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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ANÁLISE COMPARATIVA ENTRE DIFERENTES MÉTODOS DE COLISÃO 2D NA UNITY

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

Orientador: Doutor Paulo Augusto Nardi

CORNÉLIO PROCÓPIO

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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C.2.5 Quinhentos Objetos por segundo
C.2.6 Mil Objetos por segundo

REFERÊNCIAS

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A.1 *PRE-RUNTIME*

A.1.1 UM OBJETO

Tabela 1: 1 Objeto Pre-Runtime Circle OnCollisionEnter2D

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

70		
250		

Tabela 2: 1 Objeto Pre-Runtime Circle OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70	0.5%	1	0.09	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
80	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
90	0.0%	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
100				
250				

Tabela 3: 1 Objeto Pre-Runtime Circle OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40				
	1.6%	1	0.28	32
50				
250				

Tabela 4: 1 Objeto Pre-Runtime Circle OnTriggerExit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.6%	1	0.10	0
70				
250				

Tabela 5: 1 Objeto Pre-Runtime Circle OnTriggerStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40				
	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	0.00	0
	0.0%	1	0.00	0
50	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
		1	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
	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%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	1	0.00	0
		1	0.00	0
70				
250				
	1	l		

Tabela 6: 1 Objeto Pre-Runtime Circle Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.0%	6	0.32	0
	1.0%	2	0.13	0
	1.0%	1	0.08	0
	0.8%	1	0.07	0
	0.5%	1	0.07	0
	0.4%	1	0.08	0
	0.5%	1	0.08	0
	0.4%	1	0.08	0
10	0.5%	1	0.09	0

0.5%	1	0.08	0
0.5%			
0.5 /6	1	0.08	0
0.4%	1	0.09	0
0.5%	1	0.07	0
0.5%	1	0.07	0
0.4%	1	0.08	0
0.4%	1	0.07	0
0.5%	1	0.08	0
0.4%	1	0.08	0
0.4%			
	1	0.08	0
0.4%	1	0.08	0
0.5%	1	0.07	0
0.4%	1	0.07	0
0.4%	1	0.07	0
0.5%	1	0.09	0
0.5%	1	0.08	0
0.5%	1	0.08	0
0.4%	1	0.07	0
0.4%	1	0.07	0
0.5%	1	0.08	0
0.3%	1	0.08	0
0.3%	1	0.07	0
2.8%	2	0.15	0
0.5%	1	0.08	0
0.5%	1	0.08	0
0.4%	1	0.08	0
0.4%	1	0.07	0
0.5%	1	0.08	0
0.4%	1	0.08	0
0.5%	1	0.08	0
0.5%	1	0.09	0
0.5%	1	0.08	0
2.5%	1	0.42	72
	0.5% 0.4% 0.5% 0.4% 0.4% 0.5% 0.5% 0.5% 0.4% 0.5% 0.3% 0.3% 0.3% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5%	0.5% 1 0.4% 1 0.5% 1 0.4% 1 0.4% 1 0.4% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.4% 1 0.4% 1 0.3% 1 0.3% 1 0.3% 1 0.5% 1 0.5% 1 0.4% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1 0.5% 1	0.5% 1 0.07 0.4% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.5% 1 0.07 0.4% 1 0.07 0.4% 1 0.07 0.5% 1 0.08 0.5% 1 0.08 0.4% 1 0.07 0.4% 1 0.07 0.5% 1 0.08 0.3% 1 0.08 0.3% 1 0.08 0.3% 1 0.08 0.5% 1 0.08 0.5% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.4% 1 0.08 0.5% 1 0.08 0.5% 1 0.08 0.5% 1 0.08 0.5% 1 0.

			1	
	1.2%	1	0.20	0
	0.6%	1	0.10	0
	0.5%	1	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
50	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.6%	1	0.10	0
	0.5%	1	0.09	0
	0.9%	2	0.16	0
	0.5%	1	0.09	0
60	0.6%	1	0.09	0
	0.5%	1	0.09	0
	0.3%	1	0.09	0
	0.5%	1	0.13	0
	2.3%	2	0.12	0
	0.7%	1	0.11	0
	0.5%	1	0.09	0
	1.2%	1	0.20	0
	0.5%	1	0.09	0
	0.5%	1	0.08	0
70	0.5%	1	0.09	0
	1.4%	1	0.23	3600
	1.2%	1	0.22	3600
	0.8%	1	0.13	3600
	0.9%	1	0.16	3600
	0.8%	1	0.12	3600
	0.8%	1	0.13	3600
	0.7%	1	0.12	3600
	0.6%	1	0.10	3600
	-			•

	0.554		0.41	2.505
	0.6%	1	0.11	3600
80	0.6%	1	0.11	3600
	0.7%	1	0.12	3600
	0.6%	1	0.11	3600
	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
	0.6%	1	0.11	3600
	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
90	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
	0.4%	1	0.12	3600
	0.8%	1	0.20	3600
	2.3%	1	0.12	3600
	0.8%	1	0.12	3600
	0.7%	1	0.12	3600
	0.7%	1	0.12	3600
	0.8%	1	0.12	3600
	0.7%	1	0.13	3600
100	0.1%	1	0.02	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
110	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 0.01 0 0.0% 1 0.00 0 0.0% 1 0.01 0 0.0% 1 0.00 0 0.0% 1 0.00 0 120 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	
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0.0% 1 0.00 0	
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0.0% 1 0.01 0	
0.5% 1 0.02 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
130 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	
0.0% 1 0.00 0	
0.0% 1 0.00 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
0.0% 1 0.01 0	
140 0.0% 1 0.00 0	
0.0% 1 0.00 0	
0.0% 1 0.01 0	
0.0% 1 0.00 0	
0.0% 1 0.00 0	
0.0% 1 0.00 0	
0.0% 1 0.00 0	

	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
150	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.01	0
	0.3%	1	0.02	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
160	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
170	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
	0.0%	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
180	0.0%	1	0.00	0
	1 0.0,0			~

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.03	0
	0.3%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
190	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.02	0
	0.0%	1	0.01	0
200	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
210	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.7%	1	0.03	0
	0.7%	1	0.03	U

				_
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
220	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
230	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	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
240	0.0%	1	0.00	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	1	0.02	0
	0.3%	1	0.02	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
250	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.0%	1	0.01	0
	0.1%	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

A.1.2 DEZ OBJETOS

Tabela 7: 10 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	1.4%	1	0.08	0
	0.0%	2	0.00	0
	0.0%			
		2	0.00	0

		1			
	0.0%	1	0.00	0	
	0.0%	1			
			0.00	0	
70	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
80	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.070		0.00		
90					
90					
	0.05		0.00		
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
100					

	0.0%	2	0.00	0	
110			0.00		
110	0.0%				
		2	0.00	0	
	0.007		0.00		
	0.0%				
120					
		2	0.00	0	
	0.0%	2			
	0.070				
130					
170			0.00	0	
170	0.007	2	0.00		
	0.0%	2		0	

			0.00	
			0.00	_
	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
	0.070	1	0.00	0
190				
	0.0%	1	0.00	0
200				
	0.0%	2	0.00	0
	1.3,2			-
	0.0%	2	0.00	0

	0.1%	2	0.00	0	
210					
210					
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.070		0.00		
	0.0%	2	0.00	0	
220					
290					

Tabela 8: 10 Objetos Pre-Runtime Circle OnCollisionE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

90					
80					
	0.501	2	0.00	0	
	0.5%	2	0.08	0	
	0.00		0.00		
	0.0%	4	0.00	0	
	0.0%				
90					
100		2	0.00	0	
	0.0%				
110					
290					

Tabela 9: 10 Objetos Pre-Runtime Circle OnCollisionS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.5%	1	0.09	0
	0.0%	1	0.00	0
	0.0%	3	0.00	0
	0.0%	1	0.00	0
	0.0%	3	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	8	0.00	0
70	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.2%	12	0.01	0

80	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	14	0.01	0
	0.0%	12	0.01	0
	0.0%	20	0.04	0
	0.6%	6	0.00	0
	0.0%	8	0.01	0
	0.1%	12	0.00	0
	0.0%	8	0.00	0
90	0.1%	8	0.01	0
	0.0%	8	0.00	0
	0.1%	8	0.02	0
				0
	0.0%	8	0.00	0
	0.0%	8	0.00	
	0.0%	8	0.00	0
	0.2%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
100	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.2%	16	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
110	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
	0.5%	18	0.02	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
120	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.1%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	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	0.01	0
	0.3%	16	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
	0.0%	8	0.00	0
140	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.01	0
	0.3%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0

	0.0%	8	0.01	0
1.50	0.0%	8	0.00	0
150	0.0%	8	0.00	0
	0.1%	16	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
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
160	0.2%	16	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
170	0.1%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	7	0.00	0
	0.1%	8	0.00	0
180	0.0%	7	0.01	0
	0.0%	7	0.00	0

	0.0%	8	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.0%	7	0.00	0
	0.2%	10	0.01	0
	0.0%	5	0.00	0
190	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.00	0
	0.0%	3	0.00	0
	0.0%	5	0.00	0
	0.0%	5	0.02	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.1%	6	0.00	0
	0.0%	3	0.00	0
200	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.3%	3	0.02	0
	0.0%	4	0.00	0
	0.2%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
210	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0

	0.2%	6	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
220	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
230	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.5%	6	0.03	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
240	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	1	'	1	1

250	0.00%	2	0.00	0
230	0.0%		0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
260	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	6	0.02	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	2	0.00	0
270	0.0%	4	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	2	0.00	0
	0.0%	4	0.01	0
280	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.070		0.00	U

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
290	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

Tabela 10: 10 Objetos Pre-Runtime Circle OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	3.0%	1	0.45	32

40	
40	
40	
40	
0.07	
0.0% 1 0.00 0	
50	
0.0% 1 0.00 0	
60 000 1 000 0	
60 0.0% 1 0.00 0	
0.0% 1 0.01 0	
70	
70	

90	0.0%	1	0.00	0
120				
	0.0%	1	0.00	0
130				
290				

Tabela 11: 10 Objetos Pre-Runtime Circle OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

	1			1	
50					
	0.5%	1	0.09	0	
60					
	0.0%	1	0.00	0	
	0.0%				
		-	0.01		
		1	0.01	0	
	0.1%				
70					
70					
110					
		1	0.01	0	
		1	0.01	0	
	0.0%	1			
120					

			0.00	0	
	0.0%	1		0	
130					
180					
					_
					_
					_
					_
			0.00		
100	0.00		0.00		
190	0.0%	1	0.00	0	
210					
	0.0%	1	0.01	0	
220					
		1			

290		

Tabela 12: 10 Objetos Pre-Runtime Circle OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.6%	1	0.10	0
	0.0%	1	0.00	0
40	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0

	0.0%	1	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
50	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.01	0
	0.0%	2	0.00	0
	0.2%	4	0.01	0
	0.1%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	3	0.02	0
	0.0%	2	0.00	0
60	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	6	0.01	0
	0.1%	3	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	3	0.00	0
	0.0%	3	0.00	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	0
	0.1%	4	0.01	0
	0.1%	2	0.01	0
	0.1%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.1%	2	0.01	0
	0.0%	2	0.00	0

			0
0.0%	2	0.00	0
0.0%	2	0.00	0
0.1%	2	0.01	0
0.1%	2	0.01	0
0.0%	2	0.00	0
0.0%	2	0.01	0
0.0%	2	0.00	0
0.4%	4	0.03	0
0.0%	2	0.00	0
0.2%	4	0.01	0
0.0%	2	0.00	0
0.1%	2	0.02	0
0.0%	2	0.00	0
0.0%	3	0.01	0
0.0%	3	0.00	0
0.0%	3	0.01	0
0.0%	3	0.01	0
0.2%	6	0.01	0
0.0%	3	0.01	0
0.0%	3	0.01	0
0.1%	3	0.01	0
0.0%	3	0.01	0
0.1%	3	0.01	0
0.0%	3	0.00	0
0.0%	3	0.01	0
0.0%	3	0.01	0
0.3%	6	0.01	0
0.1%	3	0.01	0
0.1%	3	0.01	0
0.1%	3	0.01	0
0.1%	3	0.01	0
0.0%	3	0.00	0
	0.1% 0.1% 0.0% 0.0% 0.0% 0.4% 0.0% 0.2% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.1	0.0% 2 0.0% 2 0.1% 2 0.0% 2 0.0% 2 0.0% 2 0.4% 4 0.0% 2 0.1% 2 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.0% 3 0.1% 3 0.1% 3 0.1% 3 0.1% 3 0.1% 3 0.1% 3 0.1% 3 0.1% 3 <td< td=""><td>0.0% 2 0.00 0.0% 2 0.00 0.1% 2 0.01 0.1% 2 0.00 0.0% 2 0.00 0.0% 2 0.00 0.4% 4 0.03 0.0% 2 0.00 0.2% 4 0.01 0.0% 2 0.00 0.1% 2 0.02 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01</td></td<>	0.0% 2 0.00 0.0% 2 0.00 0.1% 2 0.01 0.1% 2 0.00 0.0% 2 0.00 0.0% 2 0.00 0.4% 4 0.03 0.0% 2 0.00 0.2% 4 0.01 0.0% 2 0.00 0.1% 2 0.02 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01 0.0% 3 0.01

	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.3%	6	0.01	0
	0.0%	2	0.01	0
	0.1%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
120	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.1%	2	0.01	0
	0.1%	2	0.01	0
	0.0%	2	0.01	0
130	0.0%	2	0.01	0
	0.5%	4	0.02	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
	0.0%	2	0.01	0
140	0.0%	6	0.01	0
	0.1%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	2	0.04	0
		1		1

0.0% 2 0.00 0 0.1% 4 0.00 0 0.0% 2 0.00 0 150 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0					
0.0% 2 0.00 0 0.0% 2 0.01 0 150 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.01 0 0 0.0% 2 0.01 0 0 0 0 0 0 0 0 0		0.1%	4	0.00	0
150 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.01 0 0.0		0.0%	2	0.01	0
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0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 4 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 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1		0.0%	2	0.01	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 4 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 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1		0.0%	2	0.01	0
0.0% 2 0.00 0 0.1% 4 0.00 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.1% 4 0.00 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.01 0 160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 <td></td> <td>0.0%</td> <td>2</td> <td>0.00</td> <td>0</td>		0.0%	2	0.00	0
0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.01 0 160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.01 0 160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	4	0.00	0
0.0% 2 0.01 0 160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.01	0
160 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.01	0
0.1% 2 0.01 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0	160	0.0%	2	0.00	0
0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	2	0.01	0
0.0% 2 0.00 0 0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	2	0.01	0
0.1% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	2	0.01	0
0.3% 4 0.02 0 170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.00 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
170 0.1% 2 0.01 0 0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.00 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.00	0
0.1% 2 0.01 0 0.0% 2 0.01 0 0.1% 2 0.00 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.3%	4	0.02	0
0.0% 2 0.01 0 0.1% 2 0.00 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0	170	0.1%	2	0.01	0
0.1% 2 0.00 0 0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	2	0.01	0
0.0% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.01	0
0.1% 2 0.01 0 0.1% 2 0.01 0 0.1% 2 0.01 0		0.1%	2	0.00	0
0.1% 2 0.01 0 0.1% 2 0.01 0		0.0%	2	0.01	0
0.1% 2 0.01 0		0.1%	2	0.01	0
		0.1%	2	0.01	0
0.1% 2 0.01 0		0.1%	2	0.01	0
		0.1%	2	0.01	0
0.0% 2 0.01 0		0.0%	2	0.01	0

180	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.2%	4	0.01	0
	0.0%	2	0.01	0
	0.1%	2	0.01	0
	0.1%	2	0.01	0
	0.1%	2	0.01	0
	0.0%	2	0.00	0
	0.1%	2	0.01	0
	0.1%	2	0.01	0
190	0.0%	1	0.01	0
	0.2%	2	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	0.01	0
	0.5%	1	0.04	0
	0.0%	1	0.01	0
	0.0%	2	0.00	0
200	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.5%	2	0.02	0
	0.1%	1	0.01	0
210	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.01	0
	0.0%	1	0.01	0

	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.0%	1	0.00	0
	0.1%	1	0.00	0
220				
290				

Tabela13:10ObjetosPre-RuntimeCirclePhysics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.6%	1	0.38	0
	0.9%	6	0.31	0
	0.6%	1	0.10	0
	0.5%	3	0.10	0
	0.5%	1	0.09	0
	0.5%	1	0.09	0
	0.2%	1	0.09	0
	3.5%	1	0.09	0
10	0.5%	1	0.09	0
	0.5%	1	0.08	0
	0.6%	1	0.19	0
	0.5%	1	0.09	0
	0.6%	2	0.09	0
	0.5%	1	0.10	0
	0.6%	1	0.10	0
	0.2%	1	0.10	0

0.2% 1 0.09 0 0.2% 1 0.10 0 20 5.9% 1 0.09 0 0.6% 1 0.31 0 0.6% 1 0.10 0 0.6% 2 0.10 0 0.5% 2 0.10 0)))
20 5.9% 1 0.09 0 0.6% 1 0.31 0 0.6% 1 0.10 0 0.6% 2 0.10 0)))
0.6% 1 0.31 0 0.6% 1 0.10 0 0.6% 2 0.10 0))
0.6% 1 0.10 0 0.6% 2 0.10 0)
0.6% 2 0.10 0)
0.5% 2 0.10 0)
0.6% 2 0.09 0)
0.5% 1 0.09 0)
0.6% 1 0.10 0)
0.5% 1 0.10 0)
0.5% 1 0.09 0)
30 0.1% 1 0.21 0)
1.0% 1 0.10 0)
1.6% 1 0.21 0)
0.5% 1 0.21 0)
0.5% 1 0.11 0)
0.5% 2 0.09 0)
0.6% 1 0.09 0)
0.5% 1 0.10 7	72
0.5% 1 0.10 0)
0.2% 1 0.63 0)
40 2.5% 1 0.09 0)
4.2% 1 0.09 0)
1.3% 1 0.22 0)
0.8% 2 0.63 0)
0.7% 1 0.21 0)
0.6% 1 0.14 0)
0.5% 1 0.12 0)
0.2% 1 0.11 0)
0.8% 1 0.11 0)
4.6% 1 0.10 0)
50 0.7% 1 0.24 0)
0.8% 2 0.12 0)

0.6% 1 0.13 0.8% 1 0.11 0.7% 1 0.12 1.1% 1 0.12 0.7% 1 0.11	0 10700 0 10700 0
0.7% 1 0.12 1.1% 1 0.12 0.7% 1 0.11	0 10700
1.1% 1 0.12 0.7% 1 0.11	10700
0.7% 1 0.11	
	0
1 107 1 0 10	
1.1% 1 0.12	0
0.8% 1 0.12	0
0.3% 1 0.28	0
60 5.1% 1 0.19	0
0.8% 1 0.13	0
0.3% 1 0.19	0
0.9% 2 0.12	10700
1.1% 1 0.15	3600
1.4% 1 0.19	3600
0.7% 1 0.23	10700
0.3% 1 0.12	10700
9.7% 1 0.59	10700
1.5% 1 0.19	10700
70 1.1% 1 0.24	14200
1.1% 2 0.17	14200
1.1% 1 0.19	21300
0.6% 1 0.28	49800
1.1% 1 0.19	42700
1.2% 1 0.19	21300
0.4% 1 0.19	21300
7.2% 1 0.19	35500
1.1% 1 0.39	49800
0.6% 1 0.31	42700
80 1.3% 2 0.20	42700
1.2% 1 0.20	49800
1.2% 1 0.21	49800
1.4% 1 0.21	56900
1.3% 1 0.23	49800
1.3% 1 0.31	49800

