72	0.03	0
	0.1%	76	0.03	0
	0.1%	78	0.04	0
	0.1%	76	0.03	0
	1.0%	74	0.03	0
	0.3%	76	0.03	0
	0.3%	82	0.04	0
	0.2%	78	0.04	0
	0.2%	124	0.03	0
240	0.2%	82	0.04	0
	0.2%	82	0.08	0
	0.3%	82	0.04	0
	0.2%	86	0.04	0
	0.1%	86	0.05	0
	1.0%	92	0.04	0
	1.0%	98	0.04	0
	0.5%	212	0.29	0

	0.4%	116	0.13	0
	0.3%	122	0.06	0
250	0.7%	124	0.07	0
	0.2%	128	0.06	0
	0.4%	138	0.08	0
	1.3%	288	0.14	0
	1.5%	218	0.23	0
	0.5%	294	0.15	0
	0.5%	152	0.12	0
	0.5%	156	0.08	0
	0.5%	166	0.08	0
	0.5%	174	0.08	0
260	0.6%	178	0.08	0
	0.3%	188	0.09	0
	0.7%	198	0.11	0
	0.8%	204	0.11	0
	0.6%	208	0.09	0
	0.6%	216	0.11	0
	0.6%	218	0.10	0
	0.7%	224	0.10	0
	0.7%	234	0.12	0
	0.6%	238	0.11	0
270	0.8%	232	0.11	0
	0.3%	230	0.13	0
	1.3%	230	0.14	0
	0.4%	226	0.13	0
	1.2%	446	0.27	0
	1.7%	218	0.10	0
	0.9%	222	0.33	0
	0.6%	452	0.23	0
	0.6%	234	0.12	0
	0.5%	230	0.11	0
280	0.7%	234	0.10	0
	0.8%	244	0.14	0

	0.9%	238	0.12	0
	0.8%	238	0.12	0
	0.6%	212	0.13	0
	0.6%	248	0.10	0
	0.6%	232	0.19	0
	0.6%	226	0.10	0
	0.4%	226	0.11	0

**Tabela 68:** 100 Objetos por segundo Runtime Edge OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				
	1.6%	2	0.00	32
	0.0%	4	0.01	0
	0.0%	2	0.00	0
90	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%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
100	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%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
110	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
120	0.0%	8	0.00	0
	0.0%	14	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	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
	0.0%	6	0.00	0
130	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
	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
140	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%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4		
			0.00	0
150	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.1%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	12	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
160	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%	4	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%	8	0.00	0
170	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%	8	0.00	0
	0.0%	4		0
	0.0%		0.00	
		8	0.00	0
	0.0%	4		0
	0.0%		0.00	
180		8	0.00	0
	0.0%	12		0
	0.0%	8	0.00	
	0.0%		0.00	0
		8	0.00	0
	0.0%	8	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
190	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%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	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
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
210	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%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	6		0
	0.0%	4	0.00	
			0.00	0
220	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%	4	0.00	0
	0.0%	6	0.00	0

	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
230	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	6		0
	0.0%		0.00	
		4	0.00	0
	0.0%	12	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
240	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	16	0.01	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
250	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	16	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%	4	0.00	0
	0.0%	6	0.00	0
260	0.0%	6	0.00	0



	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6		0
		8	0.00	
	0.0%		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
270	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%	10	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%	8	0.00	0
280	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%	8	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

**Tabela 69:** 100 Objetos por segundo Runtime Edge OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
90				
	3.4%	6	0.49	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%	16	0.00	0
	0.0%	2	0.00	0
	0.0%	16	0.00	0
100	0.0%	16	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.1%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.1%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
110	0.0%	8	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0

	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
120	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.1%	4	0.00	0
	0.1%	24	0.00	0
	0.0%	20	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.03	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
130	0.0%	8	0.00	0
	0.0%	2	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%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
140	0.0%	2	0.00	
	0.0%	4	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%	2	0.00	0
		4	0.00	0

	0.0%		0.00	0
	0.0%	4	0.00	0
150	0.0%	6		0
	0.0%	8	0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.01	0
			0.00	0
160	0.0%	8		0
	0.0%	4	0.00	0
	0.0%	4	0.01	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%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
170	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
180	0.0%	8	0.00	0
	0.0%	4	0.00	

	0.0%	4	0.00	0
		4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4		0
	0.0%		0.00	0
	0.0%	8	0.02	
		4	0.00	0
190	0.0%	12		0
	0.0%	8	0.00	0
	0.0%		0.00	
		8		0
	0.0%	8	0.00	0
	0.0%		0.00	0
	0.0%	8	0.00	0
		4	0.00	
	0.0%	8		0
			0.00	0
200	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%		0.01	
	0.0%	4		0
	0.0%	8	0.00	0
			0.01	0
	0.0%	8		
	0.1%	12	0.00	0
	0.0%	8	0.00	0
		4	0.01	0
210	0.0%		0.00	0
	0.0%	4		0
	0.0%	4	0.00	0
	0.0%	8	0.01	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%	4	0.00	0
	0.0%	12	0.00	
220	0.0%	8	0.02	0
	0.0%	4	0.00	
	0.0%	8	0.00	0
	0.0%	4	0.00	0
			0.00	0
	0.0%	6	0.00	0
				0
	0.0%	8	0.00	0
	0.0%	4		0
	0.0%	4	0.01	0
230	0.0%	4	0.01	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%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
240	0.0%	4	0.01	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.2%	8	0.00	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0

250	0.0%	12	0.01	0
	0.0%	8	0.02	0
	0.1%	8	0.00	0
	0.0%	8	0.00	0
	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%	4	0.01	0
	0.0%	6	0.02	0
260	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
		8	0.01	0
	0.0%	2	0.00	
	0.0%	4	0.01	0
	0.0%	12	0.00	0
270	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%	4	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.01	0
280	0.0%	8	0.00	0
	0.0%	12		0
	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.0%	4	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0

**Tabela 70:** 100 Objetos por segundo Runtime Edge OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
80				
	0.0%	2	0.11	0
	0.0%	6	0.00	0
90	0.0%	8	0.02	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0



	0.0%	6	0.02	0
	0.2%	6	0.02	0
	0.0%	6	0.00	0
	0.0%	32	0.00	0
	0.0%	10	0.02	0
	0.0%	32	0.01	0
	0.0%	10	0.02	0
100	0.0%	10	0.04	0
	0.1%	68	0.01	0
	0.3%	14	0.04	0
	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.1%	14	0.01	0
	0.1%	20	0.01	0
	0.1%	28	0.02	0
	0.0%	32	0.02	0
110	0.1%	32	0.02	0
	0.0%	40	0.03	0
	0.0%	36	0.01	0
	0.2%	68	0.03	0
	0.2%	36	0.03	0
	0.1%	40	0.01	0
	0.0%	68	0.02	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
	0.1%	36	0.01	0
120	0.0%	14	0.02	0
	0.1%	40	0.19	0
	0.0%	40	0.03	0
	0.7%	44	0.01	0
	0.3%	68	0.01	0
	0.0%	88	0.01	0
	0.1%	68	0.01	0

	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	20	0.01	0
130	0.0%	16	0.01	0
	0.0%	18	0.02	0
	0.0%	14	0.00	0
	0.1%	20	0.01	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	14	0.01	0
	0.1%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.02	0
140	0.0%	14	0.01	0
	0.0%	20	0.01	0
	0.1%	12	0.01	0
	0.0%	14	0.01	0
	0.0%	12	0.01	0
	0.1%	18	0.01	0
	0.1%	22	0.01	0
	0.0%	26	0.01	0
	0.2%	20	0.01	0
	0.1%	28	0.02	0
150	0.1%	24	0.02	0
	0.0%	20	0.01	0
	0.1%	24	0.01	0
	0.1%	20	0.02	0
	0.1%	28	0.01	0
	0.2%	20	0.01	0
	0.1%	24	0.01	0
	0.1%	24	0.00	0
	0.0%	40	0.01	0
	0.0%	20	0.00	0
160	0.0%	28	0.01	0

	0.1%	20	0.01	0
	0.1%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.00	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
170	0.1%	20	0.01	0
	0.1%	20	0.00	0
	0.0%	40	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.1%	16	0.01	0
	0.0%	20	0.01	0
180	0.0%	16	0.01	0
	0.0%	12	0.03	0
	0.0%	24	0.01	0
	0.1%	20	0.01	0
	0.0%	24	0.00	0
	0.2%	20	0.00	0
	0.0%	44	0.00	0
	0.0%	20	0.00	0
	0.1%	20	0.01	0
	0.0%	16	0.01	0
190	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	16	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.00	0

	0.0%	20	0.01	0
	0.0%	16	0.00	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
200	0.0%	16	0.01	0
	0.0%	20	0.03	0
	0.0%	16	0.01	0
	0.0%	20	0.03	0
	0.2%	40	0.01	0
	0.0%	12	0.03	0
	0.0%	20	0.01	0
	0.0%	6	0.01	0
	0.0%	20	0.03	0
	0.0%	20	0.01	0
210	0.2%	6	0.01	0
	0.1%	20	0.01	0
	0.0%	6	0.03	0
	0.0%	20	0.03	0
	0.0%	20	0.01	0
	0.0%	40	0.01	0
	0.0%	6	0.01	0
	0.0%	20	0.01	0
	0.3%	16	0.00	0
	0.0%	12	0.01	0
220	0.0%	6	0.00	0
	0.0%	10	0.01	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.1%	24	0.04	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	12	0.01	0

	0.0%	16	0.01	0
230	0.0%	14	0.10	0
	0.1%	12	0.01	0
	0.0%	12	0.01	0
	0.3%	14	0.00	0
	0.1%	18	0.01	0
	0.1%	32	0.02	0
	0.1%	12	0.01	0
	0.1%	12	0.10	0
	0.4%	12	0.01	0
	0.2%	16	0.00	0
240	0.1%	20	0.10	0
	0.1%	32	0.01	0
	0.2%	32	0.10	0
	0.1%	74	0.02	0
	0.1%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.00	0
	0.1%	36	0.02	0
	0.0%	44	0.01	0
	0.0%	32	0.02	0
250	0.0%	44	0.02	0
	0.0%	12	0.10	0
	0.0%	100	0.03	0
	0.0%	36	0.01	0
	0.5%	32	0.02	0
	0.1%	32	0.02	0
	0.0%	28	0.01	0
	0.1%	26	0.02	0
	0.0%	22	0.01	0
	0.0%	20	0.07	0
260	0.1%	12	0.02	0
	0.1%	12	0.01	0
	0.0%	18	0.02	0

	0.0%	20	0.02	0
	0.1%	22	0.03	0
	0.2%	16	0.01	0
	0.1%	16	0.02	0
	0.0%	20	0.01	0
	0.1%	16	0.00	0
	0.1%	14	0.01	0
270	0.0%	12	0.02	0
	0.1%	28	0.01	0
	0.1%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	14	0.01	0
		26	0.01	0
		22	0.01	0
		22	0.02	0
		20	0.00	0
		20	0.02	0
280		28	0.01	0
		24	0.01	0
		24	0.02	0
		20	0.01	
		24	0.13	
		24	0.01	
		24	0.01	
		20	0.01	
		24	0.01	

**Tabela 71:** 100 Objetos por segundo Runtime Edge Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.1%	6	0.57	0
	2.4%	3	6.90	0

	2.4%	2	0.35	0
	0.9%	1	6.90	0
	0.9%	2	0.14	0
	0.8%	1	0.14	1000000
	10.2%	1	0.15	0
	23.7%	1	0.15	1000000
10	23.7%	1	0.15	0
	5.8%	1	0.15	800000
	1.1%	1	0.49	0
	20.9%	1	0.18	800000
	1.4%	1	0.19	0
	20.9%	1	0.84	0
	1.3%	1	0.20	440800
	12.4%	1	6.90	0
	1.1%	2	6.90	440800
	1.1%	2	0.23	0
20	12.4%	1	0.19	0
	0.7%	1	0.21	0
	1.4%	1	0.25	0
	23.7%	1	0.29	0
	1.5%	1	0.37	0
	23.7%	1	0.32	0
	10.2%	2	0.31	1000000
	1.7%	1	0.32	1000000
	20.9%	1	0.84	0
	2.2%	1	0.86	0
30	20.9%	1	0.56	800000
	10.2%	1	0.84	0
	12.4%	1	0.38	800000
	1.7%	1	0.37	0
	12.4%	1	0.41	440800
	0.8%	1	0.67	440800
	3.6%	1	0.43	0
	9.8%	1	0.55	0

	5.0%	1	0.84	0
	2.3%	1	0.50	0
40	2.4%	1	0.84	0
	10.2%	1	0.49	0
	20.9%	1	0.52	0
	1.4%	1	0.56	1000000
	10.2%	1	0.90	0
	4.2%	1	0.67	1000000
	20.9%	1	0.84	0
	12.4%	1	1.18	0
	3.6%	1	1.24	0
	3.6%	1	0.84	0
50	12.4%	1	0.67	440800
	3.0%	1	0.63	440800
	3.0%	1	0.66	0
	2.7%	1	0.66	0
	5.0%	1	0.67	0
	3.2%	2	0.81	0
	10.2%	1	0.70	0
	1.5%	1	0.62	0
	5.0%	1	0.80	0
	9.7%	1	0.67	0
60	10.2%	1	2.78	0
	4.4%	1	1.09	0
	6.6%	1	0.86	0
	5.0%	1	0.67	0
	4.1%	1	1.03	0
	3.9%	1	0.70	0
	3.8%	1	0.62	0
	5.0%	1	0.67	0
	2.7%	1	0.77	0
	6.7%	1	0.67	0
70	4.5%	1	0.76	0
	2.8%	1	0.62	0



