# UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ CÂMPUS CORNÉLIO PROCÓPIO DIRETORIA DE GRADUAÇÃO E EDUCAÇÃO PROFISSIONAL DEPARTAMENTO DE COMPUTAÇÃO ENGENHARIA DE SOFTWARE

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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

#### **RESUMO**

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

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

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

#### **ABSTRACT**

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

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

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

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#### A.1 *PRE-RUNTIME*

#### A.1.1 UM OBJETO

Tabela 1: 1 Objeto Pre-Runtime Edge OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.50	1	0.00	0
	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				
L				

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
10				
50				
	1.5%	1	0.26	32
(0)				
60				
260				
200				

**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       0       0       0					
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       0       0       0					
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       0       0       0					
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       0       0       0					
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       0       0       0					
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       0       0       0	10				
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       0       0       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	50				
0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         60					
0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         0.0%       1       0.00       0         60					
0.0%     1     0.00     0       0.0%     1     0.00     0       0.0%     1     0.00     0       0.0%     1     0.00     0       60		0.5%	1	0.09	0
0.0%     1     0.00     0       0.0%     1     0.00     0       0.0%     1     0.00     0       60		0.0%	1	0.00	0
0.0%     1     0.00     0       0.0%     1     0.00     0       60		0.0%	1	0.00	0
60		0.0%	1	0.00	0
60		0.0%	1	0.00	0
		0.0%	1	0.00	0
260	60				
260					
	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
		1		

	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

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

### A.1.2 DEZ OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70					
, 0					
	0.50	1	0.00	0	
	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	
	0.00%	1	0.00		
	0.0%	1			
			0.00		
			0.00	0	
	0.0%	1		0	
100					

110						
110						
110						
110						
110						
110				0.00		
110 0.0% 1 0.00 0		0.0%	1	0.00	0	
120						
120	110					
120	110					
		0.0%	1	0.00	0	
	120					
260						
	260					
	200					

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

quadrosTota	totalPercent	calls	totalTime	gcMemory

10				
10				
90				
	0.5%	1	0.11	0
100				
100				
260				
200				
i company and a second a second and a second a second and				

**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
	0.070		3.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
00				
90	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           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%         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					
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           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           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%         4         0.00         0           0.0		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         0.00         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         3         0.00         0         0           0.0%         3         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         0           0.0%         4         0.00         0         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           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           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%         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%         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           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%         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%         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%         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%         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 <td< th=""><th></th><th>0.0%</th><th>3</th><th>0.00</th><th>0</th></td<>		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%         3         0.00         0           0.0%         3         0.00         0           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         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00 <td< th=""><th></th><th>0.0%</th><th>3</th><th>0.00</th><th>0</th></td<>		0.0%	3	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%         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%         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           0.0%         4         0.00         0           0.0%         4         0.00 <td< th=""><th></th><th>0.0%</th><th>3</th><th>0.00</th><th>0</th></td<>		0.0%	3	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%         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%         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           0.0%         4         0.00         0           0.0%         4         0.00 <td< th=""><th></th><th>0.0%</th><th>4</th><th>0.00</th><th>0</th></td<>		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%         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           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		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           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           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	100	0.0%	4	0.01	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           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           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		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%         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           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           0.0		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%         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         0.00         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%         4         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00 <td< th=""><th></th><th>0.0%</th><th>4</th><th>0.00</th><th>0</th></td<>		0.0%	4	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%         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           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           0.0%         4         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00         0           0.0%         4         0.00 <td< th=""><th></th><th>0.0%</th><th>4</th><th>0.00</th><th>0</th></td<>		0.0%	4	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         0.00         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%         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 <td< th=""><th></th><th>0.0%</th><th>4</th><th>0.00</th><th>0</th></td<>		0.0%	4	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         0.00         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%         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%       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       0.01       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         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         0.0%       4       0.00       0		0.0%	3	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       0.01       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         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         0.0%       4       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%       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%       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         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%       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       0.01       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         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		0.0%	3	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         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		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%       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%       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         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		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%       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%	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
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	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%	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		
<b>7</b> 0					
70					
	0.0%			0	
	0.076	1	0.00		
		1	0.00	0	
	0.0%				
00	0.076	1	0.00	0	
80		1	0.00	0	
			0.00		
00					
90					
	0.0%				
		1		0	
			0.00		
	0.0%				
	0.070	1		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%	1	0.09	U
60	0.6%			
00	0.0%			
		1	0.00	0
		1	0.00	0
				0
				0
70				
70				
		1	0.00	
	0.0%	1	0.00	
	0.070			0
				0
		1	0.00	
80	0.0%	1	0.00	
80	0.070			0
				U
		1	0.00	
	0.0%	1	0.00	
	0.070			

90				
		1		
	0.0%	1		0
	0.070			U
		1		
			0.00	
			0.00	
				_
100	0.0%			0
		1		
		1		
110				
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%		0.00	
	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
100	0.0%	1	0.00	0
100	0.0%	1		
	0.0%	1		
	0.0%	1		
		1		

110			
260			
		1	

Tabela13:10ObjetosPre-RuntimeEdgePhysics2DSimulate

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

			1	
	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	0.10	0
	0.6%	1	0.11	0
50	0.6%	1	0.10	0
30	2.4%	1	0.42	72
	1.3%	1	0.42	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.12	0
	0.7%	1	0.11	0
	1.3%	1	0.12	0
	0.6%	1	0.22	0
60	0.0%	1	0.11	0
	0.7%	1	0.12	0
	1.1%	1	0.12	0
	2.4%	1	0.20	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
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
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
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% 1.1% 1.1% 1.0% 1.0% 1.0% 1.1% 1.1%	1.0%       1         1.1%       1         1.0%       1         1.0%       1         1.1%       1         1.1%       1         1.1%       1         1.2%       1         0.5%       1         3.7%       2         3.9%       1         1.1%       1         1.0%       1         1.2%       1         1.0%       1         1.2%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.0%       1	1.0%       1       0.18         1.1%       1       0.18         1.1%       1       0.18         1.0%       1       0.17         1.0%       1       0.17         1.1%       1       0.18         1.1%       1       0.18         1.2%       1       0.19         0.5%       1       0.17         3.7%       2       0.77         3.9%       1       0.20         1.1%       1       0.18         1.0%       1       0.19         1.3%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.1%       1       0.20         1.1%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.19         1.2%       1       0.