	0.6%	1	0.22	49800
	4.6%	1	0.23	49800
	1.4%	1	0.25	78200
	1.3%	1	0.28	35500
90	1.6%	1	0.22	35500
	1.2%	1	0.22	49800
	0.9%	1	0.31	28400
	1.3%	1	0.22	35500
	13.9%	1	0.34	28400
	1.2%	1	0.89	28400
	0.5%	2	0.22	28400
	8.6%	2	0.21	
	3.2%	1	0.53	28400
	1.2%	2	0.23	28400
100	1.7%	2	0.52	28400
		1	0.21	64000
	1.5%	1	0.32	35500
	1.2%	1		35500
	0.5%		0.25	35500
	10.3%	1	0.20	35500
	1.3%	1	0.20	35500
	1.2%	1	0.54	35500
	1.3%	2	0.21	21300
	1.2%	1	0.21	35500
110	1.3%	1	0.21	21300
	1.2%	1	0.21	28400
	1.2%	1	0.20	56900
	1.2%	1	0.21	21300
	0.5%	1	0.61	28400
	8.2%	1	0.22	28400
	1.2%	1	0.61	21300
	1.2%	1	0.46	21300
	1.2%	2	0.20	21300
	1.3%	1	0.19	64000

120	1.1%	1	0.22	28400
	0.7%	1	0.20	28400
	0.4%	1	0.20	28400
	11.6%	1	0.20	28400
	1.2%	1	0.23	28400
	1.2%	1	0.61	28400
	1.2%	3	0.21	28400
	1.2%	1	0.20	28400
	1.3%	1	0.22	28400
	1.1%	1	0.19	28400
130	1.3%	1	0.21	28400
	1.2%	1	0.20	28400
	5.4%	1	0.20	28400
	1.1%	1	0.20	28400
	1.5%	1	0.20	28400
	1.2%	1	0.35	28400
	1.2%	1	0.23	28400
	1.4%	1	0.20	56900
	1.3%	1	0.21	28400
	2.2%	1	0.24	28400
140	0.5%	1	0.20	28400
	9.4%	1	0.20	28400
	1.2%	1	0.22	28400
	2.2%	2	0.20	28400
	1.3%	1	0.20	28400
	1.2%	1	0.20	28400
	1.3%	1	0.21	28400
	1.2%	1	0.21	85300
	1.2%	1	0.20	28400
	1.2%	1	0.20	28400
150	0.3%	1	0.20	28400
	2.2%	1	0.20	28400
	5.0%	1	0.20	28400
	1.1%	1	0.49	28400

	1.2%	3	0.25	56900
	0.5%	1	0.19	28400
	1.2%	1	0.20	28400
	1.3%	1	0.20	28400
	0.4%	1	0.28	28400
	5.0%	1	0.18	28400
160	1.3%	1	0.30	28400
	0.5%	1	0.24	28400
	1.1%	2	0.21	28400
	1.2%	1	0.19	28400
	1.1%	1	0.20	56900
	1.2%	1	0.20	28400
	1.2%	1	0.20	28400
	0.5%	1	0.24	28400
	9.6%	1	0.20	28400
	1.2%	1	0.21	28400
170	1.4%	1	0.51	28400
	1.3%	2	0.20	28400
	1.5%	1	0.22	21300
	1.1%	1	0.24	21300
	1.5%	1	0.20	21300
	1.2%	1	0.20	21300
	0.4%	1	0.20	21300
	1.4%	1	0.20	28400
	5.5%	1	0.19	21300
	1.2%	1	0.33	28400
180	0.6%	1	0.20	28400
	1.6%	1	0.20	28400
	5.5%	1	0.33	28400
	1.4%	1	0.20	28400
	1.1%	1	0.36	17800
	1.1%	2	0.21	28400
	0.5%	1	0.20	28400
	5.5%	1	0.20	28400

	1.2%	1	0.35	28400
	1.3%	1	0.20	28400
190	1.4%	1	0.21	28400
	1.2%	1	0.19	46200
	1.2%	1	0.24	21300
	1.2%	1	0.21	17800
	1.6%	1	0.20	17800
	1.1%	1	0.21	17800
	0.5%	1	0.27	17800
	9.6%	1	0.19	17800
	1.2%	1	0.52	17800
	1.1%	2	0.20	14200
200	1.1%	1	0.19	17800
	1.2%	1	0.19	10700
	1.1%	1	0.20	21300
	1.1%	1	0.19	10700
	1.1%	1	0.19	10700
	0.4%	1	0.19	10700
	1.1%	1	0.17	10700
	1.1%	1	0.18	10700
	1.1%	1	0.64	14200
	0.5%	2	0.19	14200
210	1.1%	1	0.18	28400
	1.1%	1	0.19	14200
	9.9%	1	0.24	14200
	0.4%	1	0.73	14200
	4.5%	1	0.19	7100
	0.9%	1	0.34	14200
	1.1%	1	0.17	14200
	1.1%	2	0.18	14200
	1.1%	1	0.17	14200
	1.1%	1	0.18	14200
220	0.9%	1	0.19	14200
	1.3%	1	0.18	14200

	1.2%	1	0.17	14200
	0.4%	1	0.20	14200
	17.5%	1	0.21	14200
	1.2%	1	0.18	7100
	1.1%	1	1.01	14200
	1.1%	2	0.20	14200
	1.2%	1	0.19	7100
	0.9%	1	0.19	7100
230	1.0%	1	0.20	7100
	1.1%	1	0.18	7100
	0.9%	1	0.18	7100
	0.4%	1	0.17	7100
	6.1%	1	0.33	7100
	1.0%	1	0.18	7100
	1.1%	1	0.33	7100
	1.1%	1	0.18	7100
	1.0%	1	0.18	21300
	0.6%	1	0.18	7100
240	0.6%	1	0.18	7100
	11.3%	1	0.18	7100
	1.2%	1	0.18	7100
	1.2%	1	0.64	7100
	1.0%	3	0.19	7100
	1.0%	1	0.20	7100
	1.1%	1	0.18	7100
	1.0%	1	0.17	7100
	1.1%	1	0.19	14200
	1.1%	1	0.19	7100
250	1.0%	1	0.19	7100
	0.4%	1	0.17	7100
	6.2%	1	0.33	7100
	1.0%	1	0.33	7100
	1.0%	2	0.17	7100
	1.0%	1	0.17	7100

	1.0%	1	0.17	7100
	0.9%	1	0.17	7100
	1.1%	1	0.17	7100
	0.9%	1	0.17	7100
260	0.4%	1	0.16	7100
	2.9%	1	0.17	7100
	1.1%	1	0.19	7100
	1.0%	1	0.18	7100
	1.0%	1	0.17	7100
	1.1%	1	0.19	21300
	1.3%	1	0.21	7100
	1.1%	1	0.18	7100
	0.6%	1	0.18	7100
	0.3%	1	0.15	7100
270	6.3%	1	0.65	7100
	1.4%	3	0.20	7100
	1.2%	1	0.18	7100
	1.1%	1	0.18	14200
	0.9%	1	0.16	7100
	1.2%	1	0.20	7100
	1.0%	1	0.17	7100
	0.4%	1	0.16	7100
	10.6%	1	0.55	7100
	1.0%	2	0.17	7100
280	1.1%	1	0.18	7100
	1.1%	1	0.18	7100
	1.1%	1	0.18	14200
	1.1%	1	0.19	7100
	1.1%	1	0.17	7100
	1.0%	1	0.17	7100
	0.4%	1	0.18	7100
	8.9%	1	0.45	7100
	1.0%	2	0.17	7100
	1.1%	1	0.17	7100

290	1.0%	1	0.18	7100
	1.1%	1	0.18	14200
	1.0%	1	0.17	7100
	1.0%	1	0.18	7100

A.1.3 CINQUENTA OBJETOS

Tabela 14: 50 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.5%	2	0.09	0
	0.0%	2	0.00	0
		_		
80	0.0%	2	0.00	0
	0.0%	2	0.00	0
	,	_	3.00	

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

	0.0%	10	0.00	0
120	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%	14	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
130	0.0%	12	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.01	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
140	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
150	0.0%	14	0.01	0

0.1%	6	0.00	0
0.0%	2	0.00	0
0.0%	10	0.00	0
0.0%	6	0.00	0
0.0%	6	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	4	0.00	0
0.0%	6	0.00	0
0.0%	2	0.00	0
0.0%	10	0.00	0
0.0%	6	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	8	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	12	0.00	0
0.0%	2	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	8	0.00	0
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 2 0.0% 6 0.0% 6 0.0% 4 0.0% 2 0.0% 6 0.0% 6 0.0% 10 0.0% 6 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% 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% 4	0.0% 2 0.00 0.0% 10 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 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%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
190	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
200	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.070		0.00	
210	0.0%	2	0.00	0
210	0.070		0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
				0
	0.0%	6	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0

	0.0%	2	0.00	0
220	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
230				
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
240	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
250				
	0.0%	4	0.00	0

	0.0%	2	0.00	0
	0.070		0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.076		0.00	
	0.0%	2	0.00	0
260				
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
270				
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
280				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0

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

Tabela 15: 50 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
70				
	0.5%	2	0.09	0

0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.00		0.00	0	
0.0%	2	0.00	U	
0.00%	2	0.00	0	
0.070		0.00		
0.0%	4	0.00	0	
3.0 /0	F	0.00		
0.0%	8	0.01	0	
0.0%	2	0.00	0	
0.0%	2	0.01	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% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 4 0.0% 4 0.0% 8 0.0% 2	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% 2 0.00 0.0% 2 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 8 0.01 0.0% 2 0.00	0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 8 0.01 0 0.0% 2 0.00 0

0.0%	8	0.00	0
	8		i .
0.107		0.01	0
0.1%	10	0.01	0
0.0%	8	0.00	0
0.0%	6	0.00	0
0.0%	10	0.00	0
0.0%	4	0.00	0
0.0%	10	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%	14	0.01	0
0.0%	8	0.00	0
0.0%	10	0.00	0
0.0%	4	0.00	0
0.0%	6	0.00	0
0.0%	10	0.00	0
0.0%	12	0.01	0
0.0%	10	0.00	0
0.0%	10	0.00	0
0.0%	12	0.01	0
0.0%	12	0.00	0
0.0%	6	0.00	0
0.0%	6	0.00	0
0.0%	6	0.00	0
0.0%	6	0.00	0
0.0%	4	0.00	0
0.0%	8	0.00	0
0.0%	2	0.00	0
0.0%	8	0.01	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% 10 0.0% 4 0.0% 10 0.0% 2 0.0% 6 0.0% 4 0.0% 14 0.0% 10 0.0% 4 0.0% 6 0.0% 10 0.0% 10 0.0% 10 0.0% 12 0.0% 12 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 8 0.0% 8 0.0% 2 0.0% 8	0.0% 10 0.00 0.0% 4 0.00 0.0% 10 0.00 0.0% 2 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 14 0.01 0.0% 8 0.00 0.0% 10 0.00 0.0% 4 0.00 0.0% 6 0.00 0.0% 10 0.00 0.0% 10 0.00 0.0% 12 0.01 0.0% 12 0.01 0.0% 12 0.01 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6

	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
150	0.0%	14	0.01	0
	0.1%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
160	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
170				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.00	0

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

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

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

280					
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
290	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	

Tabela 16: 50 Objetos Pre-Runtime Circle OnCollisionE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				

70					
70					
	0.5%	2	0.09	0	
	0.0%	2	0.00	0	
	0.0%				
	0.070				
0.0			0.00		
80		2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2			
			0.00	0	
	0.0%	2		0	
00					
90					
			0.00		
	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	
	0.070		0.00		
100	0.007		0.00	0	
100	0.0%	2	0.00	0	
	0.0%	6	0.00	0	
	0.0%	2	0.00	0	

	0.0%	4	0.00	0
	0.0%	8	0.01	0
	0.0%	2	0.00	0
110	0.0%	2	0.01	0
	0.0%	6	0.00	0
	0.0%	8	0.01	0
	0.0%	8	0.01	0
	0.1%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
120				
	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%	14	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
130	0.0%	4	0.00	0
	0.0%	6	0.01	0
	0.0%	10	0.00	0
	0.0%	12	0.01	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.01	0

0.0%	12	0.00	0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
0.0%	6	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	4	0.00	0
0.0%	14	0.01	0
0.1%	6	0.00	0
0.0%	2	0.00	0
0.0%	10	0.00	0
0.0%	6	0.00	0
0.0%	6	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	2	0.00	0
0.0%	4	0.00	0
0.0%	6	0.00	0
0.0%	2	0.00	0
0.0%	10	0.00	0
0.0%	6	0.00	0
0.0%	4		0
0.0%	2	0.00	0
	0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0%	0.0% 6 0.0% 6 0.0% 6 0.0% 4 0.0% 8 0.0% 2 0.0% 8 0.0% 8 0.0% 6 0.0% 4 0.0% 4 0.0% 4 0.0% 14 0.1% 6 0.0% 2 0.0% 6 0.0% 4 0.0% 2 0.0% 4 0.0% 2 0.0% 4 0.0% 4 0.0% 2 0.0% 4 0.0% 4 0.0% 4 0.0% 4 0.0% 6 0.0% 4 0.0% 6 0.0% 4 0.0% 6 0.0% 6 0.0% 6 0.0% 6 0.0% 6 <t< td=""><td>0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 8 0.00 0.0% 8 0.00 0.0% 2 0.01 0.0% 8 0.00 0.0% 8 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 10 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 4 0.00 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% 4 0.00 0.0% 4 0.00</td></t<>	0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 8 0.00 0.0% 8 0.00 0.0% 2 0.01 0.0% 8 0.00 0.0% 8 0.00 0.0% 6 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 10 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 4 0.00 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% 4 0.00 0.0% 4 0.00

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

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

240	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
250	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
260	0.0%	4	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.00	0
270				
	0.0%	2	0.00	0

	1	1	I	1
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
280				
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2		
290				
			0.00	0
	0.0%	2		0
			0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2		0
	-			1

Tabela 17: 50 Objetos Pre-Runtime Circle OnCollisionS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.2%	12	0.02	0
	0.0%	6	0.01	0

0.2% 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 10 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0					
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 10 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.2%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 10 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 10 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 10 0.0% 2 0.00 0 0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
10 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2		0.0%	2	0.00	0
0.0% 2 0.01 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0	10	0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 <td></td> <td>0.0%</td> <td>2</td> <td>0.01</td> <td>0</td>		0.0%	2	0.01	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.1% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.1%	2	0.00	0
0.0% 2 0.00 0 20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
20 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0	20	0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0 0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
		0.0%	2	0.00	0
30 0.0% 2 0.00 0	30	0.0%	2	0.00	0
0.0% 2 0.01 0		0.0%	2	0.01	0
0.0% 2 0.00 0		0.0%	2	0.00	0
0.1% 2 0.00 0		0.1%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0

0.0% 2 0.00 0.0% 2 0.00 40 0.0% 2 0.00 0.0% 2 0.00 0.0% 2 0.00 0.0% 2 0.00	0 0 0
40 0.0% 2 0.00 0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	
0.070	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
50 0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
60 0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
0.0% 2 0.00	0
70 0.0% 2 0.00	0
0.0% 4 0.00	0

			1	
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.01	0
	0.0%	10	0.00	0
80	0.0%	12	0.01	0
	0.0%	10	0.01	0
	0.0%	12	0.00	0
	0.0%	14	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	14	0.01	0
	0.0%	16	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.01	0
90	0.0%	26	0.02	0
	0.1%	30	0.01	0
	0.1%	34	0.02	0
	0.2%	38	0.09	0
	0.1%	34	0.09	0
	0.2%	38	0.03	0
	0.0%	66	0.02	0
	0.4%	34	0.03	0
	1.3%	34	0.03	0
	0.1%			
100	0.2%	36	0.03	0
		38	0.03	0
	0.1%	40	0.02	0
	0.2%	42	0.03	0
	0.1%	44	0.03	0
	0.2%	42	0.03	0
			1	1

	0.1%	44	0.03	0
	0.2%	50	0.03	0
	0.2%	48	0.02	0
	0.1%	54	0.03	0
110	0.2%	70	0.03	0
	0.1%	58	0.03	0
	0.1%	66	0.03	0
	0.1%	60	0.02	0
	0.2%	70	0.03	0
	0.2%	68	0.04	0
	0.2%	72	0.03	0
	0.2%	70	0.03	0
	0.2%	64	0.04	0
	0.2%	62	0.03	0
120	0.2%	62	0.03	0
	0.2%	58	0.03	0
	0.2%	58	0.03	0
	0.2%	60	0.04	0
	0.2%	74	0.04	0
	0.2%	64	0.06	0
	0.2%	76	0.05	0
	0.1%	170	0.09	0
	0.2%	90	0.06	0
	1.0%	90	0.05	0
130	0.2%	78	0.04	0
	0.4%	74	0.03	0
	0.3%	76	0.03	0
	0.2%	74	0.05	0
	0.2%	86	0.05	0
	0.2%	92	0.05	0
	0.2%	94	0.06	0
	0.3%	86	0.05	0
	0.3%	78	0.04	0
	0.3%	76	0.04	0
			1	1

		1	
0.3%	74	0.05	0
0.2%	70	0.02	0
0.2%	66	0.05	0
0.3%	64	0.03	0
0.1%	64	0.04	0
0.1%	70	0.03	0
0.2%	70	0.04	0
0.2%	72	0.05	0
0.3%	74	0.06	0
0.3%	74	0.04	0
0.2%	74	0.05	0
0.3%	72	0.05	0
0.2%	70	0.04	0
0.3%			
0.2%	142	0.07	0
			0
0.4%	72	0.05	
	124	0.04	0
0.1%	56	0.09	0
0.5%	56	0.05	0
1.3%	60	0.03	0
0.2%	58	0.05	0
0.2%	56	0.09	0
0.2%	56	0.02	0
0.6%	62	0.03	0
0.2%	58	0.05	0
0.3%	58	0.03	0
0.1%	60	0.04	0
0.2%	54	0.03	0
0.2%	52	0.03	0
0.1%	54	0.02	0
0.2%	56	0.03	0
0.1%			0
0.2%	52	0.03	0
	0.2% 0.3% 0.1% 0.1% 0.2% 0.2% 0.3% 0.2% 0.3% 0.2% 0.3% 0.2% 0.4% 0.4% 0.1% 0.5% 1.3% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.1% 0.2% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1%	0.2% 70 0.2% 66 0.3% 64 0.1% 70 0.2% 70 0.2% 72 0.3% 74 0.3% 72 0.2% 70 0.3% 72 0.2% 70 0.3% 72 0.2% 142 0.4% 72 124 0.1% 0.5% 56 0.5% 56 0.2% 58 0.2% 56 0.2% 58 0.3% 58 0.1% 60 0.2% 54 0.2% 54 0.2% 54 0.2% 56 0.1% 54 0.2% 56 0.1% 54 0.2% 56 0.1% 54 0.2% 56 0.1% 56	0.2% 70 0.02 0.2% 66 0.05 0.3% 64 0.03 0.1% 64 0.04 0.1% 70 0.03 0.2% 70 0.04 0.2% 72 0.05 0.3% 74 0.06 0.3% 72 0.05 0.2% 70 0.04 0.3% 72 0.05 0.2% 70 0.04 0.3% 72 0.05 0.2% 142 0.07 0.4% 72 0.05 124 0.04 0.04 0.1% 56 0.09 0.5% 56 0.05 1.3% 60 0.03 0.2% 56 0.09 0.2% 56 0.09 0.2% 56 0.02 0.6% 62 0.03 0.2% 58 0.05 0.3% 58