	5.0%	1	0.74	0
	12.2%	1	0.62	0
	16.6%	1	0.62	0
	4.1%	1	0.90	0
	5.0%	1	0.65	0
	5.0%	1	0.64	0
	2.8%	1	0.62	0
	11.4%	1	0.62	0
80	4.1%	1	0.66	0
	4.7%	1	0.76	0
	4.1%	1	0.65	0
	4.6%	1	0.62	0
	3.9%	1	0.66	0
	4.5%	1	0.99	0
	4.1%	1	0.76	0
	2.7%	1	0.70	0
	12.8%	1	0.98	0
	4.1%	1	0.77	0
90	9.9%	1	0.76	0
	4.0%	1	0.79	0
	4.0%	1	1.47	0
	4.1%	1	0.71	0
	3.9%	1	0.76	0
	12.8%	1	0.76	0
	3.9%	1	1.87	0
	3.8%	1	0.76	0
	10.6%	1	1.38	0
	12.8%	1	0.84	0
100	4.5%	1	0.76	0
	4.0%	1	1.19	0
	12.8%	1	0.82	0
	5.9%	1	1.88	0
	12.8%	1	0.94	112
	4.7%	1	1.61	0

	12.8%	1	0.81	0
	2.6%	1	1.88	0
	6.5%	1	1.55	0
	3.7%	1	1.88	0
110	12.8%	1	1.54	0
	8.1%	1	1.88	0
	6.5%	1	1.42	0
	6.3%	2	1.51	0
	4.8%	2	1.50	0
	6.8%	1	1.88	0
	6.5%	1	2.29	0
	5.0%	1	1.88	0
	6.5%	1	1.88	156400
	3.5%	1	1.91	156400
120	6.5%	1	1.92	156400
	15.4%	1	2.04	14200
	6.0%	1	2.19	156400
	9.1%	1	7.15	56900
	9.3%	1	4.15	71100
	11.4%	1	2.76	85300
	6.5%	1	11.42	99500
	6.5%	1	2.76	156400
	9.2%	1	2.06	900000
	11.4%	1	2.04	113800
130	6.5%	1	2.76	156400
	11.4%	1	2.76	156400
	11.4%	1	2.02	900000
	8.7%	1	2.90	900000
	7.7%	1	2.40	900000
	13.6%	1	2.76	213300
	11.3%	1	2.81	270200
	11.4%	1	2.76	298600
	12.1%	1	2.23	327000
	11.4%	1	2.93	600000

140	11.4%	1	2.70	355500
	13.1%	1	2.76	600000
	16.9%	1	2.85	600000
	16.9%	1	2.87	398100
	27.6%	1	5.24	600000
	16.9%	1	2.57	900000
	40.7%	1	2.20	900000
	16.9%	1	2.51	412300
	40.6%	1	2.34	900000
	12.2%	2	2.20	1000000
150	12.0%	1	2.84	600000
	16.9%	1	2.31	1500000
	16.9%	1	2.28	600000
	17.4%	1	2.86	600000
	16.9%	1	2.20	600000
	19.1%	1	2.20	600000
	17.6%	1	2.34	1500000
	16.2%	1	4.30	600000
	19.1%	1	4.92	1500000
	15.8%	1	2.20	1500000
160	10.8%	1	1.88	700000
	19.1%	1	2.20	1500000
	19.1%	1	2.26	700000
	15.4%	1	2.30	1500000
	19.1%	1	2.99	700000
	15.4%	1	1.81	700000
	14.3%	1	2.37	700000
	19.1%	1	1.88	700000
	43.1%	1	2.20	700000
	19.2%	1	2.26	700000
170	14.4%	1	2.38	1500000
	19.1%	1	1.88	800000
	19.2%	1	2.33	800000
	8.5%	2	1.81	700000

	14.0%	1	11.49	700000
	16.8%	1	1.85	700000
	19.2%	1	1.88	700000
	13.8%	1	4.78	700000
	19.2%	1	2.10	700000
	15.6%	1	1.81	700000
180	15.6%	1	2.17	500000
	19.2%	1	1.88	700000
	19.2%	1	2.03	700000
	13.1%	1	1.68	1400000
	13.6%	1	2.33	500000
	14.6%	1	1.98	700000
	13.4%	1	1.88	700000
	33.1%	1	2.05	500000
	32.4%	1	1.81	500000
	19.2%	1	1.85	700000
190	12.1%	1	2.33	500000
	13.2%	2	1.81	700000
	12.9%	1	2.84	500000
	10.9%	1	1.85	1300000
	20.3%	1	1.87	600000
	13.9%	1	1.88	600000
	11.0%	1	1.68	600000
	12.8%	1	1.76	500000
	17.1%	1	2.33	500000
	35.5%	1	1.81	500000
200	17.6%	1	4.03	497700
	12.4%	1	2.33	469200
	10.7%	2	1.68	426600
	11.6%	1	1.85	426600
	12.8%	1	1.72	405200
	10.6%	1	1.85	376800
	12.8%	1	1.72	700000
	7.2%	1	2.84	312800

	19.3%	1	1.81	298600
	13.0%	1	1.68	312800
210	11.3%	1	2.84	291500
	10.4%	1	1.96	277300
	10.4%	1	1.68	270200
	12.8%	1	1.74	270200
	31.2%	1	2.33	270200
	12.8%	1	1.68	263000
	14.3%	1	2.33	263000
	12.2%	1	1.85	277300
	10.1%	1	2.33	270200
	10.2%	1	1.85	277300
220	14.3%	1	1.78	270200
	4.5%	1	1.85	270200
	8.5%	1	1.79	270200
	21.8%	1	2.84	270200
	14.0%	1	1.85	255900
	13.8%	1	1.81	255900
	12.8%	1	2.84	277300
	12.8%	1	1.87	277300
	12.8%	1	1.73	255900
	12.2%	1	11.32	500000
230	13.2%	1	1.68	298600
	12.2%	1	1.68	270200
	31.2%	2	3.92	263000
	15.1%	1	1.68	270200
	14.3%	1	1.70	284400
	14.3%	1	1.72	270200
	9.4%	1	1.61	362600
	10.7%	1	2.84	277300
	10.4%	2	2.84	270200
	9.5%	2	2.84	284400
240	7.0%	2	2.72	277300
	18.1%	1	2.62	277300

	20.4%	1	2.21	284400
	12.2%	1	2.19	277300
	12.2%	1	2.31	270200
	11.7%	1	2.18	298600
	12.4%	1	1.78	298600
	11.1%	1	1.81	291500
	4.5%	1	1.78	319900
	20.9%	1	1.59	305700
250	23.7%	1	2.72	319900
	23.7%	1	2.72	341300
	33.8%	1	1.74	334100
	19.3%	1	1.74	362600
	14.1%	1	1.86	362600
	14.4%	1	2.67	800000
	16.6%	1	2.17	440800
	40.1%	1	1.88	800000
	15.2%	2	2.00	800000
	13.9%	1	1.95	447900
260	13.9%	1	2.01	469200
	16.0%	2	1.99	497700
	14.3%	1	1.98	500000
	14.3%	1	1.96	1000000
	14.9%	1	5.93	1100000
	9.2%	1	4.36	600000
	23.7%	1	2.55	600000
	21.9%	1	2.32	600000
	16.8%	1	2.34	700000
	16.5%	1	11.33	700000
270	16.8%	1	4.93	700000
	16.1%	1	6.90	700000
	16.6%	1	6.90	700000
	17.4%	1	2.95	800000
	33.8%	1	2.41	800000
	33.2%	1	2.34	800000

	15.1%	1	2.40	800000
	22.0%	1	2.39	900000
	43.4%	1	2.54	800000
	22.9%	1	2.72	800000
280	16.2%	1	2.72	800000
	17.4%	1	3.24	1600000
	10.7%	1	2.79	800000
	24.1%	2	2.79	800000
	27.7%	1	2.70	1600000
	18.4%	1	2.69	800000
	16.4%	1	2.86	800000
	16.4%	1	2.88	900000
	17.5%		12.30	900000

**Tabela 72:** 100 Objetos por segundo Runtime Edge Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.1%	6	0.57	0
	2.4%	3	6.90	0
	2.4%	2	0.35	0
	0.9%	1	6.90	0
	0.9%	2	0.14	0
	0.8%	1	0.14	1000000
	10.2%	1	0.15	0
	23.7%	1	0.15	1000000
10	23.7%	1	0.15	0
	5.8%	1	0.15	800000
	1.1%	1	0.49	0
	20.9%	1	0.18	800000
	1.4%	1	0.19	0
	20.9%	1	0.84	0
	1.3%	1	0.20	440800
	12.4%	1	6.90	0

	1.1%	2	6.90	440800
	1.1%	2	0.23	0
20	12.4%	1	0.19	0
	0.7%	1	0.21	0
	1.4%	1	0.25	0
	23.7%	1	0.29	0
	1.5%	1	0.37	0
	23.7%	1	0.32	0
	10.2%	2	0.31	1000000
	1.7%	1	0.32	1000000
	20.9%	1	0.84	0
	2.2%	1	0.86	0
30	20.9%	1	0.56	800000
	10.2%	1	0.84	0
	12.4%	1	0.38	800000
	1.7%	1	0.37	0
	12.4%	1	0.41	440800
	0.8%	1	0.67	440800
	3.6%	1	0.43	0
	9.8%	1	0.55	0
	5.0%	1	0.84	0
	2.3%	1	0.50	0
40	2.4%	1	0.84	0
	10.2%	1	0.49	0
	20.9%	1	0.52	0
	1.4%	1	0.56	1000000
	10.2%	1	0.90	0
	4.2%	1	0.67	1000000
	20.9%	1	0.84	0
	12.4%	1	1.18	0
	3.6%	1	1.24	0
	3.6%	1	0.84	0
50	12.4%	1	0.67	440800
	3.0%	1	0.63	440800



	3.0%	1	0.66	0
	2.7%	1	0.66	0
	5.0%	1	0.67	0
	3.2%	2	0.81	0
	10.2%	1	0.70	0
	1.5%	1	0.62	0
	5.0%	1	0.80	0
	9.7%	1	0.67	0
60	10.2%	1	2.78	0
	4.4%	1	1.09	0
	6.6%	1	0.86	0
	5.0%	1	0.67	0
	4.1%	1	1.03	0
	3.9%	1	0.70	0
	3.8%	1	0.62	0
	5.0%	1	0.67	0
	2.7%	1	0.77	0
	6.7%	1	0.67	0
70	4.5%	1	0.76	0
	2.8%	1	0.62	0
	5.0%	1	0.74	0
	12.2%	1	0.62	0
	16.6%	1	0.62	0
	4.1%	1	0.90	0
	5.0%	1	0.65	0
	5.0%	1	0.64	0
	2.8%	1	0.62	0
	11.4%	1	0.62	0
80	4.1%	1	0.66	0
	4.7%	1	0.76	0
	4.1%	1	0.65	0
	4.6%	1	0.62	0
	3.9%	1	0.66	0
	4.5%	1	0.99	0

	4.1%	1	0.76	0
	2.7%	1	0.70	0
	12.8%	1	0.98	0
	4.1%	1	0.77	0
90	9.9%	1	0.76	0
	4.0%	1	0.79	0
	4.0%	1	1.47	0
	4.1%	1	0.71	0
	3.9%	1	0.76	0
	12.8%	1	0.76	0
	3.9%	1	1.87	0
	3.8%	1	0.76	0
	10.6%	1	1.38	0
	12.8%	1	0.84	0
100	4.5%	1	0.76	0
	4.0%	1	1.19	0
	12.8%	1	0.82	0
	5.9%	1	1.88	0
	12.8%	1	0.94	112
	4.7%	1	1.61	0
	12.8%	1	0.81	0
	2.6%	1	1.88	0
	6.5%	1	1.55	0
	3.7%	1	1.88	0
110	12.8%	1	1.54	0
	8.1%	1	1.88	0
	6.5%	1	1.42	0
	6.3%	2	1.51	0
	4.8%	2	1.50	0
	6.8%	1	1.88	0
	6.5%	1	2.29	0
	5.0%	1	1.88	0
	6.5%	1	1.88	156400
	3.5%	1	1.91	156400

120	6.5%	1	1.92	156400
	15.4%	1	2.04	14200
	6.0%	1	2.19	156400
	9.1%	1	7.15	56900
	9.3%	1	4.15	71100
	11.4%	1	2.76	85300
	6.5%	1	11.42	99500
	6.5%	1	2.76	156400
	9.2%	1	2.06	900000
	11.4%	1	2.04	113800
130	6.5%	1	2.76	156400
	11.4%	1	2.76	156400
	11.4%	1	2.02	900000
	8.7%	1	2.90	900000
	7.7%	1	2.40	900000
	13.6%	1	2.76	213300
	11.3%	1	2.81	270200
	11.4%	1	2.76	298600
	12.1%	1	2.23	327000
	11.4%	1	2.93	600000
140	11.4%	1	2.70	355500
	13.1%	1	2.76	600000
	16.9%	1	2.85	600000
	16.9%	1	2.87	398100
	27.6%	1	5.24	600000
	16.9%	1	2.57	900000
	40.7%	1	2.20	900000
	16.9%	1	2.51	412300
	40.6%	1	2.34	900000
	12.2%	2	2.20	1000000
150	12.0%	1	2.84	600000
	16.9%	1	2.31	1500000
	16.9%	1	2.28	600000
	17.4%	1	2.86	600000