	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
			1	1

	0.7%	1	0.11	0
150				
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 /6	1	0.07	

		1	1	
	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

0.6%     1     0.10     0       0.6%     1     0.10     0       220     0.5%     1     0.09     0       0.6%     1     0.10     0	0 0 0 0 0 0
0.6%     1     0.10     0       220     0.5%     1     0.09     0       0.6%     1     0.10     0	0 0 0
220     0.5%     1     0.09     0       0.6%     1     0.10     0	0
0.6% 1 0.10	0
0.6% 1 0.10	0
	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

## A.1.3 CINQUENTA OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
70				
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

	0.00		0.00		
	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%				
	3.3.5	2	0.00	0	
130	0.0%	6	0.00	0	
	0.0%	6	0.30	0	
	0.070		0.00		
	0.0%	4	0.00	0	
	0.0%	4	0.00	0	
	0.070	+	0.00	U	

	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 OnCollisionE-xit2D

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		

150				
				0
	0.0%		0.00	0
		2		
	0.0%		0.00	0
		2	0.00	
1.00			0.00	
160				
	0.0%			0
	0.0%			0
		2	0.00	
	0.00			
	0.0%			0
		2	0.00	
170				
1/0				
270				
	<u> </u>	<u> </u>		

**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

			1	
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

0.1%         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           0.1%         40         0.01         0           0.2%         48         0.01         0           0.1%         44         0.02         0           0.1%         48         0.01         0           0.1%         48         0.01         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         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           0.1%         48         0.01         0           0.1%         48         0.01         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02		0.0%	32	0.01	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           0.1%         48         0.01         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02		0.1%	32	0.03	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           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         46         0.02         0           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%         54         0.02         0           0.1%         54         0.02		0.0%	32	0.03	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           0.1%         48         0.02         0           0.1%         48         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%         46         0.02         0           0.1%         52         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0		0.2%	34	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           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.04         0           0.1%         48         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02		0.1%	38	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           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         48         0.02         0           0.1%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0		0.1%	40	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%         46         0.02         0           0.1%         46         0.02         0           0.1%         52         0.02         0           0.1%         52         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.1%         54         0.02         0           0.0%         54         0.02         0	130	0.0%	36	0.01	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       0.02       0         140       0.1%       46       0.02       0         0.1%       46       0.02       0         0.1%       52       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54		0.2%	48	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.0%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54		0.1%	44	0.02	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         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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54		0.2%	46	0.01	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         150       0.1%       54       0.02       0         0.1%       54       0.02       0         0.0%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1		0.1%	48	0.01	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1		0.2%	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         150       0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1		0.1%	48	0.02	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         150       0.1%       54       0.02       0         0.0%       54       0.02       0         0.0%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1		0.1%	46	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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1		0.1%	48	0.04	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%       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1%       58		0.1%	48	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%       54       0.02       0         0.1%       54       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1%       58       0.03       0	140	0.1%	46	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%       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%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1%       58       0.03       0		0.1%	46	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         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%       54       0.02       0         0.1%       54       0.02       0         0.1%       56       0.02       0         0.1%       58       0.03       0		0.1%	52	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%       54       0.02       0         0.1%       56       0.02       0         0.1%       58       0.03       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		0.1%	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		0.1%	50	0.02	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		0.1%	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		0.1%	52	0.01	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		0.1%	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		0.1%	64	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	150	0.1%	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		0.1%	54	0.02	0
0.1%     54     0.02     0       0.1%     56     0.02     0       0.1%     58     0.03     0		0.0%	54	0.02	0
0.1%     56     0.02     0       0.1%     58     0.03     0		0.4%	54	0.02	0
0.1% 58 0.03 0		0.1%	54	0.02	0
		0.1%	56	0.02	0
0.00		0.1%	58	0.03	0
0.2%   60   0.02   0		0.2%	60	0.02	0

	0.00		0.00	
	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

	0.007	22	0.00	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				
	1		1	1

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

	I		T	
10				
10				
40				
	1.4%	2	0.26	32
50				
	0.007	1	0.00	0
	0.0%	4	0.00	0
60				
	0.0%	4	0.00	0
	0.070	+	0.00	U

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
	0.0 %	•	0.01	
90				
70	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	U
	0.00		0.00	
	0.0%	2	0.00	0
	0.00		0.00	
	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	
	0.00		0.00		
	0.0%	2	0.00	0	
160					
160					
270					
270					

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				
	0.6%	2	0.11	0
	0.070	_	0.11	· ·
60				
	0.0%	4	0.00	0
		•	0.00	Ŭ
	0.0%			
70				
	l	<u> </u>	<u> </u>	l

		4	0.00	0	
	0.0%				
		2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.070				
80					
00					
			0.01		
	0.0%	4	0.01	0	
	0.070		0.01	0	
	0.007	4	0.00	0	
	0.0%	4	0.00	0	
00					
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	
		1	· ·	<u> </u>	

	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.070	<u> </u>	0.00		
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
1.40			0.00	U
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

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

	0.00%	4	0.00	0
110	0.0%		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
	0.076	"	0.00	V

	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				
	I	l		

**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       1.1%     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	
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	
1.0%     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       1.1%     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	
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	
1.3%     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	
1.2%     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	
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	
1.2%     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     0.22     0       1.1%     1     0.16     0       0.9%     1     0.16     0       1.0%     1     0.16     0	
1.1%     1     0.16     0       0.9%     1     0.16     0       1.0%     1     0.16     0	
0.9%     1     0.16     0       1.0%     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	

1.00%	1	0.15	0
			0
			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
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
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	
1.1%	1	0.25	0
	1	0.25	0
1.9%	1		0
			0
	1.5% 0.9% 1.0% 1.0% 1.2% 1.0% 2.7% 2.3% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1	1.0%       1         0.9%       1         0.7%       1         1.9%       1         1.1%       1         1.5%       1         0.9%       1         1.0%       1         1.0%       1         1.0%       1         2.7%       1         2.3%       1         1.1%       1         1.2%       1         1.1%       1         1.2%       1         1.1%       1         1.1%       1         1.1%       1         1.3%       1         5.5%       1         1.0%       1         1.1%       1         1.2%       1         1.1%       1         1.2%       1         1.1%       1         1.1%       1         1.2%       1         1.1%       1         1.1%       1         1.1%       1         1.1%       1         1.2%       1         1.1%       1         1.1%       1 <td< td=""><td>1.0%       1       0.19         0.9%       1       0.19         0.7%       1       0.20         1.9%       1       0.17         1.1%       1       0.20         1.5%       1       0.20         0.9%       1       0.15         1.0%       1       0.15         1.0%       1       0.20         1.2%       1       0.16         1.0%       1       0.49         2.7%       1       0.20         2.3%       1       0.39         1.1%       1       0.18         1.1%       1       0.22         1.2%       1       0.19         1.1%       1       0.28         2.2%       1       0.19         1.1%       1       0.23         1.1%       1       0.25         1.1%       1       0.25         1.1%       1       0.16         5.5%       1       0.25         1.0%       1       0.18         1.1%       1       0.25         1.0%       1       0.18         1.1%       1       0.</td></td<>	1.0%       1       0.19         0.9%       1       0.19         0.7%       1       0.20         1.9%       1       0.17         1.1%       1       0.20         1.5%       1       0.20         0.9%       1       0.15         1.0%       1       0.15         1.0%       1       0.20         1.2%       1       0.16         1.0%       1       0.49         2.7%       1       0.20         2.3%       1       0.39         1.1%       1       0.18         1.1%       1       0.22         1.2%       1       0.19         1.1%       1       0.28         2.2%       1       0.19         1.1%       1       0.23         1.1%       1       0.25         1.1%       1       0.25         1.1%       1       0.16         5.5%       1       0.25         1.0%       1       0.18         1.1%       1       0.25         1.0%       1       0.18         1.1%       1       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