		56	0.04	0
	0.2%	110	0.08	0
	0.2%	110	0.00	0
	0.5%	52	0.02	
	0.5 /6	54	0.02	0
	0.1%	52	0.02	0
180	0.1%	50	0.03	0
100	0.1%	48	0.02	0
				0
	0.1%	50	0.04	0
	0.1%	38	0.02	0
	0.2%	40	0.03	0
	0.1%	40	0.02	0
	0.2%	42	0.03	0
	0.1%	44	0.09	0
	0.1%	98	0.05	0
	0.3%	48	0.02	0
190	0.5%	48	0.03	0
	0.2%	48	0.03	0
	0.2%	52	0.02	0
	0.2%	54	0.03	0
	0.1%	58	0.03	0
	0.1%	56	0.03	0
	0.1%	54	0.03	0
	0.2%	54	0.03	0
	0.2%	52	0.03	0
	0.2%	58	0.03	0
200	0.2%	62	0.04	0
	0.2%	66	0.03	0
	0.2%	68	0.04	0
	0.2%	66	0.03	0
	0.2%	66	0.04	0
	0.2%	68	0.07	0
	0.2%	68	0.04	0
	0.5%	68	0.03	0

0.2% 64 0.03 0 210 0.3% 66 0.04 0 0.2% 66 0.03 0 0.2% 64 0.06 0 0.2% 64 0.03 0 0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 0.2% 60 0.04 0 0.2% 60 0.04 0 0.2% 56 0.03 0 0.2% 56 0.03 0 0.2% 56 0.03 0 0.2% 46 0.04 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.2% 42 0.02					
210 0.3% 66 0.04 0 0.2% 66 0.03 0 0.2% 64 0.06 0 0.2% 64 0.03 0 0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 0.2% 60 0.04 0 0.2% 60 0.04 0 0.2% 56 0.03 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.04		0.2%	66	0.05	0
0.2% 66 0.04 0 0.2% 64 0.06 0 0.2% 64 0.03 0 0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 66 0.04 0 0.2% 60 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.02 0 0.1% 42 0.04 0		0.2%	64	0.03	0
0.2% 66 0.04 0 0.2% 64 0.06 0 0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.1% 68 0.04 0 0.2% 68 0.04 0 0.2% 60 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 42 0.02 0 0.1% 42 0.02 0	210	0.3%	66	0.04	0
0.2% 64 0.03 0 0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 0.2% 60 0.04 0 0.2% 60 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0		0.2%	66	0.03	0
0.2% 64 0.03 0 0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.2% 42 0.02 0 0.1% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 42 0.04 0		0.2%	66	0.04	0
0.3% 66 0.04 0 0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.1% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03		0.2%	64	0.06	0
0.2% 66 0.03 0 0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.1% 44 0.04 0 0.1% 44 0.03 0 0.1% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 52 0.04		0.2%	64	0.03	0
0.3% 68 0.04 0 0.1% 68 0.04 0 0.2% 68 0.04 0 220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 0.1% 42 0.02 0 0.1% 42 0.02 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 50 0.04 0 0.2% 50 0.04 0 0.2% 50		0.3%	66	0.04	0
0.1% 68 0.04 0 0.2% 68 0.04 0 220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04		0.2%	66	0.03	0
0.2% 68 0.04 0 220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.1% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2		0.3%	68	0.04	0
220 0.5% 66 0.04 0 0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.1% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2		0.1%	68	0.04	0
0.2% 60 0.04 0 0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	68	0.04	0
0.3% 58 0.04 0 0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0	220	0.5%	66	0.04	0
0.2% 56 0.03 0 0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	60	0.04	0
0.2% 54 0.05 0 0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.3%	58	0.04	0
0.1% 52 0.03 0 0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	56	0.03	0
0.2% 46 0.04 0 0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	54	0.05	0
0.2% 44 0.03 0 0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.1%	52	0.03	0
0.3% 44 0.04 0 0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	46	0.04	0
0.1% 44 0.03 0 230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	44	0.03	0
230 0.2% 42 0.02 0 0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.3%	44	0.04	0
0.2% 42 0.02 0 0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.1%	44	0.03	0
0.1% 42 0.04 0 0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0	230	0.2%	42	0.02	0
0.1% 44 0.03 0 0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	42	0.02	0
0.2% 44 0.03 0 0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.1%	42	0.04	0
0.1% 50 0.03 0 0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.1%	44	0.03	0
0.2% 52 0.04 0 0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	44	0.03	0
0.2% 54 0.03 0 0.2% 58 0.03 0 0.2% 56 0.03 0		0.1%	50	0.03	0
0.2% 58 0.03 0 0.2% 56 0.03 0		0.2%	52	0.04	0
0.2% 56 0.03 0		0.2%	54	0.03	0
		0.2%	58	0.03	0
		0.2%	56	0.03	0
240 0.2% 54 0.03 0	240	0.2%	54	0.03	0
0.2% 54 0.04 0		0.2%	54	0.04	0

			1	
	0.2%	54	0.04	0
	0.2%	54	0.03	0
	0.3%	54	0.04	0
	0.1%	52	0.03	0
	0.2%	52	0.02	0
	0.2%	52	0.09	0
	0.1%	50	0.03	0
	0.3%	52	0.03	0
250	0.5%	52	0.03	0
	0.2%	52	0.03	0
	0.1%	52	0.04	0
	0.2%	50	0.03	0
	0.2%	50	0.05	0
	0.1%	48	0.03	0
	0.3%	48	0.03	0
	0.1%	46	0.05	0
	0.2%	46	0.04	0
	0.2%	50	0.04	0
260	0.2%	50	0.05	0
	0.2%	50	0.04	0
	0.3%	48	0.03	0
	0.2%	48	0.03	0
	0.2%	48	0.03	0
	0.1%	50	0.03	0
	0.2%	50	0.04	0
	0.2%	50	0.04	0
	0.3%	52	0.03	0
	0.2%	50	0.03	0
270	0.2%	50	0.03	0
	0.2%	52	0.03	0
	0.2%	50	0.03	0
	0.1%	44	0.03	0
	0.2%	44	0.04	0
	0.2%	40	0.03	0
1	1		1	1

	0.2%	42	0.02	0
	0.2%	42	0.10	0
	0.0%	44	0.02	0
	0.5%	44	0.03	0
280	0.4%	44	0.04	0
	0.2%	46	0.03	0
	0.2%	42	0.03	0
	0.2%	40	0.02	0
	0.2%	40	0.03	0
	0.1%	42	0.03	0
	0.2%	42	0.05	0
	0.2%	40	0.03	0
	0.3%	46	0.03	0
	0.1%	46	0.03	0
290	0.2%	44	0.02	0
	0.1%	44	0.03	0
	0.1%	46	0.05	0
	0.2%	46	0.02	0
	0.3%	48	0.02	0
	0.1%	48	0.04	0
	0.1%	48	0.03	0
	0.2%	50	0.03	0
	0.1%	48	0.02	0

Tabela 18: 50 Objetos Pre-Runtime Circle OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10				
10				
30				
		_		
	0.8%	2	0.12	0
40				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
			0.00	U
	0.0%			
50				
		4	0.00	0
		"	0.00	J

60		0.0%	4		
0.0% 4 0 70 0.00 0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0	0				
0.0% 4 0 70 0.00 0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0					
0.0% 4 0 70 0.00 0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0					
0.0% 4 0 70 0.00 0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0					
0.0% 4 0 70 0.00 0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0					
70				0.00	0
0.00 0.0% 4 0.00 0.0% 2 0.0% 2 0.0% 2 0.00 0 <t< td=""><td></td><td>0.0%</td><td>4</td><td></td><td>0</td></t<>		0.0%	4		0
0.00 0.0% 4 0.00 0.0% 2 0.0% 2 0.0% 2 0.00 0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
0.00 0.0% 4 0.00 0.0% 2 0.0% 2 0.0% 2 0.00 0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
0.00 0.0% 4 0.00 0.0% 2 0.0% 2 0.0% 2 0.00 0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
0.0% 4 0.00 0 0.0% 2 0.00 0 80 0.0% 2 0.00 0	0				
0.0% 2 0.00 0 80 0.0% 2 0.00 0				0.00	
80 0.0% 2 0.00 0		0.0%	4	0.00	0
80 0.0% 2 0.00 0					
0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0					
	0				
0.0% 2 0.00 0		0.0%	2	0.00	0
0.0% 2 0.00 0					
		0.0%	2	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0
90	0				
0.0% 2 0.00 0		0.0%	2	0.00	0

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

130				
	0.0%	2	0.00	0
140				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.070	'	0.00	
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			
150				
		4	0.00	0
	0.0%	ı.	0.00	
	0.070			
160				
	1			

1=0					
170					
		2	0.00	0	
	0.0%	2			
180			0.00	0	
	0.0%	2		0	
	0.076		0.00	0	
			0.00		
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
190					
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
200					
200					

	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%		0.00	U	
210					
220					
220					
	0.007	2	0.00	0	
	0.0%	2	0.00	0	
220					
230					
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.00		0.00		
	0.0%	2	0.00	0	
240					

	0.0%	2	0.00	0
250	0.0%			
260				
280				
200		2	0.00	0
	0.00	2	0.00	0
	0.0%			
		2	0.00	0
	0.0%			
200				
290				
		2	0.00	0

0.0%		

Tabela 19: 50 Objetos Pre-Runtime Circle OnTriggerE-xit2D

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

			0.00	0	
	0.0%	2		0	
80					
			0.00		
	0.0%	4	0.00	0	
		4			
		-			
90					
	0.0%		0.00	0	
	0.0%	2	0.00	0	
	0.070	2	0.00	0	
				0	
100					
	0.0%		0.00		
		2		0	
	0.0%		0.00		
		2		0	
	1		I.	II.	

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

		2	0.00	0
	0.0%		0.00	0
	0.070			0
	0.00		0.00	
	0.0%			
		6	0.00	0
150	0.0%			0
		2	0.00	
	0.0%			0
		2	0.00	
				0
160				
	0.0%			
		4	0.00	
	0.0%			
		2	0.00	0
				0
				0
170	0.00			
170	0.0%		0.00	
		2	0.00	
				0

180					
190					
130					
	0.007				
	0.0%				
		2	0.00		
	0.0%			0	
		2	0.00		
200	+				
200					
	0.0%				
	0.0%	2	0.00		
	0.0%	2	0.00	_	
210	0.0%	2	0.00	0	
				0	
	0.0%	2	0.00		
	0.0%			0	
	12275				

220					
220					
		2	0.00		
	0.00	2	0.00		
	0.0%	2		0	
			0.00		
	0.0%	2		0	
				0	
230					
			0.00		
	0.0%	2	0.00		
		2		0	
	0.0%		0.00		
240		2		0	
				0	
	0.007		0.00		
250	0.0%		0.00		
250		2	0.00		

	0.0%				
		2	0.00	0	
260					
270					
	0.0%				
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
•00					
280					
	0.00	2	0.00	0	
	0.0%	2	0.00	0	
	0.007	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%				
		2	0.00	0	
290	0.0%		0.00		
270	0.070				

Tabela 20: 50 Objetos Pre-Runtime Circle OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40	0.0%	2	0.01	0
	0.0%	2	0.14	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.1%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.1%	12	0.00	0
	0.0%	6	0.00	0
50	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.1%	6	0.00	0
	0.0%	12	0.00	0

0.0% 6 0.00 0 0.0% 6 0.00 0 0.0% 6 0.00 0 0.0% 10 0.00 0 60 0.0% 10 0.01 0 0.0% 10 0.01 0 0 0.0% 10 0.01 0 0 0.0% 8 0.01 0 0 0.0% 8 0.01 0 0 0.0% 8 0.01 0 0 0.0% 12 0.00 0 0 0.0% 12 0.00 0 0 0.0% 12 0.01 0 0 0.0% 12 0.01 0 0 0.0% 8 0.01 0 0 0.0% 8 0.01 0 0 0.0% 12 0.05 0 0 0.0% 12 0.00 <th></th> <th></th> <th></th> <th></th> <th></th>					
0.0% 6 0.00 0 0.0% 10 0.00 0 60 0.0% 10 0.01 0 0.0% 10 0.01 0 0 0.0% 10 0.01 0 0 0.0% 8 0.01 0 0 0.0% 8 0.01 0 0 0.0% 12 0.00 0 0 0.0% 12 0.00 0 0 0.0% 12 0.00 0 0 0.0% 12 0.01 0 0 0.0% 12 0.01 0 0 0.0% 8 0.05 0 0 0.0% 8 0.05 0 0 0.0% 8 0.01 0 0 0.1% 12 0.05 0 0 0.0% 12 0.01 0 0 0.0%		0.0%	6	0.00	0
0.0% 6 0.00 0 0.0% 10 0.00 0 60 0.0% 10 0.01 0 0.0% 10 0.00 0 0.0% 10 0.01 0 0.0% 8 0.01 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 0.01 0 0.0% 12 0.01 0 0.0% 8 0.05 0 0.0% 8 0.05 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.00 0 0.0% 12 0.00 0		0.0%	6	0.00	0
0.0% 10 0.00 0 60 0.0% 10 0.01 0 0.0% 10 0.00 0 0.0% 10 0.01 0 0.0% 8 0.01 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 0.01 0 0.0% 12 0.01 0 0.0% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0		0.0%	6	0.00	0
60 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.01 0 0.0% 8 0.01 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 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 <td></td> <td>0.0%</td> <td>6</td> <td>0.00</td> <td>0</td>		0.0%	6	0.00	0
0.0% 10 0.00 0 0.0% 10 0.01 0 0.0% 8 0.01 0 0.0% 8 0.01 0 0.0% 8 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.0% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0		0.0%	10	0.00	0
0.0% 10 0.01 0 0.0% 8 0.01 0 0.0% 8 0.02 0 0.0% 8 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 8 0.02 0 0.0% 8 0.05 0 0.0% 12 0.05 0 0.1% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0	60	0.0%	10	0.01	0
0.0% 8 0.01 0 0.0% 8 0.02 0 0.0% 8 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.0% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 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%	10	0.00	0
0.0% 8 0.02 0 0.0% 8 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 12 0.01 0		0.0%	10	0.01	0
0.0% 8 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 <td></td> <td>0.0%</td> <td>8</td> <td>0.01</td> <td>0</td>		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 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 </td <td></td> <td>0.0%</td> <td>8</td> <td>0.02</td> <td>0</td>		0.0%	8	0.02	0
0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 10 0.00 </td <td></td> <td>0.0%</td> <td>8</td> <td>0.01</td> <td>0</td>		0.0%	8	0.01	0
0.0% 12 0.00 0 0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% <td></td> <td>0.0%</td> <td>12</td> <td>0.00</td> <td>0</td>		0.0%	12	0.00	0
0.0% 12 0.01 0 70 0.1% 8 0.02 0 0.0% 8 0.05 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 10 0.00 </td <td></td> <td>0.0%</td> <td>12</td> <td>0.00</td> <td>0</td>		0.0%	12	0.00	0
70 0.1% 8 0.02 0 0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 80 0.0% 12 0.00 0 80 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 0 <td></td> <td>0.0%</td> <td>12</td> <td>0.00</td> <td>0</td>		0.0%	12	0.00	0
0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 80 0.0% 12 0.00 0 80 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 10 0.00 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.01 0		0.0%	12	0.01	0
0.0% 8 0.01 0 0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.0% 20 0.00 0 0.1% 20 0.00 0	70	0.1%	8	0.02	0
0.1% 12 0.05 0 0.0% 12 0.00 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.0% 20 0.00 0 0.1% 20 0.00 0		0.0%	8	0.05	0
0.0% 12 0.00 0 0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.00 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.0% 20 0.00 0 0.1% 20 0.00 0		0.0%	8	0.01	0
0.1% 12 0.01 0 0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.0% 20 0.00 0 0.1% 20 0.00 0		0.1%	12	0.05	0
0.1% 12 0.01 0 0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.0% 20 0.00 0 0.1% 20 0.00 0		0.0%	12	0.00	0
0.0% 12 0.00 0 0.0% 12 0.00 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.1%	12	0.01	0
0.0% 12 0.00 0 0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.1%	12	0.01	0
0.0% 12 0.05 0 80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	12	0.00	0
80 0.0% 12 0.00 0 0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	12	0.00	0
0.0% 12 0.01 0 0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	12	0.05	0
0.0% 14 0.01 0 0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0	80	0.0%	12	0.00	0
0.0% 10 0.00 0 0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	12	0.01	0
0.0% 20 0.00 0 0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	14	0.01	0
0.0% 12 0.01 0 0.1% 20 0.00 0		0.0%	10	0.00	0
0.1% 20 0.00 0		0.0%	20	0.00	0
		0.0%	12	0.01	0
0.00/ 12 0.02 0		0.1%	20	0.00	0
0.0% 12 0.02 0		0.0%	12	0.02	0
0.1% 12 0.01 0		0.1%	12	0.01	0

	0.00	10	0.00	0
	0.0%	12	0.00	0
90	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	20	0.00	0
	0.2%	14	0.05	0
	0.2%	26	0.00	0
	0.0%	12	0.00	0
		18	0.05	
	0.0%		0.01	0
	0.1%	18	0.00	0
	0.0%	18	0.00	0
100	0.0%	18	0.00	0
	0.0%	18		0
	0.0%	20	0.01	0
	0.0%	28	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.03	0
	0.0%	28	0.00	0
110	0.0%	18	0.01	0
	0.0%	18	0.00	0
	0.0%	28	0.00	0
	0.0%	20	0.00	0
	0.0%	18	0.03	0
	0.0%	20	0.00	0
	0.0%	24	0.00	0
	0.0%	24	0.03	0
	0.0%	28	0.00	0
	0.0%	26	0.01	0
120	0.0%	28	0.01	0
	0.0%	26	0.00	0
	0.1%	28	0.01	0

	0.0%	64	0.01	0
	0.0%	22		
		32	0.03	0
	0.1%	34	0.00	0
	0.1%	28	0.01	0
	0.1%	34	0.01	0
	0.0%	28	0.01	0
	0.1%	38	0.02	0
130	0.1%	36	0.03	0
	0.1%	36	0.01	0
	0.0%	36	0.01	0
	0.0%	28	0.01	0
	0.0%	36	0.01	0
	0.0%	34	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	28	0.02	0
	0.0%	28	0.01	0
140	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	34	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
		34	0.01	0
	0.1%	32	0.01	
150	0.0%	32	0.01	0
			0.01	
	0.0%	60	0.01	0
	0.0%		0.01	0
	0.3%	30	0.01	0
	0.4%	24	0.01	0
	0.0%	32	0.01	0

0.107	20		0
		0.02	0
		0.02	0
0.1%	30		0
0.0%	30	0.01	0
0.0%	30	0.01	0
0.0%	30	0.05	0
0.1%	24	0.02	0
0.1%	30	0.03	0
0.0%	30	0.01	0
0.0%	24	0.01	0
0.0%	26	0.01	0
0.0%	24	0.01	0
0.0%	26	0.01	0
	24	0.01	0
0.0%	24	0.01	
0.0%	32	0.03	0
0.2%		0.01	0
	24	0.01	0
0.0%	24	0.01	0
0.0%	48	0.01	
0.0%		0.01	0
0.0%	24		0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	32	0.03	0
0.0%	24		0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.1%	26	0.01	0
0.4%	26	0.01	0
0.1%	28	0.01	0
0.0%	58	0.01	0
0.1%	32	0.01	0
	0.0% 0.0% 0.1% 0.1% 0.0% 0.0% 0.0% 0.0%	0.0% 30 0.1% 30 0.0% 30 0.0% 30 0.1% 24 0.1% 30 0.0% 30 0.0% 24 0.0% 26 0.1%	0.0% 30 0.02 0.1% 30 0.01 0.0% 30 0.01 0.0% 30 0.05 0.1% 24 0.02 0.1% 30 0.03 0.0% 30 0.01 0.0% 24 0.01 0.0% 26 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 24