	16.9%	1	2.20	600000
	19.1%	1	2.20	600000
	17.6%	1	2.34	1500000
	16.2%	1	4.30	600000
	19.1%	1	4.92	1500000
	15.8%	1	2.20	1500000
160	10.8%	1	1.88	700000
	19.1%	1	2.20	1500000
	19.1%	1	2.26	700000
	15.4%	1	2.30	1500000
	19.1%	1	2.99	700000
	15.4%	1	1.81	700000
	14.3%	1	2.37	700000
	19.1%	1	1.88	700000
	43.1%	1	2.20	700000
	19.2%	1	2.26	700000
170	14.4%	1	2.38	1500000
	19.1%	1	1.88	800000
	19.2%	1	2.33	800000
	8.5%	2	1.81	700000
	14.0%	1	11.49	700000
	16.8%	1	1.85	700000
	19.2%	1	1.88	700000
	13.8%	1	4.78	700000
	19.2%	1	2.10	700000
	15.6%	1	1.81	700000
180	15.6%	1	2.17	500000
	19.2%	1	1.88	700000
	19.2%	1	2.03	700000
	13.1%	1	1.68	1400000
	13.6%	1	2.33	500000
	14.6%	1	1.98	700000
	13.4%	1	1.88	700000
	33.1%	1	2.05	500000

	32.4%	1	1.81	500000
	19.2%	1	1.85	700000
190	12.1%	1	2.33	500000
	13.2%	2	1.81	700000
	12.9%	1	2.84	500000
	10.9%	1	1.85	1300000
	20.3%	1	1.87	600000
	13.9%	1	1.88	600000
	11.0%	1	1.68	600000
	12.8%	1	1.76	500000
	17.1%	1	2.33	500000
	35.5%	1	1.81	500000
200	17.6%	1	4.03	497700
	12.4%	1	2.33	469200
	10.7%	2	1.68	426600
	11.6%	1	1.85	426600
	12.8%	1	1.72	405200
	10.6%	1	1.85	376800
	12.8%	1	1.72	700000
	7.2%	1	2.84	312800
	19.3%	1	1.81	298600
	13.0%	1	1.68	312800
210	11.3%	1	2.84	291500
	10.4%	1	1.96	277300
	10.4%	1	1.68	270200
	12.8%	1	1.74	270200
	31.2%	1	2.33	270200
	12.8%	1	1.68	263000
	14.3%	1	2.33	263000
	12.2%	1	1.85	277300
	10.1%	1	2.33	270200
	10.2%	1	1.85	277300
220	14.3%	1	1.78	270200
	4.5%	1	1.85	270200

	8.5%	1	1.79	270200
	21.8%	1	2.84	270200
	14.0%	1	1.85	255900
	13.8%	1	1.81	255900
	12.8%	1	2.84	277300
	12.8%	1	1.87	277300
	12.8%	1	1.73	255900
	12.2%	1	11.32	500000
230	13.2%	1	1.68	298600
	12.2%	1	1.68	270200
	31.2%	2	3.92	263000
	15.1%	1	1.68	270200
	14.3%	1	1.70	284400
	14.3%	1	1.72	270200
	9.4%	1	1.61	362600
	10.7%	1	2.84	277300
	10.4%	2	2.84	270200
	9.5%	2	2.84	284400
240	7.0%	2	2.72	277300
	18.1%	1	2.62	277300
	20.4%	1	2.21	284400
	12.2%	1	2.19	277300
	12.2%	1	2.31	270200
	11.7%	1	2.18	298600
	12.4%	1	1.78	298600
	11.1%	1	1.81	291500
	4.5%	1	1.78	319900
	20.9%	1	1.59	305700
250	23.7%	1	2.72	319900
	23.7%	1	2.72	341300
	33.8%	1	1.74	334100
	19.3%	1	1.74	362600
	14.1%	1	1.86	362600
	14.4%	1	2.67	800000

	16.6%	1	2.17	440800
	40.1%	1	1.88	800000
	15.2%	2	2.00	800000
	13.9%	1	1.95	447900
260	13.9%	1	2.01	469200
	16.0%	2	1.99	497700
	14.3%	1	1.98	500000
	14.3%	1	1.96	1000000
	14.9%	1	5.93	1100000
	9.2%	1	4.36	600000
	23.7%	1	2.55	600000
	21.9%	1	2.32	600000
	16.8%	1	2.34	700000
	16.5%	1	11.33	700000
270	16.8%	1	4.93	700000
	16.1%	1	6.90	700000
	16.6%	1	6.90	700000
	17.4%	1	2.95	800000
	33.8%	1	2.41	800000
	33.2%	1	2.34	800000
	15.1%	1	2.40	800000
	22.0%	1	2.39	900000
	43.4%	1	2.54	800000
	22.9%	1	2.72	800000
280	16.2%	1	2.72	800000
	17.4%	1	3.24	1600000
	10.7%	1	2.79	800000
	24.1%	2	2.79	800000
	27.7%	1	2.70	1600000
	18.4%	1	2.69	800000
	16.4%	1	2.86	800000
	16.4%	1	2.88	900000
	17.5%		12.30	900000

### A.2.5 QUINHENTOS OBJETOS POR SEGUNDO

**Tabela 73:** 500 Objetos por segundo Runtime Edge OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
120				
	0.0%	4	0.09	0
	0.0%	12	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	0.00	0
	0.0%	12	0.00	0
	0.0%	26	0.00	0
130	0.0%	26	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0



	0.0%	16	0.00	0
	0.0%	16	0.00	0
140	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.1%	42	0.01	0
	0.1%	20	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.05	0
	0.0%	12	0.00	0
	0.1%	36	0.01	0
150	0.1%	36	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	20	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.02	0
	0.0%	12	0.00	0
	0.1%	36	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
160	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.01	0
	0.0%	22	0.00	0
	0.0%	4	0.00	0
	0.0%	28	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
170	0.0%	12	0.00	0
	0.0%	12	0.00	0

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

	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
210	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%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6		0
	0.0%	2	0.00	0
	0.0%	10		0
	0.0%		0.00	0
220	0.0%	12	0.00	0
	0.0%	4	0.00	
	0.0%		0.00	0
	0.0%	4	0.00	
		2	0.00	0
	0.0%	4	0.00	0
		6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
230	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%	12	0.00	0
	0.0%	12	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

240	0.0%	10	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%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
250	0.0%	12	0.00	0
	0.0%	16	0.01	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	24	0.01	0
	0.0%	14	0.00	0
	0.0%	12	0.01	0
260	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
	0.1%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	24	0.00	0
	0.0%	20	0.00	0
	0.0%	24	0.00	0
	0.0%	14	0.03	0
	0.0%	20	0.00	0
270	0.0%	24	0.01	0
	0.0%	18	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0

	0.0%	14	0.03	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.03	0
	0.0%	20	0.01	0
	0.0%	24	0.00	0
280	0.0%	36	0.00	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.03	0
	0.0%	20	0.01	0
	0.0%	12	0.01	0

**Tabela 74:** 500 Objetos por segundo Runtime Edge OnCollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
130				

	0.6%	4	0.08	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
140	0.0%	2	0.00	
	0.0%	2	0.00	
	0.0%			
				0
				0
		4	0.00	0
	0.0%	2	0.00	0
150	0.0%	4	0.00	0
	0.0%		0.00	
	0.0%		0.00	
	0.0%			
	0.0%			
		2		0
		4		0
160		2	0.00	
		2		
	0.0%			

170				0
			0.00	0
		4	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%		0.00	
	0.0%			
180				
250				
		10		0
		2	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%		0.00	
260	0.0%	4		
		2		0
		2	0.00	0
	0.0%			0
	0.0%			

270				
		8	0.00	
		4	0.00	0
	0.0%		0.00	0
280	0.0%			
	0.0%			

**Tabela 75:** 500 Objetos por segundo Runtime Edge OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				



120				
	0.6%	16	0.09	0
	0.0%	20	0.49	0
	1.8%	346	0.00	0
	0.1%	28	0.00	0
	0.1%	346	0.49	0
	1.8%	142	0.01	0
	0.1%	142	0.01	0
	0.1%	142	0.02	0
130	0.6%	48	0.02	0
	0.6%	52	0.02	0
	0.6%	56	0.03	0
	0.2%	68	0.03	0
	0.3%	84	0.49	0
	0.2%	96	0.05	0
	0.2%	108	0.05	0
	0.4%	120	0.05	0
	0.3%	346	0.07	0
	1.8%	142	0.10	0
140	1.3%	136	0.17	0
	0.6%	142	0.10	0
	0.6%	150	0.10	0
	0.6%	216	0.13	0
	0.7%	236	0.13	0
	1.8%	252	0.31	0
	0.3%	272	0.21	0
	2.0%	620	0.49	0
	1.3%	346	0.15	0
	1.8%	684	0.15	0
150	1.6%	350	0.49	0
	0.9%	420	0.20	0
	3.4%	346	0.18	0
	0.6%	352	0.55	0

	1.3%	368	0.18	0
	1.4%	380	0.19	0
	1.1%	784	0.19	0
	1.1%	408	0.20	0
	1.3%	416	0.18	0
	1.3%	420	0.20	0
160	1.0%	424	0.45	0
	0.7%	420	0.20	0
	1.5%	420	0.22	0
	1.3%	442	0.18	0
	1.5%	420	0.18	0
	1.2%	916	0.20	0
	0.4%	460	0.19	0
	1.0%	444	0.19	0
	1.1%	420	0.14	0
	1.1%	412	0.33	0
170	0.7%	404	0.46	0
	0.4%	526	0.39	0
	0.7%	392	0.15	0
	1.5%	388	0.14	0
	2.2%	728	0.16	0
	0.4%	526	0.13	0
	1.2%	334	0.12	0
	0.4%	526	0.14	0
	0.9%	310	0.13	0
	0.9%	526	0.14	0
180	0.7%	304	0.27	0
	0.4%	290	0.12	0
	1.7%	554	0.14	0
	0.9%	526		0
	0.8%	250	0.10	0
		244	0.18	0
	0.8%			0
	0.2%	230	0.16	0

			0.08	0
	1.0%	376	0.08	0
190	0.7%	178	0.07	0
	0.2%	140	0.19	
	0.2%	172	0.06	0
	0.4%	166	0.19	
	0.4%	140	0.06	0
	0.4%	140	0.19	0
	0.2%	148	0.06	0
	0.3%	150	0.06	0
	0.2%	150	0.07	0
	0.4%	140	0.19	0
200	0.2%	142	0.19	0
	0.5%	140	0.14	0
	0.6%	288	0.08	0
	0.4%	278	0.25	0
	0.8%	134	0.06	0
	0.4%	134	0.05	0
	0.1%	134	0.11	0
	0.3%	134	0.06	0
	0.1%	132	0.11	0
	0.3%	132	0.05	0
210	0.1%	134	0.11	0
	0.3%	134	0.05	0
	0.3%	134	0.06	0
	0.3%	130	0.05	0
	0.3%	128	0.05	0
	0.1%	128	0.11	0
	0.1%	128	0.05	0
	0.6%	128	0.11	0
		128		0
		258		0
220	0.3%	128	0.05	0
	0.3%		0.05	0

	0.3%	256	0.06	
	0.4%		0.06	0
	0.3%	132	0.12	
	0.1%	128	0.08	0
	0.7%	130	0.05	0
	0.4%	128	0.09	0
	0.8%	128	0.12	0
	0.4%	128	0.06	0
230	0.2%	128	0.06	0
	0.4%	128	0.06	0
	0.7%	266	0.07	0
	0.5%	128	0.06	0
	0.4%	130	0.06	0
	0.3%	128	0.06	0
	0.4%	140	0.07	0
	0.9%	128	0.05	0
	0.4%	398	0.07	0
	0.3%	266	0.08	0
240	0.2%	140	0.07	0
	0.4%	152	0.07	0
	0.9%	138	0.07	0
	0.4%	138	0.10	0
	0.3%	140	0.08	0
	0.4%	138	0.31	0
	0.9%	140	0.11	0
	0.9%	152	0.13	0
	0.4%	144	0.49	0
	0.4%	140	0.13	0
250	1.1%	152	0.25	0
	0.9%	152	0.43	0
	0.6%	144	0.17	0
	1.2%	506	0.13	0
	0.9%	142	0.14	0
	0.7%	142	0.18	0

	0.4%	146	0.14	0
	1.5%	152	0.39	0
	1.1%	162	0.36	0
	0.5%	170	0.17	0
260	1.2%	506	0.17	0
	1.1%	182	0.16	0
	1.0%	382	0.17	0
	2.6%	506	0.17	0
	1.0%	204	0.17	0
	1.4%	212	0.17	0
	1.1%	506	0.18	0
	1.1%	218	0.41	0
	0.8%	232	0.18	0
	1.0%	370	0.17	0
270	1.1%	242	0.17	0
	1.0%	506	0.17	0
	1.7%	266	0.68	0
	1.0%	556	0.67	0
	1.0%	280	0.27	0
	1.0%	284	0.17	0
	1.0%	370	0.16	0
	1.4%	326	0.17	0
	1.0%	370	0.17	0
	1.4%	334	0.30	0
280	1.0%	714	0.16	0
	0.4%	368	0.18	0
	1.8%	366	0.32	0
	1.0%	370		0
	1.0%	366		0
	1.0%	370		0
	1.0%	370		0
	0.5%	378		0

**Tabela 76:** 500 Objetos por segundo Runtime Edge OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
100				
	1.0%	2	0.27	32
110	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
	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%	14	0.00	0

