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

Orientador: Doutor Paulo Augusto Nardi

CORNÉLIO PROCÓPIO

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

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

ABSTRACT

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

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

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A.1.1 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
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	0.00	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

		23		
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%	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	0.01	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

quadrosTotal	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		

		48		
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 OnCollisionS-tay2D

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

		54		
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 OnCollisionStay2D

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	0.01	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

		114		
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 OnTriggerE-xit2D

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 OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

		142		
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

quadrosTotal				
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

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 OnCollisionE-
xit2D

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	

quadrosTotal	totalPercent	calls	totalTime	gcMemory
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

A.2.2 DEZ OBJETOS POR SEGUNDO

A.2.3 CINQUENTA OBJETOS POR SEGUNDO

A.2.4 CEM OBJETOS POR SEGUNDO

A.2.5 QUINHENTOS OBJETOS POR SEGUNDO

A.2.6 MIL OBJETOS POR SEGUNDO