0.1% 32 0.00 0 0.0% 32 0.00 0 0.0% 32 0.01 0 0.0% 32 0.04 0 0.0% 32 0.01 0 0.1% 34 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 200 0.0% 32 0.01 0 0.0% 32 0.01 0 0.0% 32 0.01 0 0.0% 32 0.01 0 0.0% 32 0.01 0 0.0% 32 0.01 0 0.0% 32 0.01 0	
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0.0% 32 0.01 0	
0.0% 30 0.01 0	
0.1% 32 0.01 0	
210 0.0% 32 0.01 0	
0.0% 34 0.01 0	
0.0% 30 0.01 0	
0.0% 34 0.01 0	
0.0% 34 0.01 0	
0.1% 36 0.01 0	
0.0% 36 0.01 0	
0.0% 34 0.01 0	
0.2% 32 0.01 0	
0.1% 32 0.01 0	
220 0.3% 32 0.01 0	
0.0% 30 0.01 0	
0.3% 30 0.01 0	
0.0% 30 0.01 0	
0.0% 30 0.01 0	

			1	
	0.2%	28	0.01	0
	0.1%	30	0.02	0
	0.1%	28	0.01	0
	0.0%	30	0.02	0
	0.1%	30	0.01	0
230	0.0%	30	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.3%	28	0.01	0
	0.2%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	30	0.01	0
240	0.1%	28	0.01	0
	0.1%	30	0.01	0
	0.1%	30	0.05	0
	0.1%	30	0.03	0
	0.1%	30	0.01	0
	0.1%	32	0.02	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
250	0.4%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.02	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	28	0.01	0
	0.1%	30	0.01	0
	0.0%	28	0.01	0
				· ·

0.1%	30	0.02	0
			0
			0
			0
			0
			0
			0
			0
			0
0.0%	28	0.01	0
0.0%	28	0.01	0
0.0%	24	0.01	0
0.0%	28	0.01	0
0.0%	24	0.01	0
0.1%	28	0.01	0
0.0%	28	0.01	0
0.1%	28	0.01	0
0.0%	28	0.01	0
0.0%	28	0.01	0
0.0%	28	0.01	0
0.0%	28	0.01	0
0.0%	28	0.01	0
0.1%	28	0.01	0
0.2%	24	0.01	0
0.0%	24	0.01	0
0.0%	26	0.01	0
0.0%	22	0.01	0
0.1%	24	0.01	0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	24	0.02	0
0.0%	24	0.01	0
0.0%	26	0.01	0
	0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.0%	0.0% 28 0.0% 30 0.1% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 24 0.0% 24 0.0% 28 0.0% 28 0.1% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 28 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0% 24 0.0%	0.0% 28 0.01 0.0% 30 0.01 0.0% 30 0.01 0.1% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 24 0.01 0.0% 24 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 28 0.01 0.0% 24 0.01 0.0% 24

0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	24	0.01	0
0.0%	22	0.01	0
0.0%	22	0.01	0
0.0%	22	0.01	0

Tabela 21: 50 Objetos Pre-Runtime Circle Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	1.6%	1	0.28	28400
	1.9%	1	0.31	28400
	1.9%	1	0.29	28400
	1.7%	1	0.29	28400
	1.8%	1	0.29	28400
	1.7%	1	0.28	28400
	1.7%	1	0.28	28400
	0.9%	1	0.28	28400
	1.2%	1	0.29	28400
10	4.9%	1	0.37	28400
	2.2%	1	0.33	28400
	1.8%	1	0.29	28400
	1.7%	1	0.29	28400
	1.6%	1	0.28	28400
	1.6%	1	0.28	28400
	1.9%	1	0.30	28400
	1.7%	1	0.28	28400
	1.7%	1	0.30	28400
	1.7%	1	0.28	28400
20	1.7%	1	0.30	28400
	1.8%	1	0.32	28400
	1.9%	1	0.28	28400
	1.7%	1	0.28	28400

	1.8%	1	0.31	28400
	1.9%	1	0.32	28400
	1.9%	1	0.31	28400
	1.8%	1	0.30	28400
	1.8%	1	0.29	28400
	1.9%	1	0.33	28400
30	1.7%	1	0.28	28400
	1.8%	1	0.29	28400
	1.7%	1	0.30	28400
	1.9%	1	0.28	28400
	1.7%	1	0.32	28400
	1.9%	1	0.28	28400
	1.7%	1	0.28	28400
	1.6%	1	0.29	28400
	1.9%	1	0.30	28400
	1.6%	1	0.29	28400
40	0.9%	1	0.27	28400
	1.3%	1	0.32	28400
	11.0%	1	0.63	28400
	1.7%	1	0.28	28400
	1.8%	1	0.30	28400
	1.8%	1	0.31	28400
	1.7%	1	0.28	28400
	1.7%	1	0.31	28400
	1.5%	1	0.30	28400
	1.8%	1	0.29	28400
50	1.8%	1	0.32	28400
	1.5%	1	0.36	28400
	2.9%	1	0.31	28400
	1.9%	1	0.30	28400
	1.7%	1	0.31	28400
	2.1%	1	0.31	28400
	1.8%	1	0.31	28400
	1.8%	1	0.31	28400

	1.9%	1	0.31	28400
	1.8%	1	0.30	28400
60	1.7%	1	0.30	28400
	1.7%	1	0.29	28400
	1.7%	1	0.28	28400
	1.6%	1	0.29	28400
	1.7%	1	0.29	28400
	1.7%	1	0.28	28400
	1.7%	1	0.28	28400
	1.6%	1	0.30	28400
	1.8%	1	0.30	28400
	1.7%	1	0.31	28400
70	1.8%	1	0.29	28400
	1.7%	1	0.30	28400
	1.0%	1	0.28	28400
	1.5%	1	0.35	28400
	10.8%	2	0.60	56900
	1.7%	1	0.28	28400
	1.7%	1	0.29	28400
	1.7%	1	0.28	28400
	1.8%	1	0.29	28400
	1.7%	1	0.28	28400
80	1.7%	2	0.30	28400
	1.7%	1	0.30	28400
	1.8%	1	0.60	28400
	1.8%	1	0.32	28400
	1.6%	1	0.29	28400
	3.2%	2	0.59	56900
	1.9%	1	0.32	28400
	3.3%	2	0.60	56900
90				
	1.6%	1	0.27	28400

			Т	
	1.7%	1	0.29	28400
	1.7%	1	0.29	28400
	1.6%	1	0.27	28400
	1.9%	1	0.30	28400
	1.7%	1	0.28	28400
	1.7%	1	0.32	28400
	1.8%	1	0.29	28400
	1.8%	1	0.29	56900
100	1.7%	1	0.33	28400
	1.8%	1	0.31	28400
	1.7%	1	0.28	28400
	1.8%	1	0.30	28400
	0.9%	1	0.28	28400
	2.9%	2	0.64	56900
	4.7%	1	0.33	28400
	1.8%	1	0.29	28400
	1.9%	1	0.31	28400
	1.8%	1	0.30	28400
110	1.8%	1	0.30	28400
	1.6%	1	0.30	28400
	1.6%	1	0.31	28400
	1.9%	1	0.37	28400
	1.9%	1	0.30	28400
	2.1%	1	0.28	28400
	1.8%	1	0.29	28400
	2.0%	1	0.31	28400
	1.6%	1	0.29	28400
	2.0%	1	0.32	28400
120	2.0%	1	0.32	28400
	1.8%	1	0.28	28400
	1.6%	1	0.28	28400
	1.7%	1	0.28	28400
	1.6%	1	0.28	28400
	1.8%	1	0.31	28400

		1	
1.8%	1	0.31	28400
1.9%	1	0.29	28400
1.7%	1	0.28	28400
1.7%	1	0.29	28400
1.8%	1	0.35	28400
1.6%	1	0.29	28400
1.7%	1	0.28	28400
1.7%	1	0.29	28400
1.8%	1	0.29	28400
1.7%	1	0.28	28400
1.0%	1	0.30	28400
2.1%	1	0.45	28400
5.0%	1	0.35	28400
2.0%	1	0.31	28400
1.8%	1	0.30	28400
1.9%	1	0.27	28400
1.6%	1	0.35	28400
2.1%	1	0.29	28400
1.7%	1	0.28	28400
1.7%	1	0.28	28400
2.1%	1	0.35	28400
1.9%	1	0.32	28400
1.9%	1	0.31	28400
1.9%	1	0.33	28400
1.9%	1	0.31	28400
1.9%	1	0.31	28400
1.7%	1	0.28	28400
1.8%	1	0.30	28400
1.6%	1	0.28	28400
1.7%	1	0.29	28400
1.9%	1	0.28	28400
1.7%	1	0.29	28400
1.6%	1	0.29	28400
1.8%	1	0.30	28400
	1.9% 1.7% 1.7% 1.8% 1.6% 1.7% 1.8% 1.7% 1.8% 1.0% 2.1% 5.0% 2.0% 1.8% 1.9% 1.6% 2.1% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1	1.9% 1 1.7% 1 1.8% 1 1.6% 1 1.7% 1 1.8% 1 1.7% 1 1.0% 1 2.1% 1 5.0% 1 2.0% 1 1.8% 1 1.9% 1 1.7% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.9% 1 1.6% 1 1.7% 1 1.6% 1	1.9% 1 0.29 1.7% 1 0.28 1.7% 1 0.29 1.8% 1 0.35 1.6% 1 0.29 1.7% 1 0.28 1.7% 1 0.29 1.8% 1 0.29 1.7% 1 0.28 1.0% 1 0.30 2.1% 1 0.35 2.0% 1 0.31 1.8% 1 0.30 1.9% 1 0.27 1.6% 1 0.35 2.1% 1 0.28 1.7% 1 0.28 1.9% 1 0.31 1.9% 1 0.31 1.9% 1 0.31 1.9% 1 0.31 1.9% 1 0.31 1.9% 1 0.33 1.9% 1 0.31 1.7% 1 0.28 1.7% 1 0.28 1.7% 1 0.

160	1.8%	1	0.77	28400
	1.7%	1	0.28	28400
	1.9%	1	0.31	28400
	1.8%	1	0.30	28400
	1.7%	1	0.30	28400
	1.9%	1	0.33	28400
	1.9%	1	0.30	28400
	1.7%	1	0.28	28400
	1.0%	1	0.30	28400
	2.6%	1	0.64	28400
170	13.0%	1	0.77	28400
	1.9%	1	0.29	28400
	1.8%	1	0.32	28400
	1.9%	1	0.31	28400
	1.8%	1	0.33	28400
	2.0%	1	0.30	28400
	1.9%	1	0.31	28400
	1.9%	1	0.33	28400
	2.0%	1	0.37	28400
	2.0%	1	0.30	28400
180	1.8%	1	0.29	28400
	1.9%	1	0.34	28400
	1.9%	1	0.28	28400
	1.7%	1	0.28	28400
	1.8%	1	0.31	28400
	1.9%	1	0.30	28400
	1.9%	1	0.30	28400
	1.8%	1	0.30	28400
	1.8%	1	0.31	28400
	1.9%	1	0.31	28400
190	1.8%	1	0.56	28400
	1.9%	1	0.30	28400
	1.7%	1	0.29	28400
	1.7%	1	0.30	28400

	1.7%	1	0.28	28400
	1.9%	1	0.32	28400
	1.7%	1	0.28	28400
	1.6%	1	0.27	28400
	1.9%	1	0.30	28400
	1.6%	1	0.28	28400
200	1.0%	1	0.29	28400
	1.8%	1	0.31	28400
	1.2%	2	0.56	56900
	8.5%	1	0.31	28400
	1.8%	1	0.29	28400
	1.7%	1	0.64	28400
	1.7%	1	0.29	28400
	2.1%	1	0.36	28400
	1.7%	1	0.29	28400
	2.0%	1	0.31	28400
210	1.8%	1	0.30	28400
	1.8%	1	0.31	28400
	2.0%	1	0.32	28400
	1.8%	1	0.32	28400
	1.8%	1	0.29	28400
	1.6%	1	0.28	28400
	1.0%	1	0.30	28400
	1.9%			
		1	0.32	28400
	1.8%	1	0.64	56900
220	3.4%	2		28400
			0.35	
	2.1%	1	0.30	28400
	2.1%	1	0.37	28400
	1.8%	1	0.33	28400
	1.9%	1	0.29	28400
	1.8%	1	0.32	28400
	3.0%	1	0.47	28400

	2.5%	1	0.44	28400
	2.2%	1	0.31	28400
230	1.3%	1	0.29	28400
	2.6%	1	0.30	28400
	1.0%	1	0.30	28400
	1.7%	2	0.98	56900
	4.4%	1	0.30	28400
	4.0%	1	0.33	28400
	1.9%	1	0.30	28400
	2.0%	1	0.32	28400
	1.7%	1	0.28	28400
	1.9%	1	0.31	28400
240	1.7%	1	0.28	28400
	1.5%	1	0.29	28400
	2.0%	1	0.31	28400
	1.7%	1	0.27	28400
	1.7%	1	0.29	28400
	2.0%	1	0.32	28400
	1.7%	1	0.28	28400
	1.8%	1	0.31	28400
	1.2%	1	0.30	28400
	1.7%	1	0.30	28400
250	1.9%	1	0.31	28400
	1.9%	1	0.34	28400
	2.1%	1	0.31	28400
	1.7%	1	0.32	28400
	2.1%	1	0.31	28400
	1.8%	1	0.28	28400
	1.6%	1	0.28	28400
	1.8%	1	0.30	28400
	1.6%	1	0.28	28400
	1.7%	1	0.29	28400
260	1.7%	1	0.29	28400
	1.8%	1	0.28	28400

1.7% 1 0.29 28400 1.9% 1 0.30 28400 1.7% 1 0.31 28400 1.2% 1 0.36 28400 1.5% 1 0.43 28400 5.4% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 1.9% 1 0.33 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 1.0% 1 0.32 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.8% 1 0.31 <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
1.7% 1 0.31 28400 1.2% 1 0.36 28400 1.5% 1 0.43 28400 5.4% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.33 28400 1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1		1.7%	1	0.29	28400
1.2% 1 0.36 28400 1.5% 1 0.43 28400 5.4% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 2.0% 1 0.33 28400 1.9% 1 0.33 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.34 28400 1.8% 1		1.9%	1	0.30	28400
1.5% 1 0.43 28400 5.4% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.33 28400 1.0% 1 0.32 28400 1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.31 28400 1.6% 1 0.28 28400 1.6% 1		1.7%	1	0.31	28400
5.4% 1 0.30 28400 1.9% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.9% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.34 28400 <tr< th=""><th></th><th>1.2%</th><th>1</th><th>0.36</th><th>28400</th></tr<>		1.2%	1	0.36	28400
1.9% 1 0.30 28400 1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.33 28400 2.0% 1 0.32 28400 1.0% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 1.6% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 1.6% 1		1.5%	1	0.43	28400
1.9% 1 0.31 28400 270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.32 28400 1.6% 1 0.28 28400 1.6% 1 0.28 28400 1.6% 1 0.28 28400 1.6% 1 0.29 28400 1.8% 1		5.4%	1	0.30	28400
270 2.0% 1 0.31 28400 1.6% 1 0.28 28400 1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.34 28400 1.6% 1 0.28 28400 1.6% 1 0.28 28400 2.0% 1 0.33 28400 1.6% 1 0.28 28400 <tr< th=""><th></th><th>1.9%</th><th>1</th><th>0.30</th><th>28400</th></tr<>		1.9%	1	0.30	28400
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1.7% 1 0.28 28400 1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.34 28400 1.6% 1 0.28 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1	270	2.0%	1	0.31	28400
1.7% 1 0.29 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.32 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 1.6% 1 0.28 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1		1.6%	1	0.28	28400
1.7% 1 0.28 28400 2.0% 1 0.33 28400 1.9% 1 0.33 28400 2.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 2.0% 1 0.33 28400 2.0% 1 0.28 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.7%	1	0.28	28400
2.0% 1 0.33 28400 1.9% 1 0.33 28400 2.0% 1 0.32 28400 1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.30 28400 1.8% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.7%	1	0.29	28400
1.9% 1 0.33 28400 2.0% 1 0.32 28400 1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.31 28400 2.1% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.6% 1 0.28 28400 2.0% 1 0.33 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.7%	1	0.28	28400
2.0% 1 0.32 28400 1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.6% 1 0.28 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		2.0%	1	0.33	28400
1.0% 1 0.32 28400 1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.30 28400 1.8% 1 0.34 28400 2.0% 1 0.28 28400 1.6% 1 0.27 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.9%	1	0.33	28400
1.8% 1 0.32 28400 280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.30 28400 1.8% 1 0.34 28400 2.0% 1 0.28 28400 1.6% 1 0.27 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		2.0%	1	0.32	28400
280 2.0% 2 0.34 28400 1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.0%	1	0.32	28400
1.9% 1 0.33 28400 2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.30 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.8%	1	0.32	28400
2.1% 1 0.31 28400 1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.7% 1 0.28 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400	280	2.0%	2	0.34	28400
1.9% 1 0.31 28400 1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.9%	1	0.33	28400
1.8% 1 0.31 28400 1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		2.1%	1	0.31	28400
1.8% 1 0.30 28400 2.0% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.8% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.9%	1	0.31	28400
2.0% 1 0.34 28400 1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.8%	1	0.31	28400
1.7% 1 0.28 28400 1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.8%	1	0.30	28400
1.6% 1 0.27 28400 2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		2.0%	1	0.34	28400
2.0% 1 0.33 28400 290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.7%	1	0.28	28400
290 1.6% 1 0.28 28400 1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.6%	1	0.27	28400
1.8% 1 0.30 28400 1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400		2.0%	1	0.33	28400
1.6% 1 0.29 28400 1.8% 1 0.29 28400 1.7% 1 0.30 28400	290	1.6%	1	0.28	28400
1.8% 1 0.29 28400 1.7% 1 0.30 28400		1.8%	1	0.30	28400
1.7% 1 0.30 28400		1.6%	1	0.29	28400
		1.8%	1	0.29	28400
1 000		1.7%	1	0.30	28400
2.0% 1 0.30 28400		2.0%	1	0.30	28400

1.7%	1	0.30	28400
1.0%	1	0.31	28400
1.1%	1	0.30	28400

A.1.4 CEM OBJETOS

Tabela 22: 100 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
70	0.0%	2	0.00	0
	0.0%			
		4	0.00	0
	0.0%	4	0.00	0

	0.0%	4		0
			0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
80				
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	12	0.01	0
	0.0%	6	0.00	0
90	0.0%	2	0.00	0
	0.0%			
		12	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
100	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0