120	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%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
130	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
140	0.0%	18	0.00	0
	0.0%	8	0.00	0
	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%	16	0.01	0
	0.0%	14	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
150	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0

	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
160	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	8	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%	4	0.00	0
170	0.0%	20	0.00	0
	0.0%	24	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%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	12	0.00	0
180	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%	24	0.01	0
	0.0%	4	0.00	0



	0.0%	8	0.00	0
	0.0%	12	0.00	0
190	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%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.0%	12	0.00	0
200	0.1%	12	0.01	0
	0.0%	12	0.01	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
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
210	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	24	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
220	0.0%	12	0.00	0
	0.0%	24	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%	28	0.01	0
	0.0%	20	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
230	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
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
240	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
250	0.0%	8	0.00	0
	0.0%	18	0.01	0
	0.0%	2	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.1%	10	0.01	0

	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
260	0.0%	6	0.00	0
	0.0%	18	0.01	0
	0.0%	12	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%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
270	0.0%	12	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%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	34	0.01	0
	0.0%	36	0.02	0
	0.0%	4	0.00	0
280	0.0%	8	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%	4	0.00	0
	0.0%	20	0.00	0

**Tabela 77:** 500 Objetos por segundo Runtime Edge OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
110				
	0.6%	2	0.10	0
	0.0%	6	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%	8	0.01	0
120	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%	10	0.01	0
	0.0%	8	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

130	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.1%	20	0.01	0
140	0.0%	16	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.01	0
	0.0%	16	0.02	0
150	0.0%	14	0.01	0
	0.1%	10	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
160	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0

	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
170	0.0%	8	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.01	0
	0.0%	16	0.01	0
	0.0%	4	0.01	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
180	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.02	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
190	0.0%			
		24	0.01	0
	0.1%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0

	0.0%	8	0.00	0
	0.0%	12	0.01	0
200	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	4	0.00	0
	0.0%	20	0.01	0
	0.1%	16	0.01	0
	0.1%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
210	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.1%	12	0.01	0
	0.1%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	24	0.01	0
220				
	0.0%	12	0.00	0
	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	0.02	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
230	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%	28	0.02	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
240	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
250	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%	12	0.02	0
	0.1%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.1%	10	0.01	0
	0.0%	8	0.00	0
260	0.0%	2	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.1%	8	0.01	0
	0.0%	2	0.00	0



	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.01	0
	0.0%	8	0.00	0
270	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.01	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
280	0.0%	2	0.00	0
	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%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0

**Tabela 78:** 500 Objetos por segundo Runtime Edge OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
110	0.9%	2	0.10	0
	0.1%	8	0.02	0
	0.1%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.02	0
	0.1%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.01	0
	0.1%	8	0.00	0
	0.0%	22	0.02	0
120	0.0%	12	0.01	0
	0.1%	22	0.01	0
	0.1%	18	0.02	0
	0.0%	18	0.01	0
	0.0%	22	0.01	0
	0.1%	18	0.00	0
	0.1%	22	0.01	0
	0.0%	24	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.01	0
130	0.1%	22	0.01	0
	0.1%	24	0.01	0
	0.0%	32	0.01	0
	0.1%	46	0.01	0
	0.1%	48	0.02	0
	0.1%	24	0.02	0
	0.1%	48	0.01	0
	0.0%	48	0.02	0
	0.1%	56	0.03	0
	0.2%	44	0.02	0

140	0.1%	40	0.02	0
	0.0%	28	0.01	0
	0.1%	56	0.03	0
	0.2%	24	0.01	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.02	0
	0.1%	24	0.01	0
	0.0%	24	0.02	0
	0.1%	44	0.04	0
150	0.3%	46	0.05	0
	0.0%	20	0.00	0
	0.0%	18	0.01	0
	0.0%	32	0.02	0
	0.0%	18	0.01	0
	0.1%	18	0.02	0
	0.0%	22	0.00	0
	0.0%	48	0.04	0
	0.2%	14	0.03	0
	0.0%	32	0.01	0
160	0.0%	14	0.02	0
	0.1%	22	0.02	0
	0.1%	32	0.02	0
	0.0%	30	0.01	0
	0.0%	28	0.02	0
	0.0%	64	0.04	0
	0.1%	24	0.01	0
	0.2%	24	0.01	0
	0.0%	32	0.01	0
	0.1%	24	0.01	0
170	0.1%	36	0.02	0
	0.1%	36	0.01	0
	0.2%	36	0.02	0
	0.1%	36	0.02	0

	0.0%	24	0.02	0
	0.0%	52	0.06	0
	0.2%	56	0.01	0
	0.2%	64	0.04	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
180	0.1%	32	0.01	0
	0.1%	36	0.03	0
	0.0%	28	0.01	0
	0.1%	48	0.05	0
	0.2%	60	0.04	0
	0.1%	24	0.01	0
	0.1%	24	0.01	
	0.0%	24		0
	0.1%		0.01	0
		24	0.03	0
190	0.0%	60		
	0.1%	24	0.02	0
			0.03	0
	0.1%	48	0.02	0
	0.1%	28	0.02	0
	0.0%	24	0.01	0
	0.1%	24	0.01	0
	0.1%	32	0.02	0
	0.1%	28	0.02	0
	0.0%	20	0.00	0
200	0.1%	16	0.01	0
	0.0%	24	0.02	0
	0.0%	24	0.01	0
	0.2%	48	0.04	0
	0.2%	48	0.03	0
	0.1%	24	0.03	0
	0.2%	24	0.02	0
	0.2%	24	0.02	0

	0.1%	24	0.02	0
	0.0%	24	0.02	0
210	0.2%	32	0.03	0
	0.1%	28	0.02	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.02	0
	0.1%	32	0.02	0
	0.1%	28	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	48	0.04	
220	0.2%			0
		60	0.03	
	0.1%	36		0
	0.0%		0.01	0
		24	0.00	0
	0.0%	24	0.01	0
	0.0%	36	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.2%	68	0.00	0
230	0.2%	36	0.02	0
	0.0%	36	0.01	0
	0.0%	28	0.01	0
	0.0%	20	0.04	0
	0.1%	48	0.04	0
	0.0%	48	0.02	0
	0.1%	18	0.02	0
	0.1%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
240	0.0%	18	0.01	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
	0.1%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
	0.0%	22	0.01	0
250	0.1%	24	0.02	0
	0.0%	20	0.01	0
	0.0%	14	0.01	0
	0.0%	24	0.01	0
	0.0%	18	0.02	0
	0.1%	40	0.01	0
	0.1%	22	0.02	0
	0.0%	20	0.02	0
	0.0%	16	0.00	0
	0.0%	10	0.01	0
260	0.0%	24	0.01	0
	0.0%	18	0.02	0
	0.0%	24	0.01	0
	0.1%	40	0.04	0
	0.2%	20	0.01	0
	0.0%	24	0.05	0
	0.4%	24	0.01	0
	0.1%	24	0.01	0
	0.1%	14	0.00	0
	0.1%	20	0.02	0
270	0.1%	20	0.01	0
	0.0%	44	0.03	0
	0.0%	48	0.03	0
	0.1%	20	0.01	0
	0.1%	18	0.00	0
	0.1%	18	0.01	0

	0.0%	14	0.01	0
	0.1%	12	0.00	0
	0.0%	14	0.01	0
	0.0%	10	0.01	0
280	0.0%	14	0.01	0
	0.1%	32	0.02	0
	0.1%	18	0.01	0
	0.1%	24	0.01	0
	0.1%	18	0.01	0
	0.1%	18	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0

**Tabela 79:** 500 Objetos por segundo Runtime Edge Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.6%	6	0.48	0
	1.3%	2	4.38	0
	34.1%	1	0.38	0
	34.1%	2	4.38	0
	0.9%	1	0.31	0
	46.1%	1	0.17	0
	46.1%	1	0.18	0
	0.9%	1	2.95	0
10	1.0%	1	2.95	0
	3.3%	1	0.20	500000
	1.4%	1	0.24	500000
	3.3%	1	0.31	0
	1.6%	1	0.32	0
	1.9%	1	2.33	0
	1.9%	1	0.55	0
	1.9%	1	0.60	0

	46.1%	1	2.33	0
	46.1%	1	0.38	0
20	2.1%	1	0.36	0
	2.4%	1	0.42	0
	2.2%	1	0.39	0
	3.3%	1	2.33	0
	2.2%	1	0.43	0
	3.3%	1	0.42	0
	2.3%	1	2.33	0
	2.4%	1	1.93	0
	2.5%	1	1.01	0
	1.0%	1	0.53	0
30	8.4%	1	0.56	0
	15.1%	1	0.57	0
	6.6%	1	0.67	0
	3.3%	1	2.33	0
	3.3%	1	1.26	0
	3.3%	1	0.67	0
	6.6%	1	2.33	0
	3.4%	1	1.65	0
	3.9%	1	1.26	0
	15.2%	1	0.76	0
40	14.9%	1	0.72	0
	6.6%	1	0.78	0
	6.0%	1	1.26	0
	6.6%	1	0.92	0
	5.0%	1	1.26	0
	4.5%	1	1.13	0
	5.0%	1	1.04	0
	3.1%	1	1.14	0
	6.6%	1	1.26	0
	12.4%	1	1.08	0
50	7.3%	1	1.24	0
	6.6%	1	1.26	0



	6.4%	1	1.37	0
	15.6%	2	1.47	0
	7.0%	1	2.93	0
	7.6%	1	1.65	0
	8.5%	1		0
	15.6%		1.73	0
	4.6%	1	7.03	0
	15.6%	1	1.47	0
60	24.9%	1	1.47	
	13.0%	1	2.40	0
		1	1.64	0
	5.9%	1	1.85	0
	30.0%	1	1.47	0
	15.6%	1	1.68	0
	28.1%	1	1.47	0
	15.6%	1	1.55	0
	11.3%	1	1.47	0
	9.4%	1	1.47	0
70	6.5%	1	1.43	0
	15.6%	1	1.35	0
	12.0%	1	1.38	0
	9.0%	1	1.27	0
	9.0%	1	1.39	0
	7.2%	1	1.26	0
	8.6%	1	1.32	0
	7.7%	1	1.26	0
	8.1%	1	1.27	0
	7.2%	1	1.28	0
80	4.7%	1	1.26	0
	13.8%	1	1.25	0
	7.2%	1	1.26	0
	7.2%	1	1.23	0
	7.6%	1	1.26	0
	7.2%	1	1.41	0

	7.6%	1	1.26	0
	8.0%	1	1.24	0
	7.2%	2	1.27	0
	13.4%	1	1.24	0
90	7.7%	1	1.21	0
	7.2%	1	1.86	0
	7.6%	1	2.59	0
	7.7%	1	1.35	0
	8.0%	1	1.25	0
	8.0%	1	1.33	0
	4.3%	1	1.31	0
	8.0%	1	1.52	0
	6.9%	1	1.31	0
	12.4%	1	1.40	0
100	8.9%	1	1.28	0
	8.9%	1	1.34	0
	8.9%	2	1.36	0
	9.4%	2	1.38	0
	7.4%	1	1.31	0
	8.0%	1	1.39	0
	8.0%	2	1.80	0
	8.0%	1	1.68	0
	8.2%	2	1.49	0
	8.9%	1	1.54	0
110	8.9%	2	1.44	0
	8.9%	1	1.68	0
	7.5%	1	2.44	112
	4.7%	1	1.52	112
	13.0%	2	4.44	0
	9.6%	1	2.64	0
	7.5%	1	2.44	0
	8.5%	1	1.54	112
	8.6%	1	1.79	0
	8.3%	1	1.87	0

120	7.3%	1	1.86	0
	11.5%	1	2.44	112
	15.1%	1	2.44	0
	11.5%	1	1.86	112
	10.8%	1	2.04	0
	8.9%	1	2.44	0
	11.5%	1	2.11	112
	16.5%	1	2.39	0
	8.6%	1	2.39	0
	11.5%	1	2.44	113800
130	11.2%	1	13.13	113800
	16.5%	1	2.50	0
	4.9%	1	2.60	0
	11.3%	1	2.52	0
	11.5%	1	3.30	0
	21.5%	1	3.17	113800
	12.5%	1	13.13	0
	16.5%	1	3.56	113800
	16.5%	1	13.13	0
	10.3%	1	3.39	0
140	11.5%	1	3.77	14200
	10.6%	1	3.91	113800
	16.5%	2	13.64	56900
	11.5%	1	13.13	85300
	11.1%	1	4.87	99500
	7.2%	1	13.13	113800
	16.5%	1	5.21	170600
	13.0%	1	2.78	1300000
	14.1%	1	14.63	199100
	14.4%	2	6.73	1100000
150	14.5%	1	5.05	298600
	14.6%	1	12.56	1300000
	14.8%	1	5.09	383900
	9.3%	1	4.81	426600

	22.2%	1	4.84	497700
	47.5%	1	4.48	1300000
	26.1%	2	2.78	1100000
	19.7%	1	2.78	1100000
	20.3%	1	4.85	600000
	45.6%	1	2.78	600000
160	25.2%	1	14.82	1300000
	60.7%	1	11.10	1100000
	38.3%	2	5.40	1500000
	32.9%	1	4.07	800000
	50.6%	1	4.07	1100000
	46.3%	1	4.97	1300000
	17.1%	1	4.73	2700000
	55.1%	2	4.07	900000
	25.2%	1	4.88	1100000
	28.8%	2	4.96	1000000
170	25.2%	1	14.82	1100000
	25.2%	1	10.94	476300
	28.8%	1	13.13	2300000
	30.2%	1	9.71	1100000
	28.0%	2	3.94	2500000
	10.6%	1	4.07	1200000
	10.6%	1	4.07	1300000
	54.4%	1	4.53	2700000
	10.6%	1	4.07	1300000
	35.1%		4.32	1100000
180	35.0%	1	4.42	1300000
	30.2%		19.58	2700000
	29.9%	2	9.07	1400000
	23.2%	1	2.95	476300
	24.0%	1	2.95	1500000
	10.6%	2		476300
	10.6%	2	4.08	476300
	10.6%	1	7.79	2700000