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
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
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
1.0%	1	0.11	0
0.8%	1	0.11	0
0.7%	1	0.11	0
0.9%	1	0.22	0
	1.3% 1.2% 0.8% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6	1.3%       1         1.2%       1         0.8%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.5%       1         0.5%       1         0.7%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.6%       1         0.7%       1         0.7%       1         0.8%       1         0.7%       1         0.8%       1         0.7%       1	1.3%       1       0.12         1.2%       1       0.12         0.8%       1       0.10         0.6%       1       0.15         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.12         0.6%       1       0.11         0.3%       1       0.16         0.5%       1       0.12         2.6%       1       0.12         2.6%       1       0.12         0.7%       1       0.15         0.7%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       0.11         0.6%       1       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	
	0.25		0.05		
120	0.0%	6	0.00	0	
120	0.0%	6	0.00	0	
	0.051		0.00		
	0.0%	10	0.00	0	

	0.0%	4	0.00	0
	0.070		0.00	
	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	
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	
	0.0% 0.0% 0.0%	0.0%       4         0.0%       6         0.0%       14         0.0%       4         0.0%       4         0.0%       6	0.0%       4       0.00         0.0%       6       0.00         0.0%       14       0.00         0.0%       4       0.00         0.0%       4       0.00         0.0%       6       0.00	0.0%       4       0.00       0         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

**Tabela 22**: 100 Objetos Pre-Runtime Edge OnCollisionE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

90					
0.6% 2 0.10  100  110  0.0% 2 0.00  0.0% 2 0.00  120  120  0 0.000 0					
100	90				
100					
100					
100					
100					
100					
100		0.60	12	0.10	
110		0.6%	2	0.10	
110					
110					
110					
110					
110					
120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100				
120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	110				
120	110				
120					
120					0
120 0.000 0		0.007	12	0.00	
120 0 0.00 0				0.00	
0 0.00 0		0.0%	2		
0 0.00 0					
0 0.00 0					
0 0.00 0					
0 0.00 0					
0 0.00 0					
0 0.00 0					
0 0.00 0	120				
0.00 0	120				
0.00 0					
0.00 0					
0.00 0					
0.00 0					
0.00 0					
0.00 0					
0.00 0					0
				0.00	
0.0% 2				0.00	U
		0.0%	2		
130		1	1	1	1
150	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		
					$\exists$
	0.0%			0	
	0.0%	2	0.00	0	
	0.070	2	0.00		_
			0.00		
					_
150					
130					_
	0.007				
	0.0%		0.00		
		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				

	0.57		0.10	
	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

			1	
	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
			1	

		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
	0.00		0.00	
	0.0%	4	0.00	0
	0.0%			
60				
60				

0.0%	4		
0.00%	4		
0.00%	4		
0.00%	4		
0.00%		0.00	0
1 1 1 1 1 1 1 //			
0.076			
	4	0.00	0
0.0%	4	0.01	0
			0
0.0%		0.00	
0.0%		0.00	0
	4		
0.0%			0
	4	0.00	
0.00%		0.00	0
0.0%	- 4		U
		0.00	
0.0%	2	0.01	0
0.0%	4	0.00	0
			0
	0.0%	0.0% 4 2 0.0% 0.0% 0.0% 4 0.0% 4 0.0% 4 0.0% 2	0.0%       4       0.01         2       0.0%       0.00         0.0%       0.00       0.00         4       0.0%       0.00         0.0%       4       0.00         0.0%       2       0.01

	0.0%	4	0.01		
100	0.070		0.01	0	
100	0.007	2	0.00	U	
	0.0%	2	0.00	0	
				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%	'	0.00	0	
	0.070	4	0.00	0	
	0.0%	4	0.00	0	
	0.0%	4	0.00		
	0.007		0.00	0	
	0.0%	6	0.00	0	
120	0.00		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 OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
50				

	0.6%		0.03	0
	0.070		0.10	
			0.03	
60			0.00	
		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 OnTriggerS-tay2D

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
		0.00	0
			0
0.0%			
	1	0.01	
			0
0.070		0.00	0
			0
0.0%		0.01	0
	4	0.01	0
			0
			0
			0
			0
		0.00	0
0.0%	2		0
0.0%	8	0.03	0
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
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
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0%       4         0.0%       4         0.0%       4         4       4         0.0%       4         0.0%       4         0.0%       4         0.0%       4         0.0%       4         0.0%       4         0.0%       4         0.0%       6         0.0%       6         0.0%       4         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       4         0.0%       4         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.0%       8         0.	4   0.00   0.01   0.00   0.001   0.0%   0.01   0.0%   4   0.00   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   4   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   8   0.00   0.0%   0.0%   8   0.00   0.0%   0.0%   8   0.00   0.0%   0.0%   0.0%   0.00   0.0%   0.0%   0.00   0.0%   0.00   0.0%   0.00   0.0%   0.0%   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

	0.007		0.00	
	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

	1		T	
	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
L	I.	1	<u> </u>	<u> </u>

	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
	2.1%	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
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
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
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
	1.9% 1.7% 3.7% 3.3% 2.3% 3.0% 2.5% 2.5% 3.0% 2.4% 2.4% 2.4% 3.1% 2.5% 3.1% 3.1% 2.6% 3.3% 1.8% 5.7% 8.7% 3.7% 5.0% 4.1% 5.2% 3.4% 7.5% 5.1% 3.7% 4.4% 6.8% 4.6%	1.9%       1         1.7%       1         3.7%       1         3.3%       1         2.3%       1         3.0%       1         2.5%       1         3.0%       1         2.4%       1         2.4%       1         3.1%       1         2.5%       1         3.1%       1         2.5%       1         3.1%       1         3.1%       1         3.3%       1         1.8%       1         5.7%       1         8.7%       1         3.7%       1         5.0%       1         4.1%       1         5.2%       1         3.4%       1         7.5%       1         5.1%       1         3.7%       1         4.4%       1         6.8%       1         4.6%       1	1.9%       1       0.31         1.7%       1       0.30         3.7%       1       0.60         3.3%       1       0.52         2.3%       1       0.40         3.0%       1       0.48         2.5%       1       0.41         2.5%       1       0.42         3.0%       1       0.49         2.4%       1       0.41         2.4%       1       0.41         2.4%       1       0.41         3.1%       1       0.49         2.5%       1       0.41         3.1%       1       0.49         2.5%       1       0.41         3.1%       1       0.49         2.5%       1       0.41         3.1%       1       0.47         2.6%       1       0.46         3.3%       1       0.47         2.6%       1       0.46         3.3%       1       0.54         1.8%       1       0.45         5.7%       1       0.57         5.0%       1       0.86         4.1%       1       0.