110					
110 0.0% 8 0.01 0 0.0% 10 0.01 0 0.0% 16 0.01 0 0.0% 16 0.01 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 14 0.00 0 0.0% 14 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 16 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% 8 0.01 0 0.0% 10 0.01 0 0.0% 16 0.01 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 0.0% 18 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 18 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 <t< th=""><th></th><th>0.0%</th><th>18</th><th>0.00</th><th>0</th></t<>		0.0%	18	0.00	0
0.0% 10 0.01 0 0.0% 16 0.01 0 0.0% 18 0.01 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 14 0.00 0 0.0% 14 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 18 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0	110	0.0%	10	0.00	0
0.0% 16 0.01 0 0.0% 18 0.01 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 <		0.0%	8	0.01	0
0.0% 18 0.01 0 0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 0.0% 20 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 <		0.0%	10	0.01	0
0.0% 16 0.00 0 0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 120 0.0% 20 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 130 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% 10 0.00 0 0.0% 10 0.		0.0%	16	0.01	0
0.0% 16 0.00 0 0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 120 0.0% 20 0.00 0 0.0% 18 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 130 0.0% 10 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% 10 0.00 0 0.0% 10 0.		0.0%	18	0.01	0
0.0% 18 0.00 0 0.0% 6 0.00 0 0.0% 14 0.00 0 120 0.0% 20 0.00 0 0.0% 18 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% 16 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0		0.0%	16	0.00	0
0.0% 6 0.00 0 120 0.0% 14 0.00 0 120 0.0% 20 0.00 0 0.0% 18 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 130 0.0% 10 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8<		0.0%	16	0.00	0
0.0% 14 0.00 0 120 0.0% 20 0.00 0 0.0% 18 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 2 0.00 0		0.0%	18	0.00	0
120 0.0% 20 0.00 0 0.0% 18 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 130 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140		0.0%	6	0.00	0
0.0% 18 0.00 0 0.0% 12 0.00 0 0.0% 28 0.02 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0		0.0%	14	0.00	0
0.0% 12 0.00 0 0.0% 28 0.02 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0 <th>120</th> <th>0.0%</th> <th>20</th> <th>0.00</th> <th>0</th>	120	0.0%	20	0.00	0
0.0% 28 0.02 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 0 0		0.0%	18	0.00	0
0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	28	0.02	0
0.0% 10 0.00 0 0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 130 0.0% 10 0.00 0 0.0% 10 0.00 0 0 0.0% 12 0.00 0 0 0.0% 8 0.00 0 0 0.0% 10 0.00 0 0 0.0% 10 0.00 0 0 0.0% 6 0.00 0 0 0.0% 2 0.00 0 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 16 0.00 0 0.0% 12 0.00 0 0.0% 18 0.00 0 130 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 12 0.00 0 0.0% 18 0.00 0 130 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	10	0.00	0
0.0% 18 0.00 0 130 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	16	0.00	0
130 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 12 0.00 0 0.0% 8 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 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% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0	130	0.0%	10	0.00	0
0.0% 12 0.00 0 0.0% 8 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	10	0.00	0
0.0% 8 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	12	0.00	0
0.0% 10 0.00 0 0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	8	0.00	0
0.0% 8 0.00 0 0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	10	0.00	0
0.0% 6 0.00 0 0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	10	0.00	0
0.0% 2 0.00 0 140 0.0% 12 0.00 0		0.0%	8	0.00	0
140 0.0% 12 0.00 0		0.0%	6	0.00	0
		0.0%	2	0.00	0
0.00	140	0.0%	12	0.00	0
0.0% 2 0.00 0		0.0%	2	0.00	0

	0.00		0.00	
	0.0%	2	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
150	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
160	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
170	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	1		1	

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

210	0.0%	6	0.00	0
210	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.1%	14	0.03	0
220	0.0%	18	0.01	0
	0.1%	14	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
230	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.070		0.00	
	0.0%	14	0.00	0
	0.0%	17	0.00	
	0.070			
		6	0.00	0
	0.007	6		
240	0.0%		0.00	0
240	0.0%	2	0.00	0
	0.07		0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0

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

	0.0%	2	0.00	0
280				
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
290	0.0%	2	0.00	0
	0.0%	4	0.01	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0

Tabela 23: 100 Objetos Pre-Runtime Circle OnCollisionE-xit2D

totalPercent	calls	totalTime	gcMemory
	totalPercent	totalPercent calls	totalPercent calls totalTime calls totalTime calls totalTime calls totalTime

10					
60					
00					
	0.5%	2	0.09	0	
				0	
70					
	0.0%	4	0.00		
	0.0%		0.00	0	
80		8			
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
				0	
		2	0.00		
	0.0%		0.00	0	
	0.070		0.00		
90	0.0%	2	0.00	0	
70			0.00	0	
	0.0%	2			

	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.076		0.00	0
			0.00	0
				0
	0.007			
	0.0%	6	0.00	
	0.0%	8	0.00	
	0.0%	4	0.00	0
100	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%			
		8	0.00	0
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
110	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.0%	8	0.00	0
	0.0%	24	0.00	0
	0.0%	10	0.02	0
	0.0%	10	0.01	0
120	0.0%	22	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.00	0
	0.0%	10	0.00	0
	0.1%	20	0.00	0
	0.0%	6	0.00	0
	0.070		0.00	V

		1 -		
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
130	0.0%	16	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.0%	18	0.00	0
	0.1%	14	0.01	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
140				0
	0.0%	10	0.00	
	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
150	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	22	0.00	0
	0.0%	6	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.01	0
	0.1%	2	0.01	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0

160			0.00	0
		2		
	0.0%		0.00	0
	0.0%	14		
			0.00	0
	0.0%	6	0.00	0
	0.0%	16		
	0.0%	4	0.00	0
	0.0%	10	0.00	0
170	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
180	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
190	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0

				_
	0.0%	2	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	
			0.00	0
200	0.0%	8		0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.1%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	2	0.00	0
210	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.03	0
	0.0%	10	0.01	0
	0.0%	20	0.02	0
220	0.1%	18	0.00	0
	0.2%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.01	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.070		1	

	0.0%	6	0.00	0
•••	0.0%	4	0.00	0
230	0.0%	6	0.00	0
	0.0%	6		0
	0.0%	4		0
	0.0%	6	0.00	
	0.0%			
	0.0%		0.00	0
		6	0.00	0
			0.00	0
	0.0%	4	0.00	
		12	0.00	0
240	0.0%	8	0.00	0
	0.0%	6	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.01	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
250	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
260	0.0%	2	0.00	0
- 3				
260	0.0%	6	0.00	0

	0.00	4		0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	0
270	0.0%	4		
		4	0.00	0
	0.0%	6	0.00	
		10	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	
	0.0%		0.00	0
		6	0.00	0
280	0.0%	6	0.00	0
	0.0%	2	0.00	
		2	0.00	0
	0.0%	2		0
	0.0%	2	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%	4		0
	0.0%			0
	0.0%	2	0.00	0
290	0.0%	2	0.00	
	0.0%			0
	0.0%		0.00	
		4	0.00	0
		<u> </u>	0.00	0
	0.0%	8	0.00	0
	0.070	0	0.00	

0.0%	4	0.00	
	6	0.00	

Tabela 24: 100 Objetos Pre-Runtime Circle OnCollisionS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.1%	124	0.04	0
	0.1%	24	0.01	0
	0.2%	124	0.01	0
	0.2%	8	0.00	0
	0.0%	8		
	0.0%			0
		8	0.00	
	0.0%	4	0.00	0
10	0.0%	4	0.00	0
			0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.07	0
	0.0%	4	0.07	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
20	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
30	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	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
40	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
50	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
60	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
70	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.00	0
	0.0%	24	0.00	0
80	0.0%	18	0.00	0
	0.0%	18	0.01	0
	0.0%	22	0.01	0
	0.0%	24	0.00	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	18	0.00	0
	0.0%	20	0.00	0
	0.0%	24	0.01	0
	0.0%	28	0.01	0
90	0.0%	32	0.01	0
	0.1%	40	0.01	0
	0.1%	44	0.02	0
	0.1%	54	0.02	0
	0.1%	60	0.03	0
	0.1%	68	0.09	0
<u> </u>		1	1	1

0.1% 60 0.05 0 0.3% 58 0.04 0 0.6% 68 0.03 0 0.1% 56 0.03 0 0.1% 62 0.03 0 0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 74 0.04 0 0.2% 104 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.5% 162 0.09 0 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
0.6% 68 0.03 0 0.1% 56 0.03 0 100 0.2% 50 0.04 0 0.1% 62 0.03 0 0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.05 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.5% 134 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09		0.1%	60	0.05	0
0.1% 56 0.03 0 100 0.2% 50 0.04 0 0.1% 62 0.03 0 0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.05 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.5% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09		0.3%	58	0.04	0
100 0.2% 50 0.04 0 0.1% 62 0.03 0 0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.05 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.5% 134 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 164 0.08		0.6%	68	0.03	0
0.1% 62 0.03 0 0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 164 0.08 0		0.1%	56	0.03	0
0.1% 66 0.03 0 0.2% 68 0.04 0 0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 100 0.2% 104 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 164 0.08 0 0.5% 176 0.07 0 0.4% 166 0.08 0 0.5% <th>100</th> <th>0.2%</th> <th>50</th> <th>0.04</th> <th>0</th>	100	0.2%	50	0.04	0
0.2% 68 0.03 0 0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 160 0.09 0 0.5% 164 0.08 0 0.5% 176 0.07 0 0.4% 166 0.09 0		0.1%	62	0.03	0
0.2% 68 0.03 0 0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 160 0.08 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.3% 220 0.26 0		0.1%	66	0.03	0
0.2% 70 0.03 0 0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.05 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 160 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 <th></th> <th>0.2%</th> <th>68</th> <th>0.04</th> <th>0</th>		0.2%	68	0.04	0
0.2% 74 0.04 0 0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 11% 160 0.19 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 160 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 </th <th></th> <th>0.2%</th> <th>68</th> <th>0.03</th> <th>0</th>		0.2%	68	0.03	0
0.2% 82 0.04 0 0.3% 90 0.05 0 0.2% 104 0.04 0 110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.2%	70	0.03	0
0.3% 90 0.05 0 0.2% 104 0.04 0 110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.2%	74	0.04	0
0.2% 104 0.04 0 110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.2%	82	0.04	0
110 0.2% 104 0.04 0 0.3% 106 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	90	0.05	0
0.3% 106 0.04 0 0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.2%	104	0.04	0
0.3% 120 0.05 0 0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.07 0 0.3% 220 0.26 0 0.5% 178 0.10 0	110	0.2%	104	0.04	0
0.2% 162 0.05 0 0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.07 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	106	0.04	0
0.3% 162 0.06 0 0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	120	0.05	0
0.3% 130 0.09 0 0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.2%	162	0.05	0
0.5% 134 0.09 0 0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	162	0.06	0
0.4% 146 0.09 0 0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	130	0.09	0
0.3% 152 0.06 0 1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.5%	134	0.09	0
1.1% 160 0.19 0 120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.4%	146	0.09	0
120 0.5% 162 0.09 0 0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.3%	152	0.06	0
0.5% 162 0.09 0 0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		1.1%	160	0.19	0
0.5% 170 0.09 0 0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0	120	0.5%	162	0.09	0
0.5% 164 0.08 0 0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.5%	162	0.09	0
0.4% 166 0.08 0 0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.5%	170	0.09	0
0.5% 176 0.07 0 0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.5%	164	0.08	0
0.4% 176 0.09 0 0.3% 220 0.26 0 0.5% 178 0.10 0		0.4%	166	0.08	0
0.3% 220 0.26 0 0.5% 178 0.10 0		0.5%	176	0.07	0
0.5% 178 0.10 0		0.4%	176	0.09	0
		0.3%	220	0.26	0
1.1% 186 0.10 0		0.5%	178	0.10	0
		1.1%	186	0.10	0

1 4%	220	0.08	0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
0.6%	170	0.09	0
0.5%	188	0.08	0
0.5%	188	0.07	0
0.6%	190	0.12	0
0.6%	182	0.08	0
0.5%	170	0.09	0
0.5%	172	0.08	0
0.6%	172	0.07	0
0.5%	176	0.08	0
0.4%	170	0.07	0
0.4%	172	0.07	0
0.4%	164	0.07	0
0.4%	158	0.08	0
0.4%	160	0.06	0
1.5%	184	0.29	0
0.6%	172	0.10	0
0.3%	174	0.17	0
0.5%	166	0.12	0
1.6%	314	0.14	0
0.4%	154	0.06	0
0.4%	154	0.07	0
	0.5% 0.6% 0.5% 0.5% 0.6% 0.4% 0.4% 0.4% 0.4% 0.6% 0.5% 0.6% 0.4% 0.4% 0.4% 0.4% 0.4%	0.5% 196 0.6% 204 0.5% 210 0.6% 224 0.6% 220 0.5% 214 0.6% 208 0.5% 202 0.6% 192 0.6% 192 0.6% 170 0.5% 188 0.5% 188 0.5% 188 0.5% 170 0.5% 170 0.5% 172 0.6% 172 0.5% 176 0.4% 170 0.4% 164 0.4% 158 0.4% 164 0.4% 160 1.5% 184 0.6% 172 0.3% 174 0.5% 166 1.6% 314 0.4% 154	0.5% 196 0.10 0.5% 196 0.10 0.6% 204 0.10 0.5% 210 0.09 0.6% 224 0.10 0.6% 220 0.09 0.5% 214 0.09 0.6% 208 0.10 0.5% 202 0.09 0.6% 192 0.09 0.6% 192 0.09 0.6% 170 0.09 0.5% 188 0.08 0.5% 188 0.08 0.5% 188 0.07 0.6% 190 0.12 0.6% 182 0.08 0.5% 170 0.09 0.5% 172 0.08 0.6% 172 0.07 0.4% 170 0.07 0.4% 170 0.07 0.4% 158 0.08 0.4% 160 0.06 1.5%

	0.4%	184	0.08	0
	0.4%	152		
			0.07	0
	0.4%	162	0.10	0
	0.6%	172	0.17	0
	0.5%	184	0.09	0
170	0.5%	174	0.09	0
	0.9%	340	0.17	
	0.4%			0
		172	0.10	0
	0.5%	156	0.07	0
	0.4%	146	0.08	0
	0.4%	156	0.07	0
	0.4%	150	0.06	0
	0.4%	154	0.08	0
	0.4%	148	0.06	0
180	0.4%	150	0.06	0
	0.4%	156	0.07	0
	0.4%	152	0.07	0
	0.4%	142	0.07	0
	0.4%	146	0.07	0
	0.4%	144	0.07	0
	0.5%	146	0.06	0
	0.4%	150	0.07	0
	0.3%	150	0.06	0
	0.4%	148	0.06	0
190	0.3%	148	0.06	0
	0.3%	138	0.05	0
	1.3%	132	0.07	0
	1.5%	142	0.25	0
	0.4%	138	0.06	0
	0.3%	136	0.06	0
	0.3%	140	0.06	0
	0.4%	142	0.06	0
			1	

0.3% 144 0.06 0 200 0.3% 152 0.06 0 0.4% 148 0.07 0 0.4% 148 0.07 0 0.4% 148 0.07 0 0.4% 134 0.07 0 0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 13				1	
200 0.3% 152 0.06 0 0.4% 148 0.07 0 0.4% 148 0.07 0 0.3% 144 0.07 0 0.4% 134 0.07 0 0.4% 148 0.06 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 13		0.3%	144	0.06	0
0.4% 148 0.07 0 0.4% 148 0.07 0 0.3% 144 0.07 0 0.4% 134 0.07 0 0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.05 0 0.4% 134 0.		0.3%	146	0.06	0
0.4% 148 0.07 0 0.3% 144 0.07 0 0.4% 134 0.07 0 0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 0.2% 134 0.05 0 0.3% 136 0.	200	0.3%	152	0.06	0
0.3% 144 0.07 0 0.4% 134 0.07 0 0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.05 0 0.2% 134 0.05 0 0.4% 134 0.		0.4%	148	0.07	0
0.4% 134 0.07 0 0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 12		0.4%	148	0.07	0
0.4% 148 0.05 0 0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 12		0.3%	144	0.07	0
0.3% 148 0.06 0 0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.		0.4%	134	0.07	0
0.4% 150 0.07 0 0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.05 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.5% 108 0.05 0 0.1% 23		0.4%	148	0.05	0
0.2% 150 0.11 0 1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 11		0.3%	148	0.06	0
1.0% 142 0.06 0 210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	150	0.07	0
210 0.3% 140 0.06 0 1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.2%	150	0.11	0
1.6% 142 0.07 0 0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 110 0.07 0 1.8% 120 0.07 0		1.0%	142	0.06	0
0.4% 232 0.06 0 0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 110 0.07 0 1.8% 120 0.07 0	210	0.3%	140	0.06	0
0.3% 138 0.07 0 0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 110 0.07 0 1.8% 120 0.07 0		1.6%	142	0.07	0
0.4% 138 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	232	0.06	0
0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 136 0.07 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	138	0.07	0
0.3% 134 0.06 0 0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	138	0.06	0
0.3% 134 0.06 0 0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	134	0.06	0
0.3% 134 0.08 0 0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	134	0.06	0
0.4% 134 0.05 0 220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	134	0.06	0
220 0.4% 134 0.05 0 0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	134	0.08	0
0.3% 136 0.07 0 0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	134	0.05	0
0.4% 136 0.05 0 1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0	220	0.4%	134	0.05	0
1.0% 128 0.07 0 0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.3%	136	0.07	0
0.4% 120 0.07 0 0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	136	0.05	0
0.5% 108 0.05 0 0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		1.0%	128	0.07	0
0.1% 232 0.36 0 1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.4%	120	0.07	0
1.6% 232 0.14 0 1.6% 110 0.07 0 1.8% 120 0.07 0		0.5%	108	0.05	0
1.6% 110 0.07 0 1.8% 120 0.07 0		0.1%	232	0.36	0
1.8% 120 0.07 0		1.6%	232	0.14	0
		1.6%	110	0.07	0
230 0.4% 122 0.05 0		1.8%	120	0.07	0
	230	0.4%	122	0.05	0
0.3% 118 0.06 0		0.3%	118	0.06	0

			1	
	0.3%	112	0.06	0
	0.3%	110	0.06	0
	0.3%	128	0.06	0
	0.3%	116	0.07	0
	0.4%	112	0.07	
	0.4%	122	0.05	0
	0.4%	124	0.09	
	0.5%	126	0.06	0
240	0.4%	130	0.08	0
	0.5%		0.06	0
	0.4%	266		0
			0.12	0
	0.6%	140		0
		128	0.06	0
	0.3%	126	0.06	0
	0.4%	126	0.07	0
	0.4%	118	0.06	0
	0.3%	124	0.04	0
250	0.2%	124	0.06	0
	0.3%	128	0.05	0
	0.3%	126	0.07	0
	0.3%	126	0.05	0
	0.4%	124	0.23	0
	0.3%	130	0.05	0
	0.3%	124	0.06	0
	0.4%	126	0.06	0
	0.3%	250	0.05	0
	0.1%	124	0.28	0
260	1.2%	124	0.06	0
	0.7%	122	0.07	0
	0.5%	120	0.07	0
	0.4%	122	0.07	0
	0.4%	120	0.07	0
	0.4%	124	0.06	0