	56.1%	1		1000000
	27.3%	1	7.81	1500000
190	27.2%	1	3.98	1000000
	24.3%	1	4.18	1000000
	15.6%	1	4.38	3300000
	57.5%	1	4.38	1600000
		2	3.70	1500000
	19.1%	2	3.80	1400000
	36.7%	1	4.07	1100000
		1	3.62	1400000
	46.1%	1	3.50	1400000
	46.1%	1	3.23	2700000
200	39.7%	1	3.09	1000000
	34.1%	1	2.78	1400000
	34.1%	1	2.78	1000000
	24.5%	1	20.86	1000000
	21.4%	1	8.03	2700000
	22.9%	1	3.94	2600000
	23.3%	1	3.44	500000
	23.2%	2	3.24	1200000
	13.3%		3.01	1100000
	25.5%	2	3.10	1100000
210	24.7%		3.02	1100000
	10.6%	1	2.88	500000
	56.3%	1	2.78	500000
	52.5%	1	3.94	1000000
	20.0%	1	2.70	2000000
	25.2%	1	3.94	1800000
	25.2%	1	6.28	900000
	13.6%	2		900000
	24.4%	1	5.77	
	24.0%	1		800000
220	17.6%	1	2.98	1500000
	19.6%	3	3.00	

	23.2%	2	3.02	600000
	23.2%	2	3.07	600000
	18.1%	1	2.95	600000
	16.5%	1	2.95	500000
	17.1%	1	6.62	500000
	9.6%	1	3.39	500000
	38.0%	1	3.04	500000
		1	3.20	500000
230	25.2%	1	21.67	500000
		1	9.87	500000
	14.3%	1	4.38	1000000
	18.1%	1	4.38	1000000
	8.9%	1	3.68	511900
	39.3%	1	4.00	497700
	32.3%	1	3.77	476300
	11.2%	1	4.30	490500
	48.7%	1	3.67	476300
	34.1%	1	4.00	476300
240	34.1%	1	3.94	490500
	43.3%	2	4.12	497700
	38.8%	1	3.65	483400
	22.8%	1	3.36	476300
	23.0%	1	3.26	476300
	23.2%	1	3.53	500000
	26.3%	1	3.59	476300
	21.9%	2	3.76	500000
	23.7%	1	3.74	476300
	13.5%	2	3.95	900000
250	28.6%	1	8.45	
	25.9%	1	5.31	900000
	22.2%	1	14.12	
	19.1%	1	4.29	476300
	21.5%	1	3.99	476300
	21.6%	1	3.97	476300

	22.5%	1	13.41	476300
	21.1%	2	4.40	476300
	13.9%	2	9.11	1000000
	46.3%	1	5.94	476300
260	42.2%	1	5.04	476300
	54.8%	1	4.43	476300
	36.0%	1	4.79	490500
	25.0%	1	4.97	1000000
	12.5%	1	4.61	497700
	42.4%	1	14.41	511900
	17.4%	2	9.94	511900
	46.5%	1	10.41	511900
	35.7%	1	5.81	500000
	42.0%	1	5.49	500000
270	26.9%	1	5.67	500000
	28.5%	1	5.72	500000
	29.6%	2	5.42	500000
	27.1%	3	5.49	500000
	52.0%	3	5.32	500000
	28.9%	1	10.24	500000
	50.8%	1	5.67	600000
	45.6%	1	5.03	600000
	32.8%	1	5.27	600000
	34.3%	1	5.26	700000
280	33.7%	1	5.29	700000
	32.3%	1	16.05	1400000
	32.6%	1	27.52	700000
	12.8%	2	16.10	800000
	45.0%		6.18	800000
	42.8%		5.30	900000
	29.7%		5.22	900000
	31.9%		5.61	1800000

**Tabela 80:** 500 Objetos por segundo Runtime Edge Spawn

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.8%	6	0.63	480
	2.4%	4	0.38	320
	2.4%	1	0.41	80
	3.4%	1	0.13	80
	1.2%	1	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
10	0.7%	1	0.14	80
	0.8%	1	0.14	80
	1.0%	1	0.14	80
	0.7%	1	0.12	80
	0.7%	1	0.13	80
	0.9%	1	0.16	80
	0.8%	1	0.14	80
	0.7%	1	0.13	80
	0.8%	1	0.14	80
	1.1%	1	0.20	80
20	1.1%	1	0.31	80
	1.0%	1	0.23	80
	2.8%	1	0.12	80
	0.8%	1	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.12	80
	0.8%	1	0.12	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
30	0.3%	1	0.12	80
	1.5%	2	0.35	160
	2.1%	1	0.14	80



	0.8%	1	0.13	80
	0.8%	1	0.12	80
	0.7%	1	0.14	80
	0.8%	1	0.15	80
	0.9%	1	0.18	80
	1.0%	1	0.18	80
	0.6%	1	0.16	80
40	1.1%	1	0.18	80
	2.1%	1	0.24	80
	1.3%	1	0.17	80
	0.7%	1	0.13	80
	0.8%	1	0.14	80
	1.0%	1	0.17	80
	1.0%	1	0.16	80
	0.7%	1	0.13	80
	0.4%	1	0.13	80
	0.8%	1	0.13	80
50	1.5%	1	0.14	80
	1.0%	1	0.14	80
	0.8%	1	0.14	80
	0.7%	1	0.15	80
	0.9%	1	0.14	80
	0.7%	1	0.15	80
	0.9%	1	0.13	80
	0.8%	1	0.15	80
	0.5%	1	0.26	80
	2.2%	1	0.14	160
60		2		80
	0.4%	1	0.14	
	1.4%		0.14	80
	1.7%	2	0.16	160
	1.3%	1	0.13	80
	1.0%	1	0.14	80
	0.7%	1	0.14	80

	0.7%	1	0.12	80
	0.5%	1	0.12	80
	1.3%	1	0.12	80
70	0.9%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.5%	1	0.12	80
	0.8%	1	0.14	80
	1.6%	1	0.14	80
	0.8%	1	0.16	80
	1.0%	1	0.17	80
	0.7%	1	0.14	80
80	0.7%	1	0.12	80
	0.8%	1	0.14	80
	0.7%	1	0.14	80
	0.8%	1	0.13	80
	0.7%	1	0.12	80
	1.4%	1	0.14	80
	1.0%	1	0.14	80
	0.8%	1	0.13	80
	0.7%	1	0.14	80
	0.7%	1	0.14	80
90	0.7%	1	0.14	80
	0.7%	1	0.12	80
	0.4%	1	0.13	80
	0.7%	1	0.12	80
	1.1%	1	0.13	80
	1.4%	1	0.12	160
	1.0%	1	0.24	80
	0.7%	1	0.12	80
	1.0%	2	0.12	80
	1.0%	1	0.14	80
100	0.9%	1	0.13	80

	0.8%	1	0.12	80
	0.4%	1	0.16	80
	1.3%	1	0.12	80
	1.0%	1	0.13	80
	0.4%	1	0.14	80
	0.8%	1	0.12	80
	0.8%	1	0.12	80
	0.8%	1	0.12	80
	0.8%	1	0.14	80
110	0.7%	1	0.13	80
	0.4%	1	0.13	80
	1.1%	1	0.13	80
	1.1%	1	0.12	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.13	80
	0.8%	1	0.13	80
	0.9%	1	0.13	80
	1.0%	1	0.13	80
120	0.8%	1	0.11	80
	0.7%	1	0.14	80
	0.3%	1	0.13	80
	0.9%	1	0.14	80
	1.8%	1	0.14	80
	1.2%	2	0.19	80
	0.8%	1	0.11	160
	0.7%	1	0.12	160
	0.7%	1	0.15	80
	1.0%	1	0.12	80
130	0.8%	1	0.15	80
	1.0%	1	0.12	80
	0.4%	1	0.12	80
	0.8%	1	0.14	80
	0.7%	1	0.12	80

	0.7%	1	0.15	80
	0.8%	1	0.11	80
	0.4%	1	0.12	80
	1.0%	1	0.15	80
	0.8%	1	0.12	80
140	1.0%	1	0.12	80
	1.9%	1	0.12	80
	1.2%	1	0.12	80
	0.7%	1	0.15	80
	0.7%	1	0.15	80
	0.9%	1	0.12	80
	1.0%	1	0.12	80
	1.0%	1	0.12	80
	0.3%	1	0.12	80
	0.5%	1	0.12	80
150	1.0%	1	0.12	80
	1.6%	1	0.13	80
	1.1%	1	0.12	160
	0.5%	1	0.12	80
	1.6%	2	0.13	80
	0.5%	1	0.12	80
	1.0%	1	0.14	80
	0.5%	1	0.12	160
	0.8%	1	0.25	80
	0.7%	1	0.16	160
160	0.5%	1	0.12	80
	0.8%	2	0.15	80
	0.5%	1	0.12	160
	0.7%	1	0.12	80
	0.5%	2	0.15	80
	0.5%	1	0.12	80
	0.8%	1	0.43	160
	0.8%	1	0.28	160
	1.0%	1	0.14	80

	0.5%	1	0.12	80
170	0.7%	2	0.12	160
	0.7%	1	0.12	80
	1.5%	1	0.13	80
	0.7%	2	0.15	80
	0.5%	1	0.30	160
	0.9%	2	0.12	80
	1.3%	2	0.14	80
	1.5%	1	0.13	160
	1.5%	2	0.12	80
	1.0%	1	0.12	160
180	0.7%	1	0.13	80
	0.8%	1	0.26	80
	0.9%	1	0.12	80
	1.5%	2	0.13	80
	0.4%	1	0.13	80
	1.5%	1	0.14	160
	1.6%	2	0.13	80
	0.7%	1	0.13	80
	1.5%	2	0.12	80
		2	0.13	80
190	0.6%	1	0.13	
	1.2%	1	0.29	80
		1	0.24	160
	1.5%	1	0.13	
	1.1%	1	0.13	160
	0.8%	1	0.13	80
	2.9%	1	0.13	80
	2.9%	2	0.13	80
	0.9%	1	0.13	80
	0.8%	2	0.30	80
200	2.9%	1	0.26	80
	0.6%	1	0.12	80
	2.9%		0.13	80

	1.0%	1		80
	1.1%	1	0.13	80
	0.4%		0.27	80
	2.9%	1		80
	1.8%	1	0.25	80
	1.4%	1	0.12	80
	2.9%	1	0.13	160
210	2.9%	1	0.13	80
	0.5%	1	0.12	80
	0.9%	1	0.13	80
	1.4%	1	0.16	80
	1.0%	1	0.14	80
	0.7%	1	0.13	80
	0.9%	1	0.14	80
	0.7%	1	0.12	80
	0.8%	1	0.13	240
	0.8%	1	0.29	80
220	0.7%	2	0.17	80
	0.4%	1	0.49	80
	1.4%	1	0.12	80
	1.7%	1	0.13	80
	1.4%	1	0.12	80
		1	0.12	160
	1.4%	1	0.15	
		1	0.14	160
	0.9%	1	0.13	
	1.0%	1	0.14	80
230	1.4%	1	0.12	240
	0.4%	1	0.12	80
	1.4%	2	0.12	240
	1.6%		0.12	80
	1.4%	2	0.29	240
	0.4%	1		80
	1.4%			80

	1.5%	1	0.15	80
	0.8%	1	0.14	240
	0.7%	1	0.18	80
240	0.8%	2	0.14	80
	0.7%	1	0.14	240
	0.4%	1	0.43	80
	0.8%	1	0.15	80
	0.9%	3	0.13	240
	0.7%	2	0.17	160
	0.7%	2	0.12	80
	0.7%	1	0.13	80
	0.7%	1	0.12	80
	0.7%	1	0.11	80
250	0.6%	1	0.11	80
	1.4%	1	0.12	80
	0.4%	1	0.12	80
	1.0%	1	0.12	80
	0.4%	1	0.15	80
	1.1%	1	0.13	80
	0.7%	1	0.12	80
	0.8%	1	0.26	80
	1.0%	1	0.15	80
	0.5%	1	0.15	80
260	1.7%	1	0.15	80
	0.8%	1	0.15	80
	0.8%	2	0.12	80
	0.8%	1	0.14	80
	0.8%	1	0.33	80
	1.1%	1	0.15	80
	0.3%	2	0.15	160
	1.3%	1	0.26	80
	1.0%	2	0.14	80
	0.8%	1	0.13	80
270	1.1%	1	0.13	80

	0.8%	3	0.15	80
	0.8%	1	0.13	80
	0.4%	2	0.18	80
	0.8%	1	0.28	160
	0.7%	1	0.14	80
	0.9%	2	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.14	80
	0.8%	1	0.14	80
280	0.9%	1	0.14	80
	0.8%	2	0.13	80
	0.4%	1	0.18	160
	0.0%	2	0.14	160
		1	0.30	160
		1	0.13	80
		1	0.13	80
		1	0.14	80