	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%	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
i			-1	I

			1	
	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
	1.1% 1.2% 1.2%	1 1 1	0.19 0.21 0.28	0 0 0

## A.1.5 QUINHENTOS OBJETOS

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

Memory

10					$\neg$
10					
70					
	0.5%	8	0.08	0	
	0.00		0.00		
	0.0%	4	0.00	0	
	0.0%				
80					
		4	0.00	0	
	0.007		0.00		
	0.0%				
90		16	0.03	0	
	0.1%	16			
			0.00	0	
	0.0%	4	0.00		_
	0.0%	4		0	$\dashv$
			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
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
	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%			
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% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.3%       10         0.0%       34         0.0%       34         0.0%       34         0.0%       34         0.0%       12         0.0%       6         0.0%       14         0.0%       34         0.0%       4         0.0%       24         0.1%       20         0.0%       10         24       0.0%         0.0%       16	0.3%         10         0.00           0.0%         34         0.01           0.0%         14         0.05           0.0%         34         0.00           0.0%         4         0.00           0.0%         34         0.00           0.0%         6         0.00           0.0%         6         0.00           0.0%         34         0.00           0.0%         4         0.01           0.0%         24         0.00           0.1%         0.01         0.02           24         0.02         0.00           0.0%         16         0.00           0.0%         16         0.00           0.0%         16         0.00           0.0%         16         0.01           0.0%         16         0.00           0.0%         0.00         0.00           0.0%         0.00         0.00           0.0%         0.00         0.00           0.0%         16         0.00           0.0%         0.00         0.00           0.0%         0.00         0.00           0.0%         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 OnCollisionE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
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	
			0.00		
	0.0%	2			
			0.00		
	0.0%	2		0	
140	0.0%	2	0.00		
110	0.0%		0.00		
			0.00		
	0.0%				
				0	
		2			
			0.00		
	0.0%				
	0.070			0	
150				U	
150		2			
		2			
	0.0%				

				0
			0.00	U
		2	0.00	
	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
			0
0.070			
		0.00	0
		0.00	
0.0%		0.00	0
0.070			
		0.00	
	2	0.00	
0.0%			0
			0
0.070	2	0.00	
0.0%		0.00	0
	'	0.00	0
0.070		0.00	
	2		
			0
0.0%	8		
		0.00	0
0.070			0
0.0%		0.00	0
0.070	6	0.00	
0.0%			0
			0
		3.00	
0.070	2	0.00	0
0.0%			0
			0
			0
3.0 /0			
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0%       2         0.0%       2         0.0%       2         0.0%       4         0.0%       4         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       8         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       4	0.0%       2       0.00         0.00       0.00         0.0%       0.00         2       0.0%         2       0.00         0.0%       2         0.0%       0.00         0.0%       0.00         0.0%       0.00         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       2         0.0%       3         0.0%       4         0.0%       4         0.0%       4         0.0%       4         0.0%       8         0.0%       4         0.0%       8         0.0%       4         0.0%       8         0.0%       4         0.0%       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	
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
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
		0.00	0
		0.00	0
		0.00	
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0%       8         0.0%       2         0.0%       2         0.0%       16         0.0%       2         0.0%       18         8       0.0%         0.0%       14         0.0%       2	0.0%       8       0.00         0.0%       2       0.00         0.0%       4       0.00         0.0%       2       0.00         0.0%       16       0.00         0.0%       2       0.00         0.0%       18       0.00         0.0%       0.00       0.00         0.0%       2       0.00         0.0%       2       0.00         0.0%       2       0.00         0.00       0.00         0.00       0.00         0.00       0.00         0.00       0.00         0.00       0.00         0.00       0.00