0.3% 122 0.09 0 0.3% 128 0.06 0 0.5% 130 0.06 0 0.3% 124 0.06 0 270 0.4% 120 0.05 0 0.3% 120 0.05 0 0.3% 112 0.06 0 0.3% 128 0.05 0 0.3% 130 0.05 0 0.3% 130 0.05 0 0.3% 130 0.05 0 0.3% 126 0.06 0 280 0.4% 124 0.05 0 0.3% 126 0.06 0 0.3% 126 0.06 0 0.3% 126 0.06 0 0.3% 126 0.06 0 0.3% 128 0.05 0	
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270 0.4% 120 0.05 0 0.3% 120 0.05 0 0.3% 112 0.06 0 0.4% 116 0.05 0 0.3% 128 0.05 0 0.3% 130 0.05 0 0.3% 130 0.05 0 0.3% 130 0.06 0 0.3% 126 0.06 0 280 0.4% 124 0.05 0 0.3% 126 0.06 0 0.3% 126 0.06 0	
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0.4% 116 0.05 0 0.3% 128 0.05 0 0.3% 130 0.05 0 0.3% 130 0.05 0 0.3% 130 0.05 0 0.3% 130 0.06 0 0.3% 126 0.06 0 280 0.4% 124 0.05 0 0.6% 130 0.05 0 0.3% 126 0.06 0	
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0.3% 130 0.06 0 0.3% 126 0.06 0 280 0.4% 124 0.05 0 0.6% 130 0.05 0 0.3% 126 0.06 0	
0.3% 126 0.06 0 280 0.4% 124 0.05 0 0.6% 130 0.05 0 0.3% 126 0.06 0	
280 0.4% 124 0.05 0 0.6% 130 0.05 0 0.3% 126 0.06 0	
0.6% 130 0.05 0 0.3% 126 0.06 0	
0.3% 126 0.06 0	
0.3% 128 0.05 0	
0.570 126 0.05 0	
0.3% 130 0.06 0	
0.3% 134 0.05 0	
0.3% 130 0.23 0	
1.1% 128 0.07 0	
0.5% 122 0.05 0	
0.3% 122 0.05 0	
290 0.3% 126 0.07 0	
0.2% 124 0.25 0	
1.1% 120 0.11 0	
1.3% 122 0.05 0	
0.3% 124 0.16 0	
0.9% 122 0.10 0	
0.6% 122 0.06 0	
0.4% 122 0.05 0	

Tabela 25: 100 Objetos Pre-Runtime Circle OnCollisionS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.1%	124	0.04	0
	0.1%	24	0.01	0
	0.2%	124	0.01	0
	0.2%	8	0.00	0
	0.0%	8		
	0.0%			0
		8	0.00	
	0.0%	4	0.00	0
10	0.0%	4	0.00	0
			0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.07	0
	0.0%	4	0.07	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
20	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
30	0.0%	4	0.00	0
	0.0%	4	0.00	0

			1	
	0.0%	8	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
40	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
50	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
60	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
	-1		1	1

0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 70 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0 0.0% 10 0.00 0	
0.0% 4 0.00 0 0.0% 4 0.00 0 70 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0	
0.0% 4 0.00 0 70 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0	
70 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0	
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0.0% 4 0.00 0 0.0% 10 0.00 0 0.0% 10 0.00 0 0.0% 12 0.00 0	
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0.0% 10 0.00 0 0.0% 12 0.00 0	
0.0% 12 0.00 0	
0.0%	
0.0% 10 0.00 0	
0.0% 10 0.00 0	
0.0% 14 0.00 0	
0.0% 24 0.00 0	
80 0.0% 18 0.00 0	
0.0% 18 0.01 0	
0.0% 22 0.01 0	
0.0% 24 0.00 0	
0.0% 26 0.01 0	
0.0% 26 0.01 0	
0.0% 18 0.00 0	
0.0% 20 0.00 0	
0.0% 24 0.01 0	
0.0% 28 0.01 0	
90 0.0% 32 0.01 0	
0.1% 40 0.01 0	
0.1% 44 0.02 0	
0.1% 54 0.02 0	
0.1% 60 0.03 0	
0.1% 68 0.09 0	
0.1% 60 0.05 0	
0.3% 58 0.04 0	
0.6% 68 0.03 0	
0.1% 56 0.03 0	

0.207	50	0.04	0
			0
			0
0.1%	66	0.03	0
0.2%	68	0.04	0
0.2%	68	0.03	0
0.2%	70	0.03	0
0.2%	74	0.04	0
0.2%	82	0.04	0
0.3%	90	0.05	0
0.2%	104	0.04	0
0.2%	104	0.04	0
0.3%	106	0.04	0
0.3%	120	0.05	0
0.2%	162	0.05	0
0.3%	162	0.06	0
0.3%	130	0.09	0
0.5%	134	0.09	0
0.4%	146	0.09	0
0.3%	152	0.06	0
1.1%	160	0.19	0
0.5%	162	0.09	0
0.5%	162	0.09	0
0.5%	170	0.09	0
0.5%	164	0.08	0
0.4%	166	0.08	0
0.5%	176	0.07	0
0.4%	176	0.09	0
0.3%	220	0.26	0
0.5%	178	0.10	0
1.1%	186	0.10	0
1.4%	220	0.08	0
0.5%	192	0.09	0
0.5%	196	0.10	0
0.6%	204	0.10	0
	0.2% 0.2% 0.2% 0.3% 0.2% 0.3% 0.3% 0.3% 0.3% 0.4% 0.5% 0.5% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 1.1% 1.4% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5%	0.1% 62 0.1% 66 0.2% 68 0.2% 70 0.2% 74 0.2% 82 0.3% 90 0.2% 104 0.2% 104 0.3% 120 0.2% 162 0.3% 130 0.5% 134 0.4% 146 0.3% 152 1.1% 160 0.5% 162 0.5% 162 0.5% 164 0.4% 166 0.5% 176 0.4% 176 0.3% 220 0.5% 178 1.1% 186 1.4% 220 0.5% 192 0.5% 196	0.1% 62 0.03 0.1% 66 0.03 0.2% 68 0.04 0.2% 70 0.03 0.2% 74 0.04 0.2% 74 0.04 0.2% 82 0.04 0.3% 90 0.05 0.2% 104 0.04 0.3% 106 0.04 0.3% 120 0.05 0.2% 162 0.05 0.3% 120 0.05 0.3% 162 0.06 0.3% 130 0.09 0.5% 134 0.09 0.3% 152 0.06 1.1% 160 0.19 0.5% 162 0.09 0.5% 162 0.09 0.5% 162 0.09 0.5% 176 0.08 0.5% 176 0.07 0.4% 176 0.09 0.5%

0.5% 210 0.09 0 0.6% 224 0.10 0 0.6% 220 0.09 0 0.5% 214 0.09 0 0.6% 208 0.10 0 0.5% 202 0.09 0 140 0.6% 192 0.09 0 0.6% 188 0.11 0 0.6% 192 0.09 0	
0.6% 220 0.09 0 0.5% 214 0.09 0 0.6% 208 0.10 0 0.5% 202 0.09 0 140 0.6% 192 0.09 0 0.6% 188 0.11 0	
0.5% 214 0.09 0 0.6% 208 0.10 0 0.5% 202 0.09 0 140 0.6% 192 0.09 0 0.6% 188 0.11 0	
0.6% 208 0.10 0 0.5% 202 0.09 0 140 0.6% 192 0.09 0 0.6% 188 0.11 0	
0.5% 202 0.09 0 140 0.6% 192 0.09 0 0.6% 188 0.11 0	
140 0.6% 192 0.09 0 0.6% 188 0.11 0	
0.6% 188 0.11 0	
0.6% 192 0.09 0	
0.070	
0.6% 170 0.09 0	
0.5% 188 0.08 0	
0.5% 188 0.07 0	
0.6% 190 0.12 0	
0.6% 182 0.08 0	
0.5% 170 0.09 0	
0.5% 172 0.08 0	
150 0.6% 172 0.07 0	
0.5% 176 0.08 0	
0.4% 170 0.07 0	
0.4% 172 0.07 0	
0.4% 164 0.07 0	
0.4% 158 0.08 0	
0.4% 160 0.06 0	
1.5% 184 0.29 0	
0.6% 172 0.10 0	
0.3% 174 0.17 0	
160 0.5% 166 0.12 0	
1.6% 314 0.14 0	
0.4% 154 0.06 0	
0.4% 154 0.07 0	
0.4% 184 0.08 0	
0.4% 152	
0.07 0	
0.4% 162 0.10 0	

170	0.6%	172	0.17	0
170	0.5%	1		
170		184	0.09	0
170	0.5%	174	0.09	0
	0.9%	340	0.17	
	0.4%			0
		172	0.10	0
	0.5%	156	0.07	0
	0.4%	146	0.08	0
	0.4%	156	0.07	0
	0.4%	150	0.06	0
	0.4%	154	0.08	0
	0.4%	148	0.06	0
180	0.4%	150	0.06	0
	0.4%	156	0.07	0
	0.4%	152	0.07	0
	0.4%	142	0.07	0
	0.4%	146	0.07	0
	0.4%	144	0.07	0
	0.5%	146	0.06	0
	0.4%	150	0.07	0
	0.3%	150	0.06	0
	0.4%	148	0.06	0
190	0.3%	148	0.06	0
	0.3%	138	0.05	0
	1.3%	132	0.07	0
	1.5%	142	0.25	0
	0.4%	138	0.06	0
	0.3%	136	0.06	0
	0.3%	140	0.06	0
	0.4%	142	0.06	0
	0.3%	144	0.06	0
	0.3%	146	0.06	0
200	0.3%	152	0.06	0
	0.4%	148	0.07	0

			T	I
	0.4%	148	0.07	0
	0.3%	144	0.07	0
	0.4%	134	0.07	0
	0.4%	148	0.05	0
	0.3%	148	0.06	0
	0.4%	150	0.07	0
	0.2%	150	0.11	0
	1.0%	142	0.06	0
210	0.3%	140	0.06	0
	1.6%	142	0.07	0
	0.4%	232	0.06	0
	0.3%	138	0.07	0
	0.4%	138	0.06	0
	0.3%	134	0.06	0
	0.3%	134	0.06	0
	0.3%	134	0.06	0
	0.3%	134	0.08	0
	0.4%	134	0.05	0
220	0.4%	134	0.05	0
	0.3%	136	0.07	0
	0.4%	136	0.05	0
	1.0%	128	0.07	0
	0.4%	120	0.07	0
	0.5%	108	0.05	0
	0.1%	232	0.36	0
	1.6%	232	0.14	0
	1.6%	110	0.07	0
	1.8%	120	0.07	0
230	0.4%	122	0.05	0
	0.3%	118	0.06	0
	0.3%	112	0.06	0
	0.3%	110	0.06	0
	0.3%	128	0.06	0
	0.3%	116	0.07	0

		1	
0.4%	112	0.07	
0.4%	122	0.05	0
0.4%	124	0.09	
0.5%	126	0.06	0
0.4%	130	0.08	0
0.5%		0.06	0
0.4%	266		0
		0.12	0
0.6%	140		0
	128	0.06	0
0.3%	126	0.06	0
0.4%	126	0.07	0
0.4%	118	0.06	0
0.3%	124	0.04	0
0.2%	124	0.06	0
0.3%	128	0.05	0
0.3%	126	0.07	0
0.3%	126	0.05	0
0.4%	124	0.23	0
0.3%	130	0.05	0
0.3%	124	0.06	0
0.4%	126	0.06	0
0.3%	250	0.05	0
0.1%	124	0.28	0
1.2%	124	0.06	0
0.7%	122	0.07	0
0.5%	120	0.07	0
0.4%	122	0.07	0
0.4%	120	0.07	0
0.4%	124	0.06	0
0.3%	122	0.09	0
0.3%	128	0.06	0
0.5%	130	0.06	0
0.3%	124	0.06	0
	0.4% 0.4% 0.5% 0.4% 0.5% 0.4% 0.6% 0.3% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.4% 0.5% 0.4% 0.5%	0.4% 124 0.5% 126 0.4% 130 0.5% 130 0.5% 0.4% 0.4% 266 0.6% 140 128 126 0.4% 126 0.4% 124 0.3% 124 0.3% 126 0.3% 126 0.3% 126 0.3% 126 0.3% 124 0.3% 124 0.3% 124 0.3% 124 0.4% 124 0.5% 120 0.4% 122 0.4% 122 0.4% 124 0.3% 122 0.4% 124 0.3% 122 0.4% 124 0.3% 122 0.4% 124 0.3% 128 0.5% 130	0.4% 122 0.05 0.4% 124 0.09 0.5% 126 0.06 0.4% 130 0.08 0.5% 0.06 0.06 0.4% 266 0.02 0.6% 140 128 0.06 0.3% 126 0.06 0.07 0.4% 126 0.07 0.04% 0.06 0.3% 124 0.06 0.07 0.3% 124 0.06 0.3% 124 0.06 0.07 0.3% 126 0.05 0.3% 126 0.05 0.05 0.05 0.05 0.05 0.4% 124 0.23 0.05<

270	0.4%	120	0.05	0
	0.3%	120	0.05	0
	0.3%	112	0.06	0
	0.4%	116	0.05	0
	0.3%	128	0.05	0
	0.3%	130	0.05	0
	0.3%	130	0.05	0
	0.3%	130	0.05	0
	0.3%	130	0.06	0
	0.3%	126	0.06	0
280	0.4%	124	0.05	0
	0.6%	130	0.05	0
	0.3%	126	0.06	0
	0.3%	128	0.05	0
	0.3%	130	0.06	0
	0.3%	134	0.05	0
	0.3%	130	0.23	0
	1.1%	128	0.07	0
	0.5%	122	0.05	0
	0.3%	122	0.05	0
290	0.3%	126	0.07	0
	0.2%	124	0.25	0
	1.1%	120	0.11	0
	1.3%	122	0.05	0
	0.3%	124	0.16	0
	0.9%	122	0.10	0
	0.6%	122	0.06	0
	0.4%	122	0.05	0

Tabela 26: 100 Objetos Pre-Runtime Circle OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10					
10					
60					
		2	0.11	0	
			0.11	U	
	0.0%				
			0.00	0	
	0.0%		0.00	0	
70					
90		4			
80		4			
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
L	I				

				0	
				0	
90					
	0.007		0.00		
	0.0%	2	0.00		
100			0.00		
100				0	
		4			
			0.00		
	0.0%			0	
		2			
				0	
110					
	0.0%				
		4	0.00		
				0	

120					
140	0.0%				
110	0.070		0.00		
			0.00		
				0	
				0	
	0.0%	2			
	0.0%	2	0.00		
				0	
150					
	0.0%	2	0.00		
				0	
160					
	0.05:		0.55		
	0.0%	2	0.00		
				0	

170				
190				
	0.0%	2	0.00	
	0.0%	4	0.00	
	0.0%			
				0
200		4	0.00	
	0.0%			
		2	0.00	0
	0.0%	2		
			0.00	
	0.0%	2		0
				0
210				
			0.00	
	0.0%		0.00	
220				0

	2			
0.0%	2	0.00		
0.0%		0.00	0	
	2			
0.0%		0.00		
0.070		0.00	0	
	2			
0.0%		0.00		
			0	
	0.0%	0.0% 2 0.0% 2 0.0% 2	0.0% 2 0.00 0.0% 0.00 2 0.00 0.0% 0.00	0.0% 2 0.00 0.0% 0.00 0 0.0% 0.00 0 0 2 0 0.0% 0

Tabela 27: 100 Objetos Pre-Runtime Circle OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
40	0.6%	2	0.11	0
	0.0%	2	0.00	0
	0.0%	6	0.01	0
	0.0%	2	0.00	0
	0.0%	12	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
	0.2%	6	0.00	0
	0.0%	6	0.00	0
	0.2%	2	0.00	0
50	0.2%	2	0.01	0
	0.2%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.1%	6	0.00	0
	0.1%	6	0.01	0
	0.1%	6	0.01	0
	0.0%	6	0.00	0
	0.1%	6	0.00	0
	0.2%	6	0.00	0

60	0.0%	6	0.00	0
00	0.0%	14	0.02	0
	0.0%	14	0.02	0
			0.01	0
	0.2%	14		
	0.0%	10	0.00	0
	0.1%	10	0.00	0
	0.0%	14	0.01	0
	0.0%	8	0.01	0
	0.0%	8	0.01	0
	0.0%	8	0.00	0
70	0.0%	14	0.01	0
	0.0%	14	0.01	0
	0.1%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	14	0.01	0
	0.0%	32	0.01	0
	0.0%	10	0.00	0
	0.0%	32	0.00	0
	0.0%	10	0.00	0
	0.1%	32	0.00	0
80	0.0%	14	0.00	0
	0.1%	14	0.00	0
	0.0%	14	0.00	0
	0.1%	14	0.01	0
	0.0%	16	0.03	0
	0.0%	12	0.02	0
	0.0%	12	0.01	0
	0.0%	14	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
90	0.0%	12	0.01	0
	0.0%	22	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.070	12	0.01	U

	0.0%	14	0.01	0
	0.0%	14	0.02	0
	0.0%	22	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.02	0
100	0.0%	22	0.02	0
	0.0%	16	0.05	0
	0.0%	22	0.02	0
	0.0%	22	0.01	0
	0.0%	22	0.01	0
	0.1%	22	0.01	0
	0.0%	24	0.01	0
	0.0%	30	0.01	0
	0.1%	22	0.04	0
	0.0%	30	0.02	0
110	0.0%	22	0.01	0
	0.1%	24	0.01	0
	0.0%	20	0.04	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.03	0
	0.0%	30	0.02	0
	0.0%	20	0.02	0
	0.0%	30	0.04	0
	0.1%	30	0.02	0
120	0.1%	30	0.02	0
	0.0%	26	0.04	0
	0.0%	36	0.02	0
	0.0%	28	0.02	0
	0.1%	36	0.02	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
			1	

0.3% 30 0.01 0 0 0.3% 30 0.01 0 0 0 0.3% 30 0.01 0 0 0.1% 36 0.02 0 0 0.1% 34 0.01 0 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 0 0.0% 36 0.01 0 0 0.0% 36 0.01 0 0 0.0% 38 0.01 0 0 0.1% 38 0.01 0 0 0.3% 36 0.01 0 0 0.3% 36 0.01 0 0 0.1% 38 0.01 0 0 0.3% 36 0.01 0 0 0 0.3% 36 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 38 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 36 0.01 0 0 0.1% 34 0.01 0 0 0.1% 32 0.01 0 0 0.1% 0		0.007	20	0.04	0
130 0.1% 30 0.01 0 0.3% 30 0.01 0 0.1% 36 0.02 0 0.1% 30 0.07 0 0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.3% 36 0.01 0 0.3% 38 0.01 0 0.3% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.02		0.0%	30	0.04	0
0.3% 30 0.01 0 0.1% 36 0.02 0 0.1% 30 0.07 0 0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.2% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 36 0.01 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.01					
0.1% 36 0.02 0 0.1% 30 0.07 0 0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.2% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 36 0.01	130	0.1%	30	0.01	0
0.1% 30 0.07 0 0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.3% 36 0.01 0 0.3% 36 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 36 0.01		0.3%	30	0.01	0
0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.01 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.3% 36 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.02 0 0.1% 36 0.01		0.1%	36	0.02	0
0.0% 34 0.01 0 0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.3% 36 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01		0.1%	30	0.07	0
0.0% 36 0.02 0 0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.04 0 0.1% 38 0.01 0 0.1% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01		0.0%	34	0.01	0
0.0% 36 0.04 0 0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 34 0.01		0.0%	34	0.01	0
0.0% 36 0.04 0 0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01		0.0%	36	0.02	0
0.0% 36 0.01 0 140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.1% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01		0.0%	36	0.04	0
140 0.3% 36 0.01 0 0.0% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32		0.0%	36	0.04	0
0.0% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.3% 38 0.02 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 0.01 0		0.0%	36	0.01	0
0.1% 38 0.01 0 0.1% 38 0 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 <tr< td=""><td>140</td><td>0.3%</td><td>36</td><td>0.01</td><td>0</td></tr<>	140	0.3%	36	0.01	0
0.1% 38 0 0.0% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.0%	38	0.01	0
0.0% 38 0.01 0 0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	38	0.01	0
0.3% 36 0.01 0 0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	38		0
0.2% 38 0.02 0 0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.0%	38	0.01	0
0.3% 38 0.01 0 0.1% 38 0.04 0 0.1% 38 0 150 0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.3%	36	0.01	0
0.1% 38 0.04 0 0.1% 38 0 150 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.2%	38	0.02	0
0.1% 38 0 150 0.1% 38 0.02 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.3%	38	0.01	0
150 0.1% 38 0.02 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	38	0.04	0
0.1% 36 0.01 0 0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	38		0
0.1% 36 0.01 0 0.0% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0	150	0.1%	38	0.02	0
0.0% 36 0.01 0 0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	36	0.01	0
0.1% 36 0.01 0 0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	36	0.01	0
0.2% 36 0.01 0 0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.0%	36	0.01	0
0.1% 34 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	36	0.01	0
0.1% 32 0.01 0 0.1% 32 0.01 0 0.1% 32 0.01 0		0.2%	36	0.01	0
0.1% 32 0.01 0 0.1% 32 0.01 0		0.1%	34	0.01	0
0.1% 32 0.01 0		0.1%	32	0.01	0
		0.1%	32	0.01	0
160 0.1% 32 0.01 0		0.1%	32	0.01	0
	160	0.1%	32	0.01	0
0.1% 68 0.01 0		0.1%	68	0.01	0