#### A.2.6 MIL OBJETOS POR SEGUNDO

**Tabela 81:** 1000 Objetos por segundo Runtime Edge On-CollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				



140				
	0.5%	4	0.09	0
	0.0%	12	0.01	0
	0.0%	4	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%	4	0.00	0
	0.0%	12	0.00	0
150	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
	0.0%	28	0.00	0
	0.0%	16	0.01	0
	0.0%	26	0.00	0
	0.0%	12	0.01	0
	0.0%	18	0.00	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
160	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	18	0.00	0
	0.0%	32	0.01	0
	0.0%	28	0.01	0
	0.0%	20	0.01	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
170	0.0%	16	0.00	0
	0.0%	36	0.00	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0

	0.0%	20	0.00	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.00	0
180	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	18	0.00	0
	0.0%	30	0.00	0
	0.0%	14	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	0.01	0
190	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	12	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
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
200	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%	6	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
210	0.0%	10	0.00	0
			0.00	
	0.0%	12		0
	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%	6	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
220	0.0%	2	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%	2	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
230	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
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
240	0.0%	6	0.01	0
	0.0%	6	0.00	0

	0.0%	6	0.00	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
250	0.0%	12	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%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
260	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	22	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
270	0.0%	4	0.00	0
	0.0%	20	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%	38	0.00	0
	0.0%	12	0.01	0
	0.0%	20	0.00	0
	0.0%	14	0.00	0
280	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.1%	28	0.01	0
	0.0%	20	0.01	0
	0.0%	12	0.01	0
	0.0%	28	0.00	0
	0.1%	28	0.01	0
	0.0%	20	0.02	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
290	0.0%	4	0.00	0
	0.0%	36	0.00	0
	0.0%	24	0.01	0
	0.0%	36	0.01	0

**Tabela 82:** 1000 Objetos por segundo Runtime Edge On-CollisionExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

150				
	0.6%	8	0.11	0
	0.0%	4	0.00	0
	0.0%			
	0.0%	4	0.00	0
	0.0%	4	0.00	0
		2	0.00	0
	0.0%			0
160	0.0%	4	0.00	0
	0.0%	6	0.00	
		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%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
170	0.0%	10	0.00	0
	0.0%	2	0.00	0
	0.0%		0.00	0
	0.0%		0.00	0
	0.0%		0.00	0
	0.0%			0
	0.0%			0
		6		0
		2		0
		6		
180			0.00	
			0.00	
	0.0%		0.00	
	0.0%		0.00	

	0.0%			0
	0.0%			0
				0
		4		
		6		
190		8		
		2		
			0.00	
			0.00	
	0.0%		0.00	
	0.0%		0.00	0
	0.0%			0
	0.0%			0
	0.0%			0
				0
200				0
250				
		6		
		2		
			0.00	
			0.00	
260			0.00	
	0.0%			
	0.0%			
	0.0%			0
		4		0
		6		0

		2		
		2		
		6		
		2	0.00	
270			0.00	
			0.00	
	0.0%		0.00	
	0.0%		0.00	
	0.0%		0.00	0
	0.0%		0.00	0
	0.0%		0.00	0
		4		0
		2		0
		4		0
280		2		
		6		
	0.0%		0.00	
	0.0%		0.00	
	0.0%		0.00	
	0.0%		0.00	0
				0
				0
290		4		0

**Tabela 83:** 1000 Objetos por segundo Runtime Edge On-CollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory



10				
140				
	0.5%	4	0.08	0
	0.0%	16	0.00	0
	0.1%	348	0.00	0
	0.3%	20	0.04	0
	2.0%	348	0.04	0
	0.1%	348	0.02	0
	0.1%	68	0.02	0
	0.1%	48	0.02	0
150	0.1%	52	0.04	0
	0.2%	68	0.05	0
	0.1%	80	0.13	0
	0.7%	348	0.05	0
	0.5%	92	0.07	0
	0.3%	128	0.07	0
	0.4%	144	0.36	0
	0.5%	166	0.09	0
	0.3%	194	0.12	0
	1.9%	206	0.37	0
160	1.1%	504	0.36	0
	0.9%	560	0.36	0
	0.8%	292	0.36	0
	0.7%	384	0.15	0

	0.4%	310	0.14	0
	1.4%	384	0.16	0
	1.2%	312	0.15	0
	1.3%	384	0.13	0
	0.6%	384	0.29	0
	1.6%	318	0.17	0
170	1.5%	322	0.17	0
	1.3%	662	0.36	0
	1.2%	688	0.17	0
	1.0%	714	0.17	0
	0.6%	348	0.17	0
	1.7%	364	0.17	0
	0.7%	380	0.20	0
	1.0%	384	0.35	0
	2.0%	384	0.22	0
	1.2%	362	0.19	0
180	1.0%	356	0.17	0
	0.9%	696	0.17	0
	1.0%	340	0.33	0
	0.9%	346	0.17	0
	0.9%	344	0.16	0
	2.0%	342	0.19	0
	0.9%	346	0.17	0
	0.9%	342	0.17	0
	0.5%	346	0.18	0
	1.2%	348	0.14	0
190	0.9%	336	0.15	0
	2.0%	366	0.20	0
	1.1%	640	0.31	0
	0.3%	366	0.14	0
	0.3%	312	0.13	0
	0.8%	292	0.55	0
	0.4%	278	0.14	0
	1.4%	268	0.14	0

	0.9%	366	0.25	0
	0.3%	508	0.11	0
200	0.3%	252	0.16	0
	0.9%	258	0.12	0
	0.7%	256	0.13	0
	0.3%	250	0.15	0
	0.8%	236	0.37	0
	0.5%	416		0
	2.3%	272	0.17	0
			0.10	0
	0.9%	366	0.07	0
	0.3%	272	0.08	0
210	0.4%	172	0.06	0
	0.5%	166	0.07	
	0.4%	148	0.06	0
	0.3%	146	0.09	0
	0.3%	146	0.07	0
	0.4%	272	0.05	0
	0.4%	146	0.29	0
	0.3%	146	0.05	0
	0.1%	144	0.05	0
	0.5%	144	0.05	0
220	0.2%	144	0.25	0
	0.1%	134	0.06	0
	0.3%	144	0.12	0
	0.4%	140	0.06	0
	0.3%	138	0.05	0
	0.4%	134	0.07	0
	0.3%	272	0.05	0
	0.1%	138	0.05	0
	0.1%	134	0.05	0
	0.4%	134	0.12	0
230	0.2%	134	0.05	0
	0.7%	134	0.05	0

	0.2%	134	0.05	0
	0.4%	134	0.05	0
	0.4%	134	0.06	0
	0.3%	134	0.05	0
	0.4%	264	0.06	0
	0.3%	132	0.10	0
	0.4%	134	0.05	0
	0.3%	134	0.06	0
240	0.1%	134	0.08	0
	0.7%	134	0.07	0
	0.4%	136	0.05	0
	0.3%	224	0.06	0
	0.7%	134	0.46	0
	0.3%	134	0.07	0
	0.3%	134	0.09	0
	0.3%	134	0.13	0
	0.3%	138	0.09	0
	0.2%	140	0.10	0
250	0.7%	224	0.07	0
	0.7%	140	0.18	0
	0.4%	140	0.10	0
	0.3%	224	0.08	0
	0.7%	286	0.13	0
	0.4%	144	0.08	0
	0.4%	140	0.10	0
	0.3%	288	0.10	0
	1.5%	724	0.09	0
	1.1%	158	0.12	0
260	0.7%	158	0.20	0
	0.5%	172	0.18	0
	0.8%	180	0.13	0
	0.7%	186	0.18	0
	0.6%	184	0.14	0
	1.5%	724	0.16	0

	0.2%	198	0.13	0
	0.5%	208	0.20	0
	1.5%	724	0.17	0
	0.7%	214	0.18	0
270	0.5%	224	0.55	0
	0.7%	228	0.33	0
	0.9%	470	0.15	0
	0.5%	252	0.17	0
	0.6%	268	0.16	0
	0.6%	270	0.19	0
	0.5%	278	0.41	0
	0.4%	400	0.39	0
	1.0%	302	0.20	0
	0.9%	316	0.18	0
280	0.5%	968	0.18	0
	1.7%	682	0.18	0
	0.9%	352	0.18	0
	1.1%	366	0.17	0
	0.8%	372	0.37	0
	0.9%	724	0.17	0
	1.1%	744	0.15	0
	0.3%	780		0
	1.5%	400		0
	1.8%	400		0
290	1.1%	392		0
	1.0%	392		0
	0.6%	384		0
	0.7%	1180		0

**Tabela 84:** 1000 Objetos por segundo Runtime Edge On-TriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
120				
	1.6%	6	0.27	32
130	0.0%	8	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%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	6	0.00	0
140	0.0%	2	0.00	0
	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%	6	0.00	0
	0.0%	18	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
150	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	20	0.01	0
	0.0%	8	0.00	0
	0.0%	28	0.00	0
	0.0%	20	0.00	0
160	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
170	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0

	0.0%	10	0.00	0
	0.0%	12	0.00	0
180	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
190	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
200	0.0%	24	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
		12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
210	0.0%	24	0.00	0
	0.0%	16	0.01	0



	0.0%			0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	
	0.0%	4	0.00	0
	0.1%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
220	0.0%	4	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.02	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
230	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.1%	12	0.02	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
240	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.00	0

	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	18	0.00	0
	0.0%	12	0.00	0
250	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
260	0.0%	6	0.00	0
	0.0%	12	0.00	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%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
270	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

280	0.0%	6	0.02	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	20	0.00	0
	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.01	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
290	0.0%	8	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0

**Tabela 85:** 1000 Objetos por segundo Runtime Edge On-TriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
130				
	0.0%	2	0.09	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
	0.0%	12	0.00	0
	0.0%	2	0.00	0
140	0.0%	2	0.00	0
	0.1%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.1%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.01	0
150	0.0%	36	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	20	0.01	0
	0.0%	8	0.02	0
	0.0%	32	0.00	0
	0.0%	18	0.01	0
	0.0%	10	0.00	0
160	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.01	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0

	0.1%	10	0.00	0
	0.0%	10	0.01	0
170	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	10	0.01	0
	0.1%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
180	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.1%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.1%	24	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
190	0.0%	12	0.00	0
	0.0%	24	0.01	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.00	0
	0.0%	12	0.00	0
	0.1%	24	0.00	0
200	0.0%	12	0.02	0
		8	0.01	0

	0.0%	12	0.00	0
	0.0%	12	0.00	
	0.0%	12	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12		0
210	0.0%	24	0.01	0
	0.0%	12	0.00	0
	0.0%		0.01	0
	0.0%	16	0.00	0
	0.0%	8	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
220	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.04	0
	0.0%	4	0.00	0
230	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.01	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0

	0.0%	12	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
240	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	18	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.01	0
	0.0%	12	0.00	0
250	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	18	0.00	0
260	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.03	0
	0.0%	12	0.01	0
	0.1%	12	0.00	0
	0.1%	6	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.02	0

270	0.0%	6	0.01	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.02	0
	0.0%	12	0.01	0
	0.0%	8	0.00	0
280	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.01	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	12		0
290	0.0%	12		0
		12		0
		28		0
		2		0

**Tabela 86:** 1000 Objetos por segundo Runtime Edge On-TriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory



10				
130	0.5%	8	0.02	0
	0.1%	8	0.01	0
	0.1%	4	0.00	0
	0.1%	4	0.01	0
	0.0%	4	0.00	0
	0.1%	8	0.00	0
	0.0%	8	0.00	0
	0.1%	20	0.00	0
	0.0%	20	0.00	0
	0.1%	8	0.00	0
140	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	18	0.00	0
	0.1%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	28	0.01	0
150	0.1%	26	0.01	0
	0.1%	32	0.01	0
	0.0%	36	0.06	0
	0.0%	36	0.01	0
	0.0%	10	0.01	0
	0.0%	36	0.01	0
	0.3%	10	0.01	0
	0.0%	36	0.01	0

	0.2%	28	0.01	0
	0.1%	32	0.02	0
160	0.0%	36	0.02	0
	0.1%	54	0.02	0
	0.0%	16	0.00	0
	0.1%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.1%	18	0.03	0
	0.1%	14	0.01	0
170	0.0%	28	0.00	0
	0.0%	36	0.01	0
	0.0%	16	0.04	0
	0.0%	32	0.04	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.1%	16	0.01	0
	0.0%	12	0.01	0
	0.1%	16	0.01	0
	0.1%	12	0.00	0
180	0.0%	16	0.01	0
	0.1%	14	0.00	0
	0.0%	16	0.02	0
	0.1%	16	0.00	0
	0.0%	48	0.03	0
	0.1%	24	0.01	0
	0.0%	16	0.03	0
	0.2%	24	0.02	0
	0.1%	24	0.01	0
	0.0%	16	0.01	0
190	0.0%	24	0.03	0
	0.1%	24	0.01	0

	0.0%	16	0.03	0
	0.0%	24	0.00	0
	0.1%	16	0.01	0
	0.1%	24	0.01	0
	0.0%	16	0.03	0
	0.0%	20	0.03	0
	0.0%	24	0.01	0
	0.1%	24	0.00	0
200	0.0%	16	0.03	0
	0.1%	24	0.00	0
	0.1%	24	0.01	0
	0.0%	16	0.01	0
	0.0%	24	0.02	0
	0.1%	20	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.01	0
	0.1%	24	0.03	0
	0.0%	48	0.01	0
210	0.0%			
	0.1%	24	0.02	0
	0.0%	24	0.01	0
	0.1%	16	0.01	0
	0.1%	12	0.01	0
	0.0%	12	0.01	0
	0.1%	16	0.00	0
	0.1%	16	0.01	0
	0.1%	24	0.03	0
		12	0.00	0
220	0.1%	24	0.04	0
	0.0%	24	0.00	0
	0.1%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	44	0.01	0
	0.0%	16	0.01	0