290		

**Tabela 30**: 500 Objetos Pre-Runtime Edge OnCollisionS-tay2D

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%         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           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         38         0.00         0           0.1%         42         0.00         0           0.1%         42         0.00         0           0.1%         42         0.01         0				T	T
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           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         40         0.00         0           0.1%         42         0.00         0           0.1%         42         0.00         0           0.1%         42         0.01         0           0.1%         42         0.01         0		0.0%	12	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%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         34         0.00         0           0.1%         38         0.00         0           0.1%         42         0.00         0           0.1%         42         0.00         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0		0.0%	12	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%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.02         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         46         0.01         0		0.0%	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           0.0%         40         0.00         0           0.1%         38         0.00         0           0.1%         42         0.00         0           0.1%         42         0.00         0           0.1%         42         0.01         0           0.1%         42         0.01         0           100         0.0%         30         0.01         0           0.1%         42         0.02         0           0.1%         42         0.02         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         46         0.01         0           0.1%         46         0.01         0           0.1%         52         0.		0.0%	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           0.1%         34         0.00         0           0.1%         38         0.00         0           0.1%         42         0.00         0           0.1%         42         0.00         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.02         0           0.1%         42         0.02         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         46         0.01         0           0.1%         46         0.01         0           0.1%         52         0.01         0		0.1%	16	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%         42         0.00         0           0.1%         42         0.01         0           100         0.0%         30         0.01         0           0.1%         42         0.02         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         42         0.01         0           0.1%         46         0.01         0           0.1%         46         0.01         0           0.2%         52         0.		0.1%	16	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%       42       0.02       0         0.1%       42       0.01       0         0.1%       42       0.01       0         0.1%       42       0.01       0         0.1%       46       0.01       0         0.1%       46       0.01       0         0.1%       52       0.01       0         0.1%       52       0.01       0         0.1%       50       0.02       0         0.1%		0.1%	30	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%       42       0.01       0         100       0.0%       30       0.01       0         0.1%       42       0.02       0         0.1%       42       0.02       0         0.1%       42       0.01       0         0.1%       46       0.01       0         0.1%       46       0.01       0         0.1%       42       0.01       0         0.1%       46       0.01       0         0.1%       52       0.01       0         0.1%       52       0.01       0         0.1%       50       0.02       0         110       0.2%       56       0.01       0         0.1%       78       0.01       0         0.1		0.1%	30	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         0.1%       42       0.02       0         0.1%       30       0.01       0         0.1%       42       0.02       0         0.1%       42       0.01       0         0.1%       46       0.01       0         0.1%       46       0.01       0         0.1%       52       0.01       0         0.1%       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	90	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         0.1%       52       0.01       0         0.1%       52       0.01       0         0.1%       50       0.02       0         110       0.2%       56       0.01       0         0.1%       78       0.01       0         0.1%       78       0.01       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         0.1%       42       0.01       0         0.1%       30       0.01       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         0.1%       52       0.01       0         0.1%       52       0.01       0         0.1%       50       0.02       0         110       0.2%       56       0.01       0         0.1%       78       0.01       0         0.1%       78       0.01       0		0.1%	34	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%       42       0.01       0         0.1%       42       0.01       0         0.1%       46       0.01       0         0.1%       46       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         0.1%       78       0.01       0         0.1%       78       0.01       0		0.1%	34	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%       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         0.1%       78       0.01       0         0.1%       78       0.01       0		0.0%	40	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%       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         0.1%       78       0.01       0         0.1%       78       0.01       0		0.1%	38	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         0.1%       52       0.01       0         0.2%       52       0.01       0         0.1%       50       0.02       0         110       0.2%       56       0.01       0         0.1%       78       0.01       0         0.1%       78       0.01       0		0.1%	42	0.00	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		0.1%	42	0.00	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         0.1%       78       0.01       0         0.1%       78       0.01       0		0.1%	30	0.02	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		0.1%	42	0.01	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	100	0.0%	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		0.1%	42	0.02	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		0.1%	30	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		0.1%	42	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		0.1%	46	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		0.1%	46	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%	42	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		0.1%	52	0.01	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%	52	0.01	0
0.2%     60     0.01     0       0.1%     78     0.01     0       0.1%     78     0.01     0		0.1%	50	0.02	0
0.1%     78     0.01     0       0.1%     78     0.01     0	110	0.2%	56	0.01	0
0.1% 78 0.01 0		0.2%	60	0.01	0
		0.1%	78	0.01	0
0.2% 68 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           0.3%         92         0.02         0           0.4%         116         0.03         0           0.4%         116         0.03         0           0.4%         116         0.02         0           0.4%         116         0.02         0           130         0.2%         100         0.02           0.3%         116         0.02         0           0.3%         98         0.03         0           0.4%         116         0.03         0           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         110         0.05 <th></th> <th></th> <th></th> <th></th> <th></th>					
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           0.3%         92         0.02         0           0.2%         100         0.02         0           0.4%         116         0.03         0           0.3%         116         0.02         0           0.3%         116         0.02         0           0.3%         116         0.02         0           0.3%         98         0.03         0           0.4%         98         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         0.13         0         0           0.7%         116         0.08		0.2%	78	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           0.4%         116         0.03         0           0.3%         116         0.02         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           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         0.13         0           0.7%         116         0.08         0           0.5%         116         0.04         0		0.2%	60	0.02	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           0.3%         116         0.02         0           0.3%         116         0.02         0           0.3%         98         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.4%         116         0.03         0           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%         106         0.05         0           0.3%         114         0.03         0		0.1%	58	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           0.4%         116         0.03         0           0.3%         116         0.02         0           0.3%         116         0.02         0           0.3%         98         0.03         0           0.4%         116         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         110         0.05         0           0.7%         116         0.08         0           0.5%         116         0.04         0           0.3%         114         0.03         0           0.5%         106         0.05         0		0.8%	148	0.01	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%         98         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         110         0.05         0           0.7%         116         0.08         0           0.5%         116         0.04         0           0.3%         114         0.03         0           0.5%         106         0.05         0	120	0.3%	78	0.01	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           0.3%         98         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.4%         116         0.03         0           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           0.3%         114         0.03         0           0.3%         114         0.03         0           0.5%         106         0.05         0           0.7%         104         0.06         0		0.2%	74	0.02	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           0.3%         98         0.03         0           0.4%         98         0.03         0           0.4%         98         0.03         0           0.4%         116         0.03         0           0.4%         116         0.03         0           0.2%         104         0.04         0           0.3%         0.13         0           0.3%         110         0.05         0           0.7%         116         0.08         0           0.3%         0.05         0         0           0.3%         114         0.03         0           0.5%         106         0.05         0           0.7%         104         0.06         0           0.7%         104         0.06         0		0.4%	78	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         0.4%       116       0.03       0         0.2%       104       0.04       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%       114       0.03       0         0.5%       106       0.05       0         0.7%       104       0.06       0         0.7%       104       0.05       0         0.7%       104       0.05       0         0.3%       112       0.04       0         0.3%       118		0.3%	82	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           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           0.7%         104         0.06         0           0.7%         122         0.05         0           0.3% <td></td> <td>0.4%</td> <td>116</td> <td>0.03</td> <td>0</td>		0.4%	116	0.03	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         0.4%       116       0.03       0         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         0.3%       0.05       0         0.3%       114       0.03       0         0.5%       106       0.05       0         0.7%       104       0.06       0         0.7%       104       0.06       0         0.7%       122       0.05       0         0.3%       112       0.04       0         0.3%       118       0.04       0		0.4%	86	0.03	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         0.4%       116       0.03       0         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         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         0.3%       112       0.04       0         0.3%       112       0.04       0         0.3%       118       0.04       0		0.3%	92	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         0.4%       116       0.03       0         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         0.3%       112       0.04       0         0.3%       112       0.04       0		0.2%	100	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         0           0.2%         104         0.04         0           0.3%         0.13         0         0           0.3%         110         0.05         0           0.7%         116         0.08         0           0.5%         116         0.04         0           0.3%         0.05         0           0.3%         114         0.03         0           0.5%         106         0.05         0           0.7%         104         0.06         0           0.7%         104         0.05         0           0.7%         122         0.05         0           0.3%         112         0.04         0           0.3%         118         0.04         0		0.4%	116	0.03	0
0.3%       98       0.03       0         0.4%       98       0.03       0         0.4%       116       0.03       0         106       0.03       0       0         0.2%       104       0.04       0         0.3%       110       0.05       0         0.7%       116       0.08       0         0.5%       116       0.04       0         0.3%       0.05       0         0.3%       114       0.03       0         0.5%       106       0.05       0         0.7%       104       0.06       0         0.7%       122       0.05       0         0.3%       112       0.04       0         0.3%       118       0.04       0		0.3%	116	0.02	0
0.4%       98       0.03       0         0.4%       116       0.03       0         106       0.03       0         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         0.3%       0.05       0         0.3%       114       0.03       0         0.5%       106       0.05       0         0.7%       104       0.06       0         0.7%       122       0.05       0         0.3%       112       0.04       0         0.3%       118       0.04       0	130	0.2%	100	0.02	
0.4%       116       0.03       0         106       0.03       0         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         0.3%       0.05       0         0.3%       114       0.03       0         0.5%       106       0.05       0         0.7%       104       0.06       0         0.7%       122       0.05       0         0.3%       112       0.04       0         0.3%       118       0.04       0		0.3%	98	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         0.3%       112       0.04       0         0.3%       118       0.04       0		0.4%	98	0.03	0
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         0.3%       112       0.04       0         0.3%       118       0.04       0		0.4%	116	0.03	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         0.3%       112       0.04       0         0.3%       118       0.04       0			106	0.03	
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		0.2%	104	0.04	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%		0.13	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%	110	0.05	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		0.7%	116	0.08	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		0.5%	116	0.04	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	140		230	0.05	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%		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	0.03	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		0.5%	106	0.05	0
0.7%     122     0.05     0       0.3%     112     0.04     0       0.3%     118     0.04     0		0.7%	104	0.06	0
0.3%     112     0.04     0       0.3%     118     0.04     0		0.2%	114	0.05	0
0.3% 118 0.04 0		0.7%	122	0.05	0
		0.3%	112	0.04	0
0.3%		0.3%	118	0.04	0
0.570   114   0.04   0		0.3%	114	0.04	0