	0.1%	32	0.01	0
	0.1%	32	0.01	0
	0.1%		0.01	0
	0.1%	32	0.01	0
	0.1%	34	0.01	0
	0.1%	36	0.01	0
	0.1%	72	0.01	0
	0.1%		0.04	0
170	0.1%	36	0.03	0
	0.1%	36	0.01	0
	0.1%	26	0.01	0
	0.1%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	34	0.01	0
	0.4%	34	0.01	0
	0.1%	26	0.01	0
	0.1%	34	0.02	0
180	0.1%	34	0.01	0
	0.1%	34	0.02	0
	0.3%	34	0.01	
	0.4%	26	0.01	0
	0.0%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	28	0.01	0
	0.4%	34	0.01	0
	0.1%	34	0.01	0
	0.4%	34	0.01	
190	0.1%	68	0.01	0
		34	0.01	0
	0.0%	34	0.01	0
	0.0%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	28	0.01	0

	0.2%	34	0.01	0
		34	0.07	0
	0.1%	28	0.01	0
	0.1%	34	0.01	0
200	0.0%	34	0.01	0
	0.1%	34	0.01	0
	0.1%	34	0.06	0
	0.1%	32	0.03	0
	0.0%	28	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.01	0
210	0.0%	28	0.01	0
	0.1%	28	0.02	0
	0.1%	26	0.03	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28		0
	0.0%	26	0.02	0
	0.2%	26		0
	0.4%	26	0.01	0
220	0.1%	52	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	0.1%	28	0.01	0
	1		1	1

230	0.1%	20	0 0 4	
	0.170	28	0.04	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.2%		0.01	0
	0.1%	56	0.01	0
	0.0%		0.01	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	0
240	0.0%	30	0.01	0
	0.0%	28	0.01	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.3%	24	0.01	0
	0.1%	30	0.01	0
	0.0%	48	0.01	0
	0.1%	24	0.01	0
250	0.0%	24	0.01	0
	0.3%	24	0.01	0
	0.1%	24	0.01	0
	0.4%	26	0.01	0
	0.0%	26	0.01	0
	0.0%	30	0.01	0
	0.0%	32	0.05	0
	0.1%	32	0.01	0
	0.1%	32	0.01	0
	0.0%	32	0.01	
260	0.0%	32	0.01	0
	0.1%	30	0.05	
	0.1%	32	0.04	0
	0.2%	32	0.02	0

	0.04		0.04	
	0.0%	32	0.04	0
	0.1%	32	0.01	0
		32	0.01	0
	0.1%	32	0.01	0
		32	0.01	0
	0.0%	30	0.01	0
270	0.0%	32	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.03	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
280	0.0%	30	0.01	0
	0.1%	30	0.01	0
	0.1%	30	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
	0.1%	30		0
	0.0%	30		0
	0.0%	30		0
	0.1%	30		0
	0.1%	30		0
290	0.1%	30		0
	0.1%	30		0
	0.0%	30		0
	0.1%	30		0
	0.0%	30		0
	0.0%	30		0
	0.0%	30		0
	0.0%	30		0

Tabela 28: 100 Objetos Pre-Runtime Circle Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	3.5%	6	1.59	85300
	4.6%	2	0.87	28400
	10.5%	2	0.92	28400
	2.7%	1	0.36	14200
	4.5%	2	0.79	28400
	2.2%	1	0.37	14200
10	2.2%	1	0.39	14200
	3.1%	1	0.49	14200
	2.0%	1	0.33	14200
	2.1%	1	0.35	14200
	1.9%	1	0.32	14200
	2.7%	1	0.42	14200
	1.9%	1	0.32	14200
	1.9%	1	0.32	14200
	2.0%	1	0.34	14200
	2.6%	1	0.45	14200
20	1.9%	1	0.31	14200
	1.9%	1	0.31	14200
	2.0%	1	0.34	14200
·	2.9%	1	0.46	14200
	2.0%	1	0.34	14200
	2.1%	1	0.34	14200
	2.0%	1	0.34	14200
	2.8%	1	0.45	14200
	1.7%	1	0.33	14200
	1.1%	1	0.33	14200
30	4.2%	2	0.90	28400
	7.6%	1	0.41	14200

	2.7%	1	0.48	14200
	2.4%	1	0.39	14200
	2.2%	1	0.37	14200
	3.0%	1	0.50	14200
	2.2%	1	0.39	14200
	2.4%	1	0.40	14200
	3.1%	1	0.51	14200
	3.1%	1	0.50	14300
40	3.0%	1	0.50	14200
	3.0%	1	0.50	14200
	2.4%	1	0.40	14200
	2.3%	1	0.36	14200
	2.8%	1	0.47	14200
	2.0%	1	0.35	14200
	2.0%	1	0.34	14200
	2.9%	1	0.47	14300
	2.1%	1	0.37	14200
	2.1%	1	0.35	14200
50	2.9%	1	0.47	14200
	2.1%	1	0.35	14200
	2.0%	1	0.35	14200
	3.0%	1	0.47	14200
	2.0%	1	0.34	14200
	2.1%	1	0.36	14200
	2.6%	1	0.48	14200
	2.4%	1	0.35	14200
	2.1%	1	0.37	14300
	1.6%	1	0.47	14200
60	2.9%	1	0.62	14200
	5.9%	1	0.48	14200
	3.5%	1	0.55	14200
	3.6%	1	0.58	14200
	2.5%	1	0.43	14200
	3.5%	1	0.59	14300
	1	1	1	I .

	2.4%	1	0.39	14200
	2.9%	1	0.51	42700
	4.1%	1	0.70	42700
	3.4%	1	0.51	42700
70	2.9%	1	0.50	49800
	3.4%	1	0.60	49800
	2.8%	1	0.44	49800
	2.7%	1	0.44	64000
	3.4%	1	0.54	64000
	2.6%	1	0.45	78200
	2.8%	1	0.47	78200
	3.5%	1	0.58	92400
	3.1%	1	0.52	92400
	2.9%	1	0.47	92400
80	3.6%	1	0.61	106600
	2.9%	1	0.49	92400
	3.0%	1	0.49	99500
	3.4%	1	0.59	120900
	3.0%	1	0.50	128000
	3.4%	1	0.56	149300
	4.2%	1	0.66	163500
	3.3%	1	0.63	199100
	4.2%	1	0.63	220400
	2.7%	1	0.75	220400
90	5.4%	1	1.28	220400
	12.4%	1	0.92	213300
	7.5%	1	1.26	206200
	5.2%	1	0.76	241800
	4.1%	1	0.73	234600
	5.1%	1	0.84	241700
	5.1%	1	0.81	263000
	4.9%	1	0.84	298600
	6.0%	1	0.94	305700
	4.8%	1	0.82	319900

100	4.7%	1	0.79	348400
	5.4%	1	0.88	383900
	5.2%	1	0.88	398100
	5.4%	1	0.90	433700
	5.7%	1	1.00	462100
	8.4%	1	1.30	490500
	5.6%	1	0.99	500000
	8.2%	1	1.38	600000
	8.6%	1	1.37	600000
	7.9%	1	1.31	600000
110	7.5%	1	1.32	600000
	11.3%	1	1.87	600000
	8.6%	1	1.41	700000
	8.5%	1	1.47	700000
	7.6%	1	1.19	700000
	7.4%	1	1.25	700000
	7.4%	1	1.19	600000
	7.1%	1	1.16	700000
	7.1%	1	1.22	700000
	4.3%	1	1.17	700000
120	14.7%	1	3.50	700000
	28.8%	1	2.07	800000
	7.4%	1	1.18	700000
	7.1%	1	1.20	800000
	7.7%	1	1.27	800000
	8.2%	1	1.31	800000
	7.4%	1	1.31	800000
	8.5%	1	1.33	800000
	7.6%	1	1.34	800000
	9.3%	1	1.50	800000
130	8.6%	1	1.46	800000
	8.7%	1	1.39	800000
	8.1%	1	1.46	700000
	8.5%	1	1.30	700000

	8.3%	1	1.39	700000
	8.2%	1	1.32	700000
	7.5%	1	1.30	700000
	8.2%	1	1.30	700000
	8.3%	1	1.41	700000
	7.1%	1	1.13	700000
140	6.6%	1	1.11	600000
	6.9%	1	1.15	600000
	6.8%	1	1.15	600000
	7.0%	1	1.10	600000
	6.7%	1	1.15	600000
	7.0%	1	1.13	600000
	6.7%	1	1.14	600000
	11.8%	1	2.32	600000
	7.9%	1	1.22	600000
	4.4%	1	1.18	700000
150	9.0%	1	1.88	700000
	36.9%	2	3.26	1200000
	8.6%	1	1.25	600000
	7.4%	1	1.20	600000
	7.4%	1	1.25	600000
	5.8%	1	1.09	600000
	7.6%	1	1.22	600000
	7.1%	1	1.21	700000
	8.2%	1	1.34	700000
160	12.6%	2	2.38	1300000
	7.2%	1	1.29	600000
	7.5%	1	1.23	600000
	7.1%	1	1.23	600000
	7.6%	1	1.21	600000
	6.9%	1	1.22	600000
	6.7%	1	1.07	600000

	6.3%	1	1.03	600000
	6.5%	1	1.06	500000
170	6.2%	1	1.06	600000
	6.7%	1	1.08	600000
	6.4%	1	1.08	500000
	6.5%	1	1.15	600000
	7.2%	1	1.08	600000
	6.1%	1	1.02	500000
	6.2%	1	1.04	500000
	6.2%	1	1.01	500000
	6.4%	1	1.06	500000
	3.2%	1	1.00	500000
180	21.6%	2	4.19	1000000
	25.3%	1	1.77	511900
	6.3%	1	1.01	511900
	5.9%	1	1.03	500000
	6.3%	1	1.00	500000
	6.8%	1	1.09	500000
	6.2%	1	1.04	600000
	6.2%	1	1.08	600000
	7.5%	1	1.23	500000
	6.7%	1	1.13	500000
190	7.1%	1	1.19	500000
	7.7%	1	1.23	500000
	7.0%	1	1.25	600000
	7.0%	1	1.17	600000
	41.6%	1	15.47	500000
	18.6%	1	1.16	500000
	6.0%	1	0.97	500000
	5.8%	1	0.96	500000
	5.6%	1	0.99	500000
	6.3%	1	0.99	500000
200	6.3%	1	1.07	500000
	6.0%	1	0.96	504800

5.7%	1	0.97	500000
6.6%	1	1.09	500000
5.8%	1	0.98	500000
6.1%	1	1.00	500000
8.0%	1	1.59	511900
6.6%	1	1.04	497700
7.0%	1	1.03	490500
3.2%	1	0.95	490500
11.2%	1	2.42	504800
29.0%	2	2.25	900000
6.3%	1	0.95	483400
5.7%	1	0.95	483400
6.1%	1	0.99	497700
6.5%	1	1.11	476300
5.8%	1	1.02	462100
7.1%	1	1.11	469200
6.0%	1	1.06	447900
7.1%	1	1.07	476300
6.6%	1	1.15	476300
6.8%	1	1.10	483400
6.1%	1	1.06	476300
6.8%	1	1.09	483400
9.5%	2	1.76	1000000
5.5%	1	0.97	511900
5.8%	1	0.95	500000
6.1%	1	1.01	497700
5.7%	1	0.95	469200
5.4%	1	0.91	476300
5.6%	1	1.00	462100
6.1%	1	0.95	483400
6.2%	1	1.03	490500
	_		-
	6.6% 5.8% 6.1% 8.0% 6.6% 7.0% 3.2% 11.2% 29.0% 6.3% 5.7% 6.1% 6.5% 5.8% 7.1% 6.6% 6.8% 6.1% 6.8% 9.5% 5.5% 5.8% 6.1% 6.8% 6.1% 5.7% 5.4% 5.6% 6.1%	6.6% 1 5.8% 1 6.1% 1 8.0% 1 6.6% 1 7.0% 1 3.2% 1 11.2% 1 29.0% 2 6.3% 1 5.7% 1 6.1% 1 5.8% 1 7.1% 1 6.0% 1 7.1% 1 6.6% 1 6.8% 1 6.1% 1 5.5% 1 5.8% 1 6.1% 1 5.4% 1 5.6% 1 6.1% 1	6.6% 1 1.09 5.8% 1 0.98 6.1% 1 1.00 8.0% 1 1.59 6.6% 1 1.04 7.0% 1 1.03 3.2% 1 0.95 11.2% 1 2.42 29.0% 2 2.25 6.3% 1 0.95 5.7% 1 0.95 6.1% 1 0.99 6.5% 1 1.11 5.8% 1 1.02 7.1% 1 1.11 6.0% 1 1.06 7.1% 1 1.07 6.6% 1 1.15 6.8% 1 1.00 6.1% 1 1.06 5.5% 1 0.97 5.8% 1 0.95 6.1% 1 1.01 5.7% 1 0.95 6.1% 1 1.01 5.5% 1 0.95 5.4% 1

	6.1%	1	0.96	504800
	6.1%	1	0.99	483400
	5.7%	1	0.98	497700
	3.4%	1	1.02	483400
240	11.6%	2	2.75	900000
	11.8%	1	1.06	469200
	6.5%	1	0.96	483400
	6.1%	1	1.01	483400
	6.3%	1	1.10	483400
	6.7%	1	1.07	476300
	6.9%	1	1.15	490500
	7.0%	1	1.20	490500
	7.1%	1	1.11	483400
	6.6%	1	1.12	469200
250	6.5%	1	1.10	462100
	6.3%	1	1.04	462100
	6.3%	1	1.00	447900
	5.8%	1	0.95	462100
	5.5%	1	0.94	476300
	6.2%	1	0.99	476300
	5.7%	1	0.97	476300
	6.0%	1	0.98	476300
	5.8%	1	0.99	490500
	6.0%	1	1.00	483400
260	5.8%	1	0.96	497700
	5.9%	1	0.98	483400
	5.7%	1	0.94	462100
	5.5%	1	0.92	490500
	5.9%	1	0.99	497700
	9.7%	1	1.90	483400
	7.3%	1	1.01	483400
	6.0%	1	1.01	462100
	5.6%	1	0.92	462100
	3.3%	1	0.92	462100

(
270	9.0%	1	2.07	455000
	31.7%	1	2.60	455000
	7.6%	1	1.23	469200
	8.1%	1	1.43	455000
	8.4%	1	1.35	447900
	9.0%	1	1.33	447900
	6.1%	1	1.04	440800
	6.8%	1	1.07	447900
	6.0%	1	1.05	440800
	6.5%	1	1.03	447900
280	6.2%	1	1.08	469200
	6.2%	1	0.96	476300
	5.6%	1	0.95	490500
	5.7%	1	0.96	497700
	6.1%	1	1.05	490500
	6.1%	1	0.96	483400
	5.8%	1	0.98	476300
	5.5%	1	0.94	469200
	6.5%	1	1.06	469200
	7.3%	1	1.17	469200
290	3.9%	1	1.14	469200
	11.6%	1	1.02	469200
	7.5%	1	1.10	476300
	6.2%	1	0.96	469200
	5.4%	1	0.92	476300
	5.5%	1	0.92	476300
	4.1%	1	0.91	469200
	0.3%	1	0.94	462100

A.1.5 QUINHENTOS OBJETOS

Tabela 29: 500 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.0%	6	0.00	0
	0.076	U	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	U
70	0.070			
70		4	0.00	0
	0.0%	4	0.00	0
			0.00	U
	0.0%	4	0.00	0
	0.007		0.00	0
	0.0%	4	0.00	0
	0.00		0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0

0.0%	4	0.00	0
0.0%	4	0.00	0
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%	12	0.00	0
0.0%	4	0.00	0
0.0%			
	8	0.00	0
0.0%	4	0.00	0
0.0%	2	0.00	0
0.0%	2	0.00	0
0.0%	10	0.02	0
0.1%	8	0.02	0
0.0%	6	0.00	0
0.0%	8	0.01	0
0.0%	8	0.00	0
0.0%	8	0.00	0
0.0%	14	0.00	0
0.0%	6	0.00	0
0.1%	22	0.02	0
0.0%	6	0.00	0
0.0%	16	0.00	0
0.0%	2	0.00	0
0.0%	28	0.01	0
0.0%	10	0.02	0
0.1%	18	0.01	0
0.0%	10	0.00	0
0.0%	12	0.00	0
0.0%	16	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 0.0% 8 0.0% 12 0.0% 4 0.0% 4 0.0% 4 0.0% 2 0.0% 10 0.1% 8 0.0% 6 0.0% 8 0.0% 8 0.0% 14 0.0% 8 0.0% 6 0.1% 22 0.0% 6 0.0% 16 0.0% 2 0.0% 16 0.0% 2 0.0% 10 0.1% 18 0.0% 10 0.1% 18 0.0% 10 0.0% 10 0.0% 12	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% 12 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 2 0.00 0.0% 2 0.00 0.0% 10 0.02 0.1% 8 0.02 0.0% 6 0.00 0.0% 8 0.01 0.0% 8 0.00 0.0% 8 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 6 0.00 0.0% 16 0.00 0.0% 2 0.00 0.0% 16 0.00 0.0% 10 0.00

			1	
	0.0%	16	0.00	0
	0.1%	22	0.04	0
	0.0%	16	0.01	0
	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	14	0.00	0
120	0.0%	22	0.01	0
	0.0%	14	0.00	0
	0.0%	34	0.10	0
	0.3%	38	0.01	0
	0.1%	20	0.00	0
	0.0%	18	0.00	0
	0.0%	16	0.01	0
	0.0%	20	0.00	0
	0.1%	34	0.01	0
	0.0%	28	0.01	0
130	0.0%	14	0.00	0
	0.0%	26	0.01	0
	0.0%	20	0.01	0
	0.0%	18	0.01	0
	0.0%	8	0.00	0
	0.0%	10	0.00	0
	0.0%	10	0.00	0
	0.0%	8	0.00	0
	0.0%	20	0.01	0
	0.0%	32	0.00	0
140	0.0%	12	0.00	0
	0.0%	12	0.00	0
	0.0%	26	0.01	0
	0.0%	32	0.01	0
	0.0%	24	0.01	0
	0.0%	16	0.00	0
	0.0%	18	0.01	0
	0.0%	18	0.01	0
			1	1