	0.0%	16	0.01	0
	0.1%	28	0.00	0
	0.0%	20	0.04	0
	0.0%	24	0.00	0
230	0.0%	24	0.03	0
	0.0%	16	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	20	0.02	0
	0.3%	24	0.01	0
	0.0%	48	0.01	0
	0.0%	24	0.01	0
240	0.0%	24	0.01	0
	0.0%	16	0.00	0
	0.0%	20	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.03	0
	0.1%	16	0.01	0
	0.0%	16	0.01	0
	0.1%	24	0.00	0
	0.1%	12	0.01	0
	0.0%	24	0.01	0
250	0.0%	24	0.00	0
	0.0%	12	0.01	0
	0.0%	24	0.00	0
	0.0%	18	0.01	0
	0.0%	14	0.01	0
	0.0%	24	0.00	0
	0.1%	16	0.04	0
	0.0%	18	0.01	0
	0.1%	24	0.01	0
	0.0%	14	0.01	0

260	0.0%	12	0.00	0
	0.0%	10	0.01	0
	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	26	0.00	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	54	0.01	0
	0.0%	10	0.02	0
270	0.1%	12	0.00	0
	0.0%	16	0.03	0
	0.0%	22	0.00	0
	0.0%	8	0.02	0
	0.0%	14	0.01	0
	0.1%	18	0.02	0
	0.2%	18	0.01	0
	0.0%	36	0.01	0
	0.2%	24	0.06	0
	0.0%	12	0.00	0
280	0.0%	12	0.01	0
	0.2%		0.00	0
	0.0%		0.03	0
	0.0%		0.02	0
	0.2%		0.02	0
	0.0%		0.01	0
	0.1%		0.02	0
	0.1%		0.01	0
	0.1%		0.02	0
	0.0%		0.01	0
290	0.2%			0
	0.0%			0
	0.2%			0
	0.0%			0

**Tabela 87:** 1000 Objetos por segundo Runtime Edge On-TriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
130	0.5%	8	0.02	0
	0.1%	8	0.01	0
	0.1%	4	0.00	0
	0.1%	4	0.01	0
	0.0%	4	0.00	0
	0.1%	8	0.00	0
	0.0%	8	0.00	0
	0.1%	20	0.00	0
	0.0%	20	0.00	0
	0.1%	8	0.00	0
140	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	18	0.00	0
	0.1%	10	0.01	0
	0.0%	14	0.01	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	28	0.01	0

150	0.1%	26	0.01	0
	0.1%	32	0.01	0
	0.0%	36	0.06	0
	0.0%	36	0.01	0
	0.0%	10	0.01	0
	0.0%	36	0.01	0
	0.3%	10	0.01	0
	0.0%	36	0.01	0
	0.2%	28	0.01	0
	0.1%	32	0.02	0
160	0.0%	36	0.02	0
	0.1%	54	0.02	0
	0.0%	16	0.00	0
	0.1%	10	0.01	0
	0.0%	10	0.01	0
	0.0%	16	0.00	0
	0.0%	12	0.01	0
	0.0%	16	0.00	0
	0.1%	18	0.03	0
	0.1%	14	0.01	0
170	0.0%	28	0.00	0
	0.0%	36	0.01	0
	0.0%	16	0.04	0
	0.0%	32	0.04	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.1%	16	0.01	0
	0.0%	12	0.01	0
	0.1%	16	0.01	0
	0.1%	12	0.00	0
180	0.0%	16	0.01	0
	0.1%	14	0.00	0
	0.0%	16	0.02	0
	0.1%	16	0.00	0

	0.0%	48	0.03	0
	0.1%	24	0.01	0
	0.0%	16	0.03	0
	0.2%	24	0.02	0
	0.1%	24	0.01	0
	0.0%	16	0.01	0
190	0.0%	24	0.03	0
	0.1%	24	0.01	0
	0.0%	16	0.03	0
	0.0%	24	0.00	0
	0.1%	16	0.01	0
	0.1%	24	0.01	0
	0.0%	16	0.03	0
	0.0%	20	0.03	0
	0.0%	24	0.01	0
	0.1%	24	0.00	0
200	0.0%	16	0.03	0
	0.1%	24	0.00	0
	0.1%	24	0.01	0
	0.0%	16	0.01	0
	0.0%	24	0.02	0
	0.1%	20	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.01	0
	0.1%	24	0.03	0
	0.0%	48	0.01	0
210	0.0%			
	0.1%	24	0.02	0
	0.0%	24	0.01	0
	0.1%	16	0.01	0
	0.1%	12	0.01	0
	0.0%	12	0.01	0
	0.1%	16	0.00	0
	0.1%	16	0.01	0



	0.1%	24	0.03	0
		12	0.00	0
220	0.1%	24	0.04	0
	0.0%	24	0.00	0
	0.1%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	44	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.1%	28	0.00	0
	0.0%	20	0.04	0
	0.0%	24	0.00	0
230	0.0%	24	0.03	0
	0.0%	16	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	20	0.02	0
	0.3%	24	0.01	0
	0.0%	48	0.01	0
	0.0%	24	0.01	0
240	0.0%	24	0.01	0
	0.0%	16	0.00	0
	0.0%	20	0.01	0
	0.0%	24	0.01	0
	0.1%	24	0.03	0
	0.1%	16	0.01	0
	0.0%	16	0.01	0
	0.1%	24	0.00	0
	0.1%	12	0.01	0
	0.0%	24	0.01	0
250	0.0%	24	0.00	0
	0.0%	12	0.01	0

	0.0%	24	0.00	0
	0.0%	18	0.01	0
	0.0%	14	0.01	0
	0.0%	24	0.00	0
	0.1%	16	0.04	0
	0.0%	18	0.01	0
	0.1%	24	0.01	0
	0.0%	14	0.01	0
260	0.0%	12	0.00	0
	0.0%	10	0.01	0
	0.0%	24	0.00	0
	0.0%	24	0.01	0
	0.0%	26	0.00	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	54	0.01	0
	0.0%	10	0.02	0
270	0.1%	12	0.00	0
	0.0%	16	0.03	0
	0.0%	22	0.00	0
	0.0%	8	0.02	0
	0.0%	14	0.01	0
	0.1%	18	0.02	0
	0.2%	18	0.01	0
	0.0%	36	0.01	0
	0.2%	24	0.06	0
	0.0%	12	0.00	0
280	0.0%	12	0.01	0
	0.2%		0.00	0
	0.0%		0.03	0
	0.0%		0.02	0
	0.2%		0.02	0
	0.0%		0.01	0

	0.1%		0.02	0
	0.1%		0.01	0
	0.1%		0.02	0
	0.0%		0.01	0
290	0.2%			0
	0.0%			0
	0.2%			0
	0.0%			0

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.1%	6	0.61	0
	1.9%	3	0.34	0
	2.8%	1	0.24	0
	1.0%	1	0.14	0
	0.9%	1	0.15	0
	0.9%	1	0.15	0
	1.0%	1	0.17	0
	1.2%	1	0.21	0
10	0.5%	1	0.17	0
	4.8%	1	0.42	0
	1.7%	1	0.24	0
	1.5%	1	0.25	0
	1.3%	1	0.23	0
	1.5%	1	0.24	0
	1.7%	1	0.32	0
	2.1%	1	0.32	0
	2.0%	1	0.36	0
	1.4%	1	0.38	0
20	4.3%	1	0.36	0
	2.5%	1	0.37	0

	2.4%	1	0.40	0
	2.3%	1	0.39	0
	2.4%	1	0.40	0
	2.8%	1	0.45	0
	2.6%	1	0.45	0
	2.7%	1	0.47	0
	1.4%	1	0.50	0
	8.5%	2	2.42	0
30	11.9%	1	0.72	0
	3.1%	1	0.55	0
	3.4%	1	0.54	0
	3.2%	1	0.58	0
	4.0%	1	0.59	0
	3.5%	1	0.66	0
	1.9%	1	0.70	0
	14.5%	2	1.46	0
	6.4%	1	0.85	0
	4.9%	1	0.79	0
40	4.4%	1	0.77	0
	5.3%	1	0.88	0
	5.5%	1	0.89	0
	5.2%	1	0.88	0
	5.7%	1	0.97	0
	3.2%	1	0.88	0
	11.6%	1	1.13	0
	7.9%	1	1.07	0
	6.6%	1	1.13	0
	6.6%	1	1.11	0
50	7.2%	1	1.14	0
	7.5%	1	1.26	0
	7.9%	1	1.32	0
	7.2%	1	1.28	0
	5.0%	1	1.40	0
	15.5%	1	1.71	0

	12.6%	1	1.64	0
	5.9%	1	1.64	0
	15.7%	1	3.57	0
	43.5%	2	4.66	0
60	16.4%	1	2.38	0
	12.2%	1	2.10	0
	13.6%	1	2.25	0
	6.4%	1	1.67	0
	14.6%	1	1.60	0
	11.5%	1	1.57	0
	10.4%	1	1.70	0
	11.3%	1	1.88	0
	11.1%	1	1.83	0
	9.8%	1	1.67	0
70	11.5%	1	1.96	0
	8.5%	1	1.54	0
	5.6%	1	1.51	0
	11.1%	1	1.39	0
	10.6%	1	1.27	0
	7.9%	1	1.23	0
	7.8%	1	1.31	0
	7.4%	1	1.27	0
	7.7%	1	1.25	0
	7.3%	1	1.26	0
80	6.8%	1	1.27	0
	4.6%	1	1.19	0
	14.8%	1	1.42	0
	8.2%	1	1.17	0
	7.4%	1	1.22	0
	7.7%	1	1.34	0
	7.9%	1	1.26	0
	4.4%	1	1.22	0
	9.8%	1	2.37	0
	6.5%	1	1.37	0

90	24.9%	2	2.86	0
	9.6%	1	1.27	0
	8.8%	1	1.45	0
	11.4%	1	1.87	0
	7.6%	1	1.25	0
	10.3%	1	1.68	0
	9.6%	1	1.64	0
	10.2%	1	1.62	0
	10.7%	1	1.87	0
	5.6%	1	1.66	0
100	12.5%	1	1.25	0
	9.0%	1	1.22	0
	7.7%	1	1.29	0
	7.5%	1	1.25	0
	7.1%	1	1.20	0
	8.3%	1	1.36	0
	7.4%	1	1.23	0
	6.4%	1	1.25	0
	5.2%	1	1.34	0
	14.8%	1	1.49	0
110	9.7%	1	1.36	0
	8.2%	1	1.39	0
	8.2%	1	1.34	0
	8.4%	1	1.40	0
	7.9%	1	1.40	0
	9.2%	1	1.42	0
	4.7%	1	1.40	0
	6.5%	1	2.44	0
	22.2%	2	2.73	0
	11.6%	1	1.47	0
120	8.3%	1	1.46	0
	8.7%	1	1.39	0
	9.2%	1	1.49	0
	9.1%	1	1.52	0

	8.9%	1	1.52	0
	8.9%	1	1.52	0
	5.2%	1	1.65	0
	24.4%	2	3.03	0
	12.9%	1	1.57	0
	10.9%	1	1.85	112
130	12.9%	1	2.43	0
	11.4%	1	1.60	0
	9.8%	1	1.61	0
	10.0%	1	1.72	0
	9.6%	1	1.63	0
	4.8%	1	1.72	0
	16.9%	1	2.07	0
	12.8%	1	1.75	0
	10.5%	1	1.70	0
	10.9%	1	1.83	0
140	11.8%	1	1.97	0
	11.8%	1	2.01	14200
	12.8%	1	2.07	56900
	11.8%	1	2.11	71100
	5.3%	1	2.05	85300
	21.1%	2	5.95	213300
	37.5%	2	4.68	298600
	17.5%	1	2.44	184900
	15.6%	1	2.51	199100
	15.1%	1	2.66	241700
150	16.9%	1	2.59	284400
	14.5%	1	2.67	327000
	7.3%	1	2.92	398100
	38.2%	2	6.46	900000
	34.7%	1	3.72	500000
	20.8%	1	3.30	600000
	20.4%	1	3.47	700000
	20.8%	1	3.57	700000

	22.5%	1	3.60	700000
	20.4%	1	3.73	800000
160	10.8%	1	3.90	900000
	54.4%	2	19.24	1900000
	51.8%	2	7.95	2100000
	35.5%	1	4.68	1100000
	27.8%	1	4.47	1100000
	28.5%	1	4.84	1200000
	29.1%	1	4.71	1100000
	22.0%	1	4.54	1200000
	15.0%	1	4.67	1200000
	28.1%	2	9.62	2400000
170	52.9%	2	15.35	2500000
	70.6%	2	20.86	2600000
	41.7%	1	5.47	1300000
	31.0%	1	5.11	1300000
	16.3%	1	5.30	1400000
	48.9%	2	10.38	2700000
	49.1%	1	7.27	1400000
	38.2%	1	5.87	1400000
	34.3%	1	5.40	1400000
	31.3%	1	5.03	1300000
180	57.1%	1	15.95	1300000
	56.3%	2	10.45	2500000
	25.7%	1	6.31	1200000
	33.6%	1	5.23	1200000
	34.1%	1	5.31	1200000
	34.2%	1	5.40	1200000
	33.6%	1	5.14	1200000
	30.3%	1	5.05	1200000
	28.7%	1	4.77	1200000
	29.8%	1	4.85	1200000
190	27.4%	1	4.60	1200000
	41.2%	1	15.74	1200000