0.69	100	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
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
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
0.3%	134	0.10	0
1.0%	162	0.07	0
0.5%	142	0.05	0
0.3%	134	0.07	0
	0.4% 0.2% 0.8% 0.6% 0.4% 0.3% 0.4% 0.8% 1.0% 0.5% 0.3% 0.4% 0.2% 0.4% 0.2% 0.4% 0.3% 0.3% 0.4% 0.2% 0.4% 0.2% 0.4% 0.2% 0.4% 0.2% 0.4% 0.2% 0.4% 0.2% 0.4% 0.2% 0.4% 0.5%	0.7%       120         0.4%       122         0.4%       118         0.2%       118         0.8%       128         0.6%       122         0.4%       128         0.3%       122         0.4%       122         0.8%       124         1.0%       124         0.5%       122         0.3%       122         0.4%       122         0.2%       118         0.2%       124         0.4%       122         0.3%       132         0.3%       132         0.3%       128         0.3%       124         0.4%       124         0.2%       128         0.4%       124         0.2%       124         0.3%       140         0.4%       132         0.3%       140         0.4%       134         1.0%       162         0.5%       142	0.7%         120         0.04           0.4%         122         0.05           0.4%         118         0.04           0.2%         118         0.46           0.8%         128           0.6%         122         0.05           0.4%         128         0.06           0.3%         122         0.06           0.4%         122         0.46           0.8%         124         0.04           1.0%         124         0.04           0.5%         122         0.46           0.3%         122         0.06           0.4%         122         0.06           0.2%         118         0.08           0.2%         124         0.04           0.2%         124         0.04           0.2%         118         0.05           0.4%         134         0.46           0.3%         132         0.04           0.3%         132         0.06           0.4%         124         0.17           0.2%         128         0.10           0.4%         124         0.06           0.4%         124

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           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           0.6%         282         0.08         0           0.6%         282         0.08         0           0.6%         234         0.07         0           0.8%         230         0.07         0				1	
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%         232         0.08         0           0.7%         226         0.11         0           0.8%         230         0.07         0           0.8%         23		0.3%	128	0.05	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%         282         0.08         0           0.6%         234         0.07         0           0.8%         230         0.07         0           0.8%         236         0.05         0           0.7%         25		0.4%	148	0.17	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%         282         0.08         0           0.6%         234         0.07         0           0.8%         236         0.05         0           0.8%         236         0.05         0           0.7%         254         0.06         0           0.7%         25		0.5%	140	0.16	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%         25		0.3%	144	0.06	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           0.8%         230         0.07         0           0.8%         236         0.05         0           0.7%         254         0.06         0           0.7%         254         0.06         0           1.0%         252         0.07         0           210         0.7		0.3%	146	0.05	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         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         0.8%       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         1.3%       274       0.07       0         1.9%       264       0.09       0         1.9%       550       0.07       0		0.4%	146	0.05	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         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         0.8%       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         1.3%       274       0.07       0         1.9%       264       0.09       0         1.9%       264       0.09       0         1.0%       282       0.11       0	190	0.4%	164	0.04	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         0.8%       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         1.9%       264       0.09       0         1.9%       264       0.09       0         1.0%       282       0.11       0		0.8%	148	0.08	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           0.8%         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           1.3%         274         0.07         0           1.9%         264         0.09         0           1.9%         550         0.07         0           1.0%         28		0.6%	162	0.06	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         1.9%       264       0.09       0         1.9%       550       0.07       0         1.0%       282       0.11       0		0.4%	254	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         1.9%       264       0.09       0         1.9%       550       0.07       0         1.0%       282       0.11       0		0.7%	162	0.05	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         0.8%       230       0.07       0         0.8%       230       0.07       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         1.3%       274       0.07       0         1.9%       264       0.09       0         1.9%       550       0.07       0         1.0%       282       0.11       0		0.3%	176	0.05	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         0.8%       234       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         1.3%       274       0.07       0         1.9%       264       0.09       0         1.9%       550       0.07       0         1.0%       282       0.11       0		0.6%	174	0.06	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		0.5%	184	0.06	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		0.6%	178	0.05	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		1.9%	186	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	200	0.5%	204	0.06	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		0.6%	282	0.08	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		0.6%	210	0.09	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		0.7%	226	0.11	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		0.6%	234	0.07	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%	230	0.07	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%	236	0.05	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		0.7%	254	0.06	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		0.7%	254	0.08	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		1.0%	252	0.07	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	210	0.7%	264	0.06	0
1.9%     264     0.09     0       1.9%     550     0.07     0       1.0%     282     0.11     0		0.4%	270	0.06	0
1.9%     550     0.07     0       1.0%     282     0.11     0		1.3%	274	0.07	0
1.0% 282 0.11 0		1.9%	264	0.09	0
		1.9%	550	0.07	0
0.8% 282 0.11 0		1.0%	282	0.11	0
		0.8%	282	0.11	0
0.5% 286 0.07 0		0.5%	286	0.07	0

1.0%   290   0.08   0		0.00	200	0.07	
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           0.9%         600         0.11         0           0.7%         276         0.12         0           0.9%         262         0.13         0           0.7%         244         0.12         0           0.7%         240         0.11         0           0.7%         232         0.11         0           0.6%         234         0.13         0           0.6%         216         0.13         0           0.6%         212         0.40         0           0.6%         224         0.12         0           0.6%         224         0.12         0           0.5%         218         0.12         0           0.5%         208         0.13         0           0.5%         198         0.		0.8%	298	0.07	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           0.6%         234         0.13         0           0.6%         234         0.13         0           0.6%         210         0.14         0           0.6%         212         0.40         0           0.6%         224         0.12         0           0.6%         224         0.12         0           0.5%         218         0.12         0           0.5%         208         0.13         0           0.5%         198         0.15         0           0.5%         198         0.		1.0%	290	0.08	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         0.6%       234       0.13       0       0         0.6%       216       0.13       0       0         0.6%       212       0.40       0       0         0.6%       224       0.12       0       0         0.6%       224       0.12       0       0         0.5%       218       0.12       0       0         0.5%       218       0.12       0       0         0.5%       198       0.13       0       0         0.5%       198       0.15       0         0.8%       200 <td< td=""><td>220</td><td>0.8%</td><td>298</td><td>0.08</td><td>0</td></td<>	220	0.8%	298	0.08	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           0.6%         216         0.13         0           0.6%         212         0.40         0           0.6%         224         0.12         0           0.6%         224         0.12         0           0.5%         218         0.12         0           0.5%         218         0.12         0           0.5%         298         0.13         0           0.5%         198         0.15         0           0.5%         198         0.15         0           0.8%         200         0.		1.0%	290	0.10	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           0.6%         216         0.13         0           0.6%         212         0.40         0           0.6%         224         0.12         0           0.6%         224         0.12         0           0.6%         224         0.12         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         0.15         0           0.8%         20		1.1%	310	0.10	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           0.6%         216         0.13         0           0.6%         212         0.40         0           0.6%         224         0.12         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%         20		0.9%	294	0.09	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       0.6%     234     0.13     0       0.6%     216     0.13     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		0.7%	308	0.13	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         0.6%       232       0.11       0         0.6%       234       0.13       0         0.6%       210       0.14       0         0.6%       212       0.40       0         0.6%       224       0.12       0         0.6%       224       0.12       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       0.15       0         0.5%       198       0.13       0         0.5%       198       0.15       0         0.5%       188       0.14       0         0.5%       178       0.46       0         0.5%       186       0.41       0         0.5%       186       0.41       0		0.9%	600	0.11	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         0.6%       210       0.14       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%       186       0.41       0         0.5%       186       0.41       0         0.5%       186       0.41       0		3.4%	296	0.11	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         0.6%       210       0.14       0         0.6%       216       0.13       0         0.6%       224       0.12       0         0.6%       224       0.12       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       0.15       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		0.7%	276	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       0.15       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%       186       0.41       0         0.4%       198       0.46       0		0.9%	262	0.13	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%       186       0.41       0         0.4%       198       0.46       0		0.7%	244	0.12	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	230	0.7%	240	0.11	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%       186       0.41       0         0.4%       198       0.46       0		0.7%	232	0.11	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         0.4%       198       0.46       0		0.6%	234	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%       186       0.41       0         0.4%       198       0.46       0		0.7%	210	0.14	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		0.6%	216	0.13	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		0.6%	212	0.40	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%       186       0.41       0         0.4%       198       0.46       0		0.6%	224	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		0.6%	220	0.27	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		0.5%	218	0.12	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		0.5%	208	0.13	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	240	0.9%	392	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		0.5%	198	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		0.5%	198	0.13	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		0.4%	204	0.15	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		0.8%	200	0.17	0
0.5%     182     0.08     0       0.5%     186     0.41     0       0.4%     198     0.46     0		1.5%	188	0.14	0
0.5%     186     0.41     0       0.4%     198     0.46     0		0.5%	178	0.46	0
0.4% 198 0.46 0		0.5%	182	0.08	0
		0.5%	186	0.41	0
250 0.5% 208 0.13 0		0.4%	198	0.46	0
	250	0.5%	208	0.13	0
0.4% 208 0.13 0		0.4%	208	0.13	0

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	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

	0.001	10	0.00	
	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

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	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
	1	1	1	l .

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	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

			I	
	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	
	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
			l .	

	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%	0	0.00	U	
	0.00		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	
	0.070	10	0.01		
150	0.0%	4	0.00	0	
130		4			
	0.0%		0.00	0	
	0.0%	4	0.00	0	
	0.0%	12	0.02	0	
	0.05:		0.01		
	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	0.00	0
		8		0
	0.0%		0.00	
	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%			
	0.070	2	0.00	0
	0.0%	4		
	0.070	-		

			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

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
	1		1	

	1 11 110/2	1 12	0.00	0
	0.0%	12		
	0.00	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

	0.007	12	0.00	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	
	0.070			0
	0.0%	6	0.01	
	0.0%		0.01	0
	0.070			U

	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

	0.00		0.00	
	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	0.070	4		
	0.0%	4	0.00	0
	0.0%		0.00	0
	0.0%	6	0.00	U
				0
	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	1.05	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

7.201	1	1.07	210000
			319900
			0
4.6%	1	1.58	192
7.1%	1	1.05	319900
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
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
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
	18.2% 21.9% 7.0% 7.1% 9.4% 7.8% 9.3% 6.8% 7.6% 7.2% 9.3% 10.2% 9.3% 6.3% 11.1% 7.5% 7.7% 9.8% 7.6% 7.5% 10.8% 10.1% 7.5% 10.8% 7.5% 10.8% 7.5% 9.8% 7.7% 9.8% 7.7% 10.8% 7.5% 10.0%	6.5%       2         4.6%       1         7.1%       1         18.2%       1         21.9%       1         7.0%       1         7.1%       1         9.4%       1         7.8%       1         9.3%       1         6.8%       1         7.6%       1         9.3%       1         10.2%       1         9.3%       1         10.2%       1         9.3%       1         10.2%       1         9.3%       1         10.2%       1         9.8%       1         7.5%       1         10.8%       1         10.1%       1         10.8%       1         10.8%       1         10.8%       1         10.8%       1         10.0%       1	6.5%       2       1.68         4.6%       1       1.58         7.1%       1       1.05         18.2%       1       1.72         21.9%       1       1.16         7.0%       1       1.68         7.1%       1       1.12         9.4%       1       1.60         7.8%       1       1.68         9.3%       1       1.65         9.3%       1       1.15         7.2%       1       1.65         9.3%       1       1.70         10.2%       1       1.27         9.3%       1       1.14         6.3%       1       1.65         11.1%       1       1.16         7.5%       1       1.16         7.7%       1       1.73         9.8%       1       1.18         7.6%       1       1.20         10.1%       1       1.68         7.1%       1       1.26         10.8%       1       1.17         7.5%       1       1.21         9.8%       1       1.68         7.7%       1

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
				800000
1.60	30.8%	1	2.57	100 100
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

## A.1.6 MIL OBJETOS

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.70		0.00	
	0.5%	8	0.08	0
	0.0%	4	0.00	0
	0.0%	4	0.00	U
	0.070			
80				
		4	0.00	0
	0.0%			

		14	0.01	0
90	0.0%	14		
			0.00	0
	0.0%	4		0
			0.00	
			0.00	
	0.0%	4	0.00	0
100				
	0.0%	16	0.00	0
	0.0%	12	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
	0.070			

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
190	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.10	20	0.02	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
	0.070		0.00	V

	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
L	I		-1	l .

			1	
	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
		2		+
	0.0%	2	0.00	0
	0.007	2	0.00	0
120	0.0%	2	0.00	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%				
	0.070	2	0.00		
		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
	0.00		0.00	
	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
	0.0%		0.00	U
	0.00	2	0.00	
	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%			
250	0.070	2	0.00	0
	0.0%		0.00	
	0.076	2	0.00	0
	0.00/		0.00	0
	0.0%		0.00	0
	0.0%	2	0.00	0
	0.00		0.00	
	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 OnCollisionS-tay2D