	50.3%	2	9.59	2300000
	39.2%	1	4.72	1100000
	14.2%	1	4.19	1100000
	46.9%	2	12.44	2100000
	34.0%	1	4.41	1000000
	26.3%	1	4.19	1000000
	12.4%	1	3.98	900000
	42.7%	2	7.77	1800000
200	34.5%	1	4.03	900000
	24.4%	1	4.07	900000
	25.4%	1	4.18	900000
	23.0%	1	3.74	900000
	49.2%	1	13.90	800000
	52.2%	2	8.06	1500000
	43.2%	2	7.56	1300000
	37.1%	1	3.87	600000
	20.8%	1	3.50	600000
210	20.2%	1	3.24	600000
	19.2%	1	3.19	500000
	17.1%	1	2.92	500000
	21.3%	1	3.51	500000
	17.7%	1	2.97	500000
	22.5%	1	3.82	500000
	13.0%	1	3.94	500000
	21.8%	1	3.24	500000
	32.3%	1	4.60	500000
	21.8%	1	3.45	500000
220	20.1%	1	3.27	500000
	20.8%	1	3.32	511900
	11.0%	1	3.37	511900
	37.4%	2	10.44	1000000
	13.2%	1	3.48	511900
	38.6%	2	6.53	1000000

	33.4%	1	3.48	497700
	45.4%	1	12.61	497700
	31.8%	1	3.72	497700
	20.1%	1	3.21	483400
230	18.4%	1	3.18	490500
	20.6%	1	3.20	497700
	19.1%	1	3.29	497700
	10.8%	1	3.33	497700
	41.2%	2	6.94	900000
	37.3%	1	4.41	490500
	24.3%	1	3.85	497700
	22.5%	1	3.68	497700
	22.7%	1	3.81	497700
	23.0%	1	3.74	497700
240	22.8%	1	3.71	497700
	21.4%	1	3.79	497700
	11.0%	1	3.61	497700
	26.9%	1	3.79	497700
	24.3%	1	3.26	497700
	21.7%	1	3.57	497700
	20.0%	1	3.39	511900
	20.1%	1	3.38	500000
	22.0%	1	3.51	504800
	11.4%	1	3.64	511900
250	26.4%	2	10.65	1000000
	41.0%	2	7.24	1000000
	33.1%	1	3.99	500000
	50.6%	1	13.45	500000
	52.3%	2	8.41	1100000
	41.4%	1	5.23	600000
	28.0%	1	4.63	600000
	25.7%	1	4.28	600000
	13.3%	1	4.43	600000
	29.4%	1	4.19	600000

260	28.3%	1	4.07	700000
	25.0%	1	4.25	700000
	26.5%	1	4.74	700000
	28.4%	1	4.09	700000
	23.9%	1	4.04	800000
	25.0%	1	4.14	800000
	24.2%	1	4.31	800000
	15.3%	1	4.34	800000
	46.3%	2	9.26	1800000
	39.8%	1	5.15	1000000
270	29.4%	1	4.62	1000000
	60.4%	1	18.64	1000000
	41.4%	1	5.05	1000000
	28.1%	1	4.57	1100000
	28.9%	1	5.25	1100000
	11.0%	1	5.22	1100000
	51.7%	3	18.31	3500000
	59.3%	2	10.54	2500000
	39.9%	1	5.48	1300000
	32.2%	1	5.22	1300000
280	32.8%	1	5.29	1300000
	52.2%	1	14.99	1300000
	25.9%	2	10.85	2600000
	54.2%	2	13.13	2700000
	59.2%	2	12.10	2800000
	44.2%	1	6.11	1400000
	36.0%	1	6.03	1400000
	36.2%	1	6.02	1400000
	26.8%	1	6.67	1400000
	34.8%	1	15.72	1400000
290	62.4%	3	17.94	4200000
	59.6%	2	12.82	2700000
	31.7%	1	6.08	1300000
	1.6%	1	5.86	1300000

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.5%	6	0.80	480
	2.1%	3	0.37	240
	2.1%	1	0.18	80
	2.1%	1	0.13	80
	0.9%	1	0.13	80
	0.8%	1	0.15	80
	0.9%	1	0.15	80
	0.8%	1	0.13	80
10	0.7%	1	0.13	80
	0.4%	1	0.14	80
	1.6%	1	0.14	80
	1.0%	1	0.14	80
	0.8%	1	0.14	80
	0.9%	1	0.16	80
	0.9%	1	0.14	80
	0.7%	1	0.13	80
	1.0%	1	0.15	80
	0.8%	1	0.13	80
20	0.8%	1	0.18	80
	0.6%	1	0.13	80
	1.5%	1	0.14	80
	0.9%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.15	80
30	0.3%	1	0.14	80
	1.0%	2	0.28	160
	2.2%	1	0.13	80

	0.8%	1	0.14	80
	0.7%	1	0.13	80
	0.8%	1	0.13	80
	0.7%	1	0.15	80
	1.0%	1	0.13	80
	0.7%	1	0.25	80
	0.4%	1	0.16	80
40	2.5%	2	0.25	160
	1.0%	1	0.14	80
	0.8%	1	0.14	80
	0.9%	1	0.16	80
	0.9%	1	0.15	80
	0.8%	1	0.14	80
	0.8%	1	0.13	80
	1.0%	1	0.18	80
	0.5%	1	0.14	80
	0.8%	1	0.14	80
50	1.4%	1	0.13	80
	0.9%	1	0.14	80
	0.8%	1	0.13	80
	0.8%	1	0.15	80
	0.8%	1	0.13	80
	1.1%	1	0.18	80
	0.9%	1	0.15	80
	0.7%	1	0.13	80
	0.5%	1	0.15	80
	1.3%	1	0.14	80
60	1.1%	1	0.14	80
	0.5%	1	0.14	80
	1.0%	1	0.22	80
	3.3%	2	0.36	160
	1.3%	1	0.17	80
	1.1%	1	0.13	80
	0.7%	1	0.18	80

	1.1%	1	0.35	80
	1.3%	1	0.14	80
	1.1%	1	0.12	80
70	1.0%	1	0.14	80
	0.8%	1	0.13	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.9%	1	0.15	80
	0.8%	1	0.14	80
	0.7%	1	0.13	80
	0.6%	1	0.17	80
	1.3%	1	0.17	80
	0.8%	1	0.13	80
80	1.1%	1	0.15	80
	0.9%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
	0.5%	1	0.13	80
	1.4%	1	0.14	80
	1.0%	1	0.14	80
90	0.7%	1	0.12	80
	0.8%	1	0.14	80
	0.7%	1	0.12	80
	0.4%	1	0.12	80
	0.9%	1	0.15	80
	0.6%	1	0.14	80
	0.6%	1	0.25	160
	2.1%	2	0.13	80
	1.0%	1	0.14	80
	0.8%	1	0.13	80
100	0.9%	1	0.15	80

	0.9%	1	0.16	80
	0.7%	1	0.12	80
	0.8%	1	0.13	80
	0.9%	1	0.14	80
	0.8%	1	0.15	80
	0.5%	1	0.16	80
	1.3%	1	0.13	80
	0.9%	1	0.12	80
	0.5%	1	0.13	80
110	0.7%	1	0.12	80
	0.7%	1	0.12	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
	0.7%	1	0.12	80
	0.6%	1	0.12	80
	0.5%	1	0.13	80
	1.2%	1	0.13	80
	0.9%	1	0.13	80
	0.7%	1	0.13	80
120	0.7%	1	0.13	80
	0.9%	1	0.15	80
	0.7%	1	0.13	80
	0.8%	1	0.12	80
	0.8%	1	0.12	80
	0.4%	1	0.24	80
	0.6%	1	0.26	160
	2.1%	2	0.14	80
	1.1%	1	0.25	80
	0.7%	1	0.12	80
130	0.8%	1	0.13	80
	0.8%	1	0.14	80
	0.8%	1	0.14	80
	0.9%	1	0.15	80
	0.7%	1	0.13	80

	0.5%	1	0.16	80
	2.0%	2	0.25	160
	1.0%	1	0.13	80
	0.7%	1	0.11	80
	0.8%	1	0.14	80
140	0.7%	1	0.12	80
	0.8%	1	0.14	80
	0.8%	1	0.12	80
	0.7%	1	0.11	80
	0.7%	1	0.12	80
	0.3%	1	0.11	80
	1.0%	1	0.12	80
	0.9%	1	0.12	80
	0.8%	1	0.13	80
	0.7%	1	0.11	80
150	0.7%	1	0.12	80
	0.7%	1	0.13	80
	0.7%	1	0.11	80
	0.6%	1	0.11	80
	1.3%	1	0.11	80
	0.3%	2	0.80	160
	2.8%	1	0.22	160
	1.8%	2	0.11	80
	0.8%	1	0.12	80
	0.7%	1	0.11	80
160	0.6%	1	0.11	80
	1.0%	1	0.16	80
	0.9%	1	0.16	80
	0.3%	1	0.12	80
	1.3%	2	0.23	160
	1.1%	1	0.12	80
	0.8%	1	0.13	80
	0.8%	1	0.15	80
	0.7%	1	0.12	80



	0.3%	1	0.12	80
170	0.7%	1	0.16	80
	0.8%	2	0.12	80
	0.3%	1	0.33	160
	0.9%	2	0.12	160
	1.6%	2	0.24	160
	1.2%	1	0.17	80
	1.0%	1	0.17	80
	0.8%	1	0.14	80
	0.7%	1	0.12	80
	0.6%	1	0.12	80
180	0.3%	1	0.12	80
	0.7%	2	0.25	160
	2.3%	2	0.67	160
	0.8%	2	0.25	160
	0.8%	1	0.12	80
	0.9%	1	0.14	80
	0.8%	1	0.13	80
	0.4%	1	0.24	80
	1.1%	2	0.12	160
	4.6%	1	0.69	80
190	0.8%	1	0.12	80
	0.8%	1	0.12	80
	0.8%	1	0.13	80
	0.5%	1	0.15	80
	1.4%	2	0.27	160
	0.5%	1	0.12	80
	0.8%	1	0.12	80
	0.9%	1	0.14	80
	0.9%	1	0.14	80
	0.4%	1	0.13	80
200	0.8%	1	0.12	80
	0.7%	1	0.13	80
	0.8%	1	0.18	80

	1.1%	1	0.12	80
	0.7%	1	0.13	80
	0.3%	1	0.15	80
	1.3%	2	0.26	160
	1.2%	1	0.15	80
	0.4%	1	0.13	80
	1.4%	2	0.39	160
210	1.0%	1	0.14	80
	0.9%	1	0.15	80
	0.4%	1	0.14	80
	1.4%	2	0.26	160
	0.8%	1	0.12	80
	1.0%	1	0.12	80
	0.7%	1	0.12	80
	0.7%	1	0.17	80
	1.0%	1	0.16	80
	0.4%	1	0.13	80
220	1.9%	2	0.29	160
	1.6%	2	0.28	160
	1.1%	1	0.12	80
	0.8%	1	0.15	80
	0.8%	1	0.13	80
	0.7%	1	0.13	80
	0.8%	1	0.14	80
	1.0%	1	0.16	80
	0.8%	1	0.13	80
230	0.7%	1	0.14	80
	0.8%	1	0.13	80
	0.4%	1	0.17	80
	1.1%	1	0.16	80
	1.1%	1	0.14	80
	0.8%	1	0.13	80
	0.9%	1	0.14	80

	0.9%	1	0.15	80
	0.4%	1	0.14	80
	1.7%	2	0.47	160
240	0.5%	1	0.14	80
	1.5%	2	0.25	160
	1.3%	1	0.14	80
	0.5%	1	0.14	80
	1.0%	1	0.12	80
	1.0%	1	0.12	80
	0.7%	1	0.12	80
	0.7%	1	0.14	80
	0.9%	1	0.15	80
	0.9%	1	0.13	80
250	0.4%	1	0.14	80
	1.6%	2	0.28	160
	1.1%	1	0.13	80
	0.9%	1	0.15	80
	1.0%	1	0.17	80
	0.9%	1	0.15	80
	0.9%	1	0.14	80
	0.9%	1	0.15	80
	0.7%	1	0.14	80
	0.4%	1	0.15	80
260	0.9%	1	0.14	80
	1.0%	1	0.14	80
	1.0%	1	0.13	80
	0.8%	1	0.13	80
	0.8%	1	0.17	80
	0.7%	1	0.12	80
	0.8%	1	0.13	80
	0.4%	1	0.13	80
	1.0%	2	0.43	160
	1.6%	2	0.29	160
270	1.1%	1	0.13	80

	0.7%	1	0.19	80
	1.7%	2	0.27	160
	1.0%	1	0.13	80
	0.7%	1	0.12	80
	0.7%	1	0.12	80
	0.7%	1	0.16	80
	0.4%	3	0.14	80
	0.9%	1	0.12	160
	0.8%	1	0.13	80
280	0.8%	1	0.13	80
	0.8%	1	0.15	80
	1.2%	1	0.17	80
	0.8%	1	0.14	80
	0.7%	1	0.13	80
	0.7%	1	0.13	80
	0.4%	1	0.12	80
	1.2%	2	0.25	160
	1.1%	1	0.14	80
	0.8%	1	0.12	80
290	0.3%	1	0.14	80
	0.4%	1	0.32	80
	2.6%	2	0.16	80
	1.0%	1	0.13	80