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
	0.0%	44	0.01	0
	0.270	56	0.01	0
	0.10/		0.01	
	0.1%	82	0.01	0
	0.00	70	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		0.464	100	0.04	
140         0.3%         112         0.06         0           0.3%         116         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           0.7%         114         0.06         0           0.8%         112         0.06         0           0.4%         112         0.05         0           0.5%         114         0.05         0           0.5%         112         0.10         0           0.5%         112         0.10         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.4%         132         0.10         0           0.3%         132         0.10         0           0.5%         126         0.13         0           0.4%         260         0.		0.4%	108	0.04	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           0.5%         112         0.10         0           0.8%         122         0.04         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.4%         132         0.10         0           0.5%         126         0.13         0           0.4%         260         0.07         0           0.3%         126         0.09         0		0.3%	108	0.04	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           0.5%         112         0.10         0           0.8%         122         0.04         0           0.8%         120         0.05         0           0.8%         120         0.05         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           0.5%         126         0.13         0           0.4%         260         0.07         0           160         0.3%         126         0.09         0           0.7%         122         0.	140	0.3%	122	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           0.5%         112         0.10         0           0.8%         122         0.04         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.4%         132         0.10         0           0.3%         132         0.10         0           0.3%         126         0.13         0           0.4%         260         0.07         0           0.3%         126         0.09         0           0.7%         122         0.06         0		0.3%	112	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           0.5%         116         0.05         0           0.8%         122         0.04         0           0.8%         122         0.04         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%         126         0.09         0           0.7%         122         0.06         0           0.3%         126         0.11         0           0.3%         126         0.11         0           0.3%         122         0.		0.3%	106	0.05	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           0.5%         116         0.05         0           0.8%         122         0.04         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         0           0.8%         120         0.05         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%         126         0.09         0           0.7%         122         0.06         0           0.4%         126         0.11         0           0.3%         126         0.		0.1%	114	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%         120         0.05         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           0.5%         12		0.7%	122	0.04	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         0.5%       128       0.06       0         0.5%       128       0.06       0		0.5%	122	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%       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%       126       0.09       0         0.7%       122       0.06       0         0.4%       126       0.11       0         0.3%       126       0.11       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%       114       0.11       0         0.3%       118       0.10       0		0.7%	114	0.06	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%         126         0.09         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%         11		0.8%	112	0.06	0
150         0.3%         116         0.05         0           0.5%         112         0.10         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		0.4%	112	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%       114       0.11       0         0.3%       118       0.10       0		0.5%	114	0.05	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         0.5%       128       0.06       0         0.3%       114       0.11       0         0.3%       114       0.11       0         0.3%       118       0.10       0         170       0.4%       114       0.11       0	150	0.3%	116	0.05	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%       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         0.5%       128       0.06       0         0.3%       114       0.11       0         0.3%       118       0.10       0         170       0.4%       114       0.11       0		0.5%	112	0.10	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         0.5%       128       0.06       0         0.3%       114       0.11       0         0.3%       118       0.10       0         170       0.4%       114       0.11       0		0.8%	122	0.04	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         0.5%       128       0.06       0         0.3%       114       0.11       0         0.3%       118       0.10       0         170       0.4%       114       0.11       0		0.8%	120	0.05	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         0.5%       128       0.06       0         0.3%       114       0.11       0         0.3%       118       0.10       0         170       0.4%       114       0.11       0		0.8%	260	0.18	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%     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		0.6%	122	0.06	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		0.4%	132	0.10	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%	132	0.10	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		0.5%	126	0.13	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		0.4%	260	0.07	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	160	0.3%	260	0.07	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%	126	0.09	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		0.7%	122	0.06	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		0.4%	126	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%	126	0.16	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%	122	0.11	0
0.3%     114     0.11     0       0.3%     118     0.10     0       170     0.4%     114     0.11     0		0.4%	122	0.05	0
0.3%     118     0.10     0       170     0.4%     114     0.11     0		0.5%	128	0.06	0
170 0.4% 114 0.11 0		0.3%	114	0.11	0
		0.3%	118	0.10	0
0.3% 130 0.06 0	170	0.4%	114	0.11	0
		0.3%	130	0.06	0

			1	
	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	
1.8%	260	0.10	0
0.9%	264	0.15	0
1.0%	280	0.08	0
0.8%	286	0.10	0
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
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	
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
	0.9% 1.0% 0.8% 0.4% 1.9% 1.4% 1.1% 0.9% 1.0% 0.8% 3.2% 0.6% 2.5% 1.8% 1.1% 1.1% 0.6% 1.1% 0.7% 0.8% 0.8% 0.6% 0.7% 0.6% 0.7% 0.6% 0.7% 0.6% 0.7% 0.6% 0.9%	0.9%       264         1.0%       280         0.8%       286         0.4%       290         1.9%       292         1.4%       290         1.1%       318         0.9%       288         1.0%       296         0.8%       592         3.2%       308         0.6%       318         2.5%       326         1.8%       332         1.8%       326         1.1%       340         1.1%       340         1.1%       340         1.1%       330         666       646         1.1%       316         0.6%       646         1.1%       318         0.8%       318         0.8%       318         0.8%       318         0.8%       340         0.6%       298         0.7%       540         0.6%       262         254       0.6%         246       0.6%         238       0.3%         246       0.6%         238       0.3%      <	0.9%       264       0.15         1.0%       280       0.08         0.8%       286       0.10         0.4%       290       0.12         1.9%       292       0.10         1.4%       290       0.11         1.1%       318       0.12         0.9%       288       0.10         1.0%       296       0.12         0.8%       592       0.14         3.2%       308       0.17         0.6%       318       0.14         2.5%       326       0.15         1.8%       326       0.15         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       340       0.25         1.1%       316       0.14         0.6%       646       0.14         1.1%       316       0.14         0.8%       0.56         0.6% </td

240	0.9%		0.13	
	0.6%	234	0.13	0
	0.6%	238	0.13	
	0.7%	444	0.11	0
	0.7%	426	0.11	0
			0.10	
	0.6%	330	0.22	0
	0.6%	220	0.23	0
	0.5%	218	0.12	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	0.10	
	1.0%	656	0.15	0
	1.070	050	0.13	U

	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
		1	1	1

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

quadrosTotal	totalPercent	calls	totalTime	gcMemory

			T	1
10				
40				
	1.9%	4	0.34	32
50				
	0.0%	8	0.00	0
	0.0%			
	0.076			
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%		0.00	
	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
<u> </u>				

	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 OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10					
50					
30					
	0.0%	4	0.09	0	
	0.070		0.07		
60	0.0%	8	0.02		
			0.02		
	0.0%				
	0.0%				
				0	
		8			
70					
	0.0%				
	0.070				
			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%		0.05	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%		0.01	0
	0.070	4	0.00	0
	0.0%	4	0.00	0
150	0.0%	4		0
130	0.0%	4	0.01	0
	0.0%	4		0
	0.00	10	0.01	0
	0.0%	12	0.00	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%		0.01	
	0.0%		0.00	
	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
		1,2		
	0.0%		0.00	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
	0.070	10	0.01	0
	0.0%	14	0.00	0
	0.0%	6	0.00	U
		14		0
	0.0%		0.00	0
	0.0%	8	0.00	

		10	0.01	0
	0.007			
	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
	0.070	10	0.01	

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 OnTriggerS-tay2D

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

	0.007	1	0.00	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%	10	0.01	
	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
	0.076		0.00	
180	0.0%	4	0.01	0
100	0.076	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	

	0.00	4	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

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

	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         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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
19.6%     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	
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	
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	
22.2%     1     3.62     383900       18.7%     1     2.96     405200       130     23.0%     1     4.23     355500	
18.7%     1     2.96     405200       130     23.0%     1     4.23     355500	
130 23.0% 1 4.23 355500	
10.00	
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	
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
	1	1		

		1		
	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