	0.0%	6	0.00	0
	0.0%	28	0.01	0
150	0.0%	12	0.00	0
130	0.0%	30	0.00	0
	0.0%	28	0.01	0
	0.0%	26	0.01	
				0
	0.0%	24	0.02	0
	0.0%	20	0.01	0
	0.1%	18	0.00	0
	0.0%	16	0.00	0
	0.0%	20	0.01	0
	0.0%	24	0.01	0
160	0.0%	22	0.01	0
	0.0%	20	0.00	0
	0.0%	40	0.02	0
	0.3%	72	0.05	0
	0.1%	38	0.02	0
	0.1%	50	0.02	0
	0.1%	46	0.02	0
	0.3%	48	0.02	0
	0.1%	42	0.02	0
	0.1%	46	0.07	0
170	0.4%	50	0.03	0
	0.1%	54	0.05	0
	0.2%	62	0.03	0
	0.3%	46	0.05	0
	0.1%	56	0.02	0
	0.1%	46	0.02	0
	0.2%	54	0.04	0
	0.2%	40	0.05	0
	0.4%	54	0.05	0
	0.2%	62	0.02	0
180	0.3%	90	0.06	0
	0.1%	50	0.02	0

		1	I	
	0.1%	72	0.06	0
	0.3%	50	0.03	0
	0.1%	52	0.03	0
	0.1%	50	0.15	0
	0.4%	144	0.04	0
	0.2%	62	0.02	0
	0.2%	72	0.04	0
	0.1%	62	0.03	0
190	0.2%	68	0.03	0
	0.1%	52	0.02	0
	0.2%	60	0.04	0
	0.1%	68	0.04	0
	0.2%	76	0.05	0
	0.4%	112	0.09	0
	0.1%	42	0.02	0
	0.2%	50	0.03	0
	0.1%	52	0.02	0
	0.1%	78	0.02	0
200	0.1%	46	0.03	0
	0.2%	60	0.05	0
	0.1%	46	0.02	0
	0.2%	58	0.03	0
	0.1%	54	0.02	0
	0.2%	68	0.03	0
	0.3%	78	0.05	0
	0.2%	78	0.04	0
	0.2%	52	0.03	0
	0.3%	80	0.05	0
210	0.2%	86	0.04	0
	0.3%	102	0.05	0
	0.3%	86	0.04	0
	0.2%	80	0.04	0
	0.2%	98	0.04	0
	0.1%	74	0.04	0
	1	1	ı	1

	0.107	90	0.04	0
	0.1%	80	0.04	0
	0.3%	210	0.11	0
	0.4%	180	0.09	0
	0.5%	98	0.08	0
220	0.2%	84	0.04	0
	0.3%	86	0.05	0
	0.4%	92	0.06	0
	0.5%	98	0.08	0
	0.3%	76	0.05	0
	0.3%	64	0.04	0
	0.2%	66	0.03	0
	0.2%	62	0.03	0
	0.2%	84	0.05	0
	0.3%	52	0.04	0
230	0.2%	66	0.04	0
	0.1%	84	0.02	0
	0.3%	112	0.06	0
	0.2%	70	0.04	0
	0.2%	58	0.06	0
	0.1%	40	0.02	0
	0.1%	44	0.02	0
	0.2%	58	0.03	0
	0.1%	38	0.02	0
	0.1%	52	0.02	0
240	0.1%	42	0.02	0
	0.1%	48	0.02	0
	0.0%	58	0.03	0
	0.1%	92	0.10	0
	0.3%	34	0.06	0
	0.3%	98	0.04	0
	0.1%	74	0.01	0
	0.3%	112	0.06	0
	0.1%	46	0.02	0
	0.1%	36	0.03	0
<u> </u>			<u> </u>	

250	0.1% 0.2% 0.2%	48 44 36	0.02	0
	0.2%		0.03	0
		26		
	0.007	36	0.04	0
	0.0%	30	0.01	0
	0.2%	40	0.03	0
	0.0%	34	0.01	0
	0.1%	38	0.01	0
	0.1%	28	0.01	0
	0.1%	34	0.01	0
	0.1%	38	0.02	0
260	0.1%	46	0.01	0
	0.1%	34	0.04	0
	0.1%	36	0.01	0
	0.2%	50	0.03	0
	0.1%	48	0.02	0
	0.0%	24	0.01	0
	0.0%	30	0.01	0
	0.1%	36	0.02	0
	0.0%	46	0.02	0
	0.1%	32	0.02	0
270	0.1%	36	0.02	0
	0.0%	38	0.03	0
	0.1%	76	0.05	0
	0.1%	72	0.04	0
	0.2%	42	0.01	0
	0.1%	30	0.01	0
	0.1%	40	0.01	0
	0.1%	36	0.02	0
	0.1%	40	0.03	0
	0.1%	36	0.02	0
280	0.1%	30	0.01	0
	0.1%	58	0.02	0
	0.1%	42	0.01	0
	0.1%	44	0.02	0

0.1% 46 0.02 0 0.1% 38 0.01 0 0.1% 32 0.01 0 0.0% 42 0.02 0 0.1% 34 0.01 0 0.1% 66 0.01 0 290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0 0.1% 42 0.02 0					
0.1% 32 0.01 0 0.0% 42 0.02 0 0.1% 34 0.01 0 0.1% 66 0.01 0 290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	46	0.02	0
0.0% 42 0.02 0 0.1% 34 0.01 0 0.1% 66 0.01 0 290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	38	0.01	0
0.1% 34 0.01 0 0.1% 66 0.01 0 290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	32	0.01	0
0.1% 66 0.01 0 290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.0%	42	0.02	0
290 0.0% 28 0.03 0 0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	34	0.01	0
0.1% 60 0.01 0 0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	66	0.01	0
0.1% 28 0.01 0 0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0	290	0.0%	28	0.03	0
0.2% 42 0.04 0 0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	60	0.01	0
0.1% 20 0.01 0 0.0% 30 0.01 0 0.0% 32 0.01 0		0.1%	28	0.01	0
0.0% 30 0.01 0 0.0% 32 0.01 0		0.2%	42	0.04	0
0.0% 32 0.01 0		0.1%	20	0.01	0
		0.0%	30	0.01	0
0.1% 42 0.02 0		0.0%	32	0.01	0
		0.1%	42	0.02	0

Tabela 30: 500 Objetos Pre-Runtime Circle OnCollisionE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				

	0.6%	2	0.11	0
	0.070		0.11	
70	0.0%	4	0.00	
	0.0%			
	0.0%			
				0
		4	0.00	
	0.0%			
				0
		4	0.00	0
80		2	0.00	0
	0.0%	4		0
	0.0%	4		
			0.00	
			0.00	0
	0.0%	4	0.00	
90				
				0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	

	0.0%	4	0.00	0
	0.070		0.00	0
100	0.0%	6	0.00	0
100	0.0%	6	0.00	0
	0.0%	8	0.00	0
		_		U
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%		0.00	0
		2	0.00	0
	0.0%	8	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
110	0.0%	12	0.00	0
	0.0%	4	0.00	0
	0.0%	14	0.00	0
	0.1%	24	0.00	0
	0.1%	24	0.02	0
	0.0%	20	0.01	0
	0.0%	16	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	4	0.00	0
120	0.0%	14	0.00	0
	0.0%	8	0.02	0
	0.0%	14	0.00	0
	0.1%	18	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%	16	0.00	0
	0.0%	14	0.01	0
	0.0%	16	0.00	0
130	0.0%	16	0.00	0
	0.0%	14	0.00	0

	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.1%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	10	0.01	0
	0.1%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.01	0
140	0.0%	18	0.00	0
	0.0%	4	0.00	0
	0.0%	34	0.01	0
	0.0%	20	0.00	0
	0.0%	12	0.00	0
	0.0%	16	0.00	0
	0.1%	14	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
150	0.0%	34	0.00	0
	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.1%	34	0.03	0
	0.1%	18	0.02	0
	0.0%	16	0.00	0
	0.1%	10	0.00	0
	0.0%	18	0.00	0
	0.0%	28	0.00	0
160	0.0%	18	0.01	0
	0.0%	30	0.02	0
	0.0%	24	0.01	0
	0.1%	48	0.02	0
	0.1%	26	0.01	0
	0.1%	16	0.01	0
	-			

	0.0%	28	0.01	0
	0.0%	20	0.01	0
	0.0%	28	0.02	0
	0.1%	36	0.01	0
170	0.1%	30	0.02	0
	0.0%	28	0.01	0
	0.0%	28	0.02	0
	0.1%	32	0.01	0
	0.1%	30	0.00	0
	0.0%	26	0.01	0
	0.0%	34	0.05	0
	0.1%	60	0.03	0
	0.2%	46	0.03	0
	0.0%	40	0.02	0
180	0.1%	48	0.01	0
	0.1%	60	0.03	0
	0.1%	34	0.03	0
	0.2%	50	0.02	0
	0.1%	40	0.01	0
	0.0%	40	0.08	0
	0.2%	110	0.02	0
	0.1%	60	0.02	0
	0.2%	64	0.03	0
	0.1%	36	0.01	0
190	0.1%	54	0.02	0
	0.1%	66	0.03	0
	0.1%	40	0.02	0
	0.0%	32	0.06	0
	0.1%	110	0.07	0
	0.2%	116	0.03	0
	0.3%	32	0.02	0
	0.2%	48	0.02	0
	0.1%	46	0.03	0
	0.1%	48	0.02	0

200	0.1%	58	0.02	0
	0.1%	46	0.02	0
	0.1%	42	0.02	0
	0.1%	32	0.01	0
	0.2%	66	0.03	0
	0.2%	48	0.03	0
	0.2%	76	0.03	0
	0.1%	60	0.02	0
	0.1%	50	0.02	0
	0.3%	64	0.04	0
210	0.3%	50	0.03	0
	0.2%	68	0.02	0
	0.1%	68	0.03	0
	0.1%	60	0.03	0
	0.1%	36	0.03	0
	0.0%	46	0.02	0
	0.0%	40	0.02	0
	0.3%	168	0.09	0
	0.3%	112	0.07	0
	0.3%	68	0.04	0
220	0.1%	82	0.03	0
	0.3%	76	0.03	0
	0.1%	42	0.02	0
	0.3%	70	0.03	0
	0.2%	66	0.04	0
	0.2%	90	0.03	0
	0.3%	64	0.04	0
	0.1%	84	0.04	0
	0.2%	90	0.03	0
	0.2%	70	0.03	0
230	0.2%	68	0.03	0
	0.1%	68	0.04	0
	0.2%	124	0.06	0
	0.3%	80	0.04	0

	0.3%	64	0.07	0
	0.3%	90	0.05	0
	0.3%	116	0.05	0
	0.2%	62	0.04	0
	0.3%	90	0.05	0
	0.1%	88	0.04	0
240	0.2%	98	0.06	0
	0.3%	30	0.04	0
	0.3%	72	0.03	0
	0.1%	82	0.02	0
	0.1%	152	0.11	0
	0.3%	128	0.06	0
	0.1%	30	0.03	0
	0.3%	116	0.02	0
	0.1%	42	0.02	0
	0.1%	30	0.02	0
250	0.1%	36	0.01	0
	0.0%	30	0.01	0
	0.1%	48	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.01	0
	0.1%	26	0.01	0
	0.1%	36	0.01	0
	0.1%	40	0.02	0
	0.1%	48	0.02	0
	0.0%	22	0.01	0
260	0.1%	50	0.02	0
	0.1%	46	0.02	0
	0.1%	44	0.02	0
	0.1%	26	0.02	0
	0.1%	46	0.02	0
	0.1%	44	0.02	0
	0.1%	34	0.02	0
	0.0%	26	0.01	0
			1	

0.0% 28 0.01 0 0.1% 46 0.02 0 270 0.1% 22 0.01 0 0.0% 60 0.01 0 0.0% 32 0.05 0 0.1% 78 0.01 0 0.2% 72 0.04 0 0.1% 40 0.01 0	
270 0.1% 22 0.01 0 0.0% 60 0.01 0 0.0% 32 0.05 0 0.1% 78 0.01 0 0.2% 72 0.04 0 0.1% 40 0.01 0	
0.0% 60 0.01 0 0.0% 32 0.05 0 0.1% 78 0.01 0 0.2% 72 0.04 0 0.1% 40 0.01 0	
0.0% 32 0.05 0 0.1% 78 0.01 0 0.2% 72 0.04 0 0.1% 40 0.01 0	
0.1% 78 0.01 0 0.2% 72 0.04 0 0.1% 40 0.01 0	
0.2% 72 0.04 0 0.1% 40 0.01 0	
0.1% 40 0.01 0	
0.167	
0.1% 58 0.02 0	
0.1% 42 0.01 0	$\overline{}$
0.1% 34 0.01 0	
0.1% 46 0.02 0	
280 0.1% 60 0.02 0	
0.1% 50 0.06 0	
0.3% 70 0.01 0	
0.2% 60 0.03 0	
0.1% 56 0.03 0	
0.2% 36 0.01 0	
0.1% 24 0.01 0	
0.1% 26 0.01 0	
0.0% 22 0.02 0	
0.0% 22 0.01 0	
290 0.1% 54 0.02 0	
0.1% 32 0.01 0	
0.1% 36 0.03 0	
0.1% 38 0.02 0	
0.2% 40 0.03 0	
0.1% 42 0.01 0	
0.1% 32 0.01 0	
0.1% 24 0.01 0	

Tabela 31: 500 Objetos Pre-Runtime Circle OnCollisionS-tay2D

quadras Tatal	totalPercent	calls	totalTime	gaMamami
quadrosTotal	totaireicent	Calls	totarrine	gcMemory
	0.10/	120	0.07	0
	0.1%	120	0.07	0
	0.5%	60	0.14	0
	0.7%	20	0.08	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
10	0.0%	20	0.01	0
	0.1%	20	0.02	0
	0.3%	20	0.06	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.02	0
	0.0%	20	0.01	0
	0.1%	20	0.02	0
	0.1%	20	0.02	0
	0.0%	20	0.01	0
20	0.0%	20	0.01	0
	0.1%	20	0.02	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.03	0
30	0.4%	40	0.03	0
	0.0%	20	0.01	0
	l .	l		L

	T		1	1
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
40	0.1%	20	0.02	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
50	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.0%	20	0.00	0
	0.4%	40	0.09	0
60	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.00	0
	0.0%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	-1	1	1	1

0.0% 20 0.01 0.2% 24 0.03 0.0% 24 0.01 0.1% 28 0.01	0 0
0.0% 24 0.01	
	0
0.1% 28 0.01	
	0
70 0.0% 24 0.01	0
0.0% 24 0.01	0
0.0% 28 0.01	0
0.2% 32 0.03	0
0.1% 32 0.01	0
0.0% 32 0.01	0
0.1% 32 0.01	0
0.0% 36 0.01	0
0.1% 40 0.01	0
0.0% 36 0.01	0
80 0.1% 36 0.01	0
0.0% 40 0.01	0
0.1% 44 0.02	0
0.1% 48 0.01	0
0.1% 52 0.02	0
0.1% 56 0.02	0
0.1% 64 0.03	0
0.1% 76 0.03	0
0.1% 80 0.03	0
0.2% 80 0.05	0
90 0.4% 78 0.04	0
0.1% 76 0.03	0
0.2% 80 0.03	0
0.2% 82 0.04	0
0.2% 82 0.03	0
0.6% 88 0.10	0
0.3% 92 0.05	0
0.3% 98 0.05	0
0.2% 100 0.04	0
0.2% 102 0.04	0

0.50	100	0.00	
			0
0.3%	112	0.06	0
0.6%	112	0.11	0
0.6%	134	0.10	0
0.4%	138	0.07	0
0.3%	146	0.06	0
0.4%	138	0.07	0
0.5%	154	0.08	0
0.4%	168	0.07	0
0.4%	164	0.08	0
0.4%	160	0.07	0
0.5%	152	0.09	0
1.0%	144	0.22	0
0.5%	146	0.07	0
0.6%	146	0.09	0
0.4%	144	0.08	0
0.4%	152	0.06	0
0.4%	162	0.07	0
0.2%	176	0.07	0
0.9%	176	0.25	0
1.7%	416	0.24	0
1.0%	216	0.11	0
0.6%	228	0.11	0
0.7%	228	0.12	0
0.6%	234	0.10	0
0.7%	252	0.12	0
0.7%	264	0.12	0
1.0%	264	0.16	0
0.7%	278	0.12	0
0.7%	284	0.12	0
0.8%	282	0.13	0
0.9%	270	0.15	0
0.6%	266	0.11	0
0.8%	260	0.12	0
	0.6% 0.4% 0.3% 0.4% 0.5% 0.4% 0.4% 0.4% 0.5% 1.0% 0.5% 0.6% 0.4% 0.4% 0.4% 0.4% 0.4% 0.7% 1.0% 0.6% 0.7% 0.6% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7	0.3% 112 0.6% 134 0.4% 138 0.3% 146 0.4% 138 0.5% 154 0.4% 168 0.4% 164 0.4% 160 0.5% 152 1.0% 144 0.5% 146 0.6% 146 0.4% 144 0.4% 152 0.4% 162 0.2% 176 0.9% 176 1.7% 416 1.0% 216 0.6% 228 0.7% 228 0.6% 234 0.7% 252 0.7% 264 1.0% 264 0.7% 278 0.7% 284 0.8% 282 0.9% 270 0.6% 266	0.3% 112 0.06 0.6% 134 0.10 0.4% 138 0.07 0.3% 146 0.06 0.4% 138 0.07 0.5% 154 0.08 0.4% 168 0.07 0.4% 160 0.07 0.5% 152 0.09 1.0% 144 0.22 0.5% 146 0.07 0.6% 146 0.09 0.4% 144 0.08 0.4% 152 0.06 0.4% 162 0.07 0.2% 176 0.07 0.2% 176 0.07 0.9% 176 0.25 1.7% 416 0.24 1.0% 216 0.11 0.6% 228 0.11 0.7% 252 0.12 0.7% 264 0.16 0.7% 264 0.16 0.7% 284 0.12 0.6% 270 0.15 <t< td=""></t<>

	0.6%	258	0.11	0
	0.8%	260	0.13	0
	0.7%	254	0.11	0
	0.7%	262	0.12	0
	0.7%	268	0.12	0
	0.9%	288	0.15	0
140	0.9%	296	0.14	0
	0.8%	298	0.14	0
	1.1%	302	0.17	0
	0.9%	306	0.16	0
	0.8%	298	0.14	0
	0.8%	310	0.14	0
	1.0%	306	0.15	0
	0.8%	316	0.15	0
	0.5%	324	0.15	0
	2.2%	316	0.53	0
150	1.9%	318	0.27	0
	1.2%	320	0.15	0
	1.0%	326	0.17	0
	0.9%	328	0.16	0
	1.0%	334	0.15	0
	0.8%	326	0.14	0
	0.5%	322	0.21	0
	2.8%	688	0.37	0
	1.2%	360	0.17	0
	1.6%	382	0.26	0
160	1.4%	412	0.24	0
	1.3%	430	0.24	0
	1.4%	442	0.22	0
	1.8%	454	0.29	0
	2.4%	476	0.41	0
	1.5%	502	0.24	0
	1.6%	532	0.28	0
	1.9%	548	0.32	0

	2.0%	578	0.33	0
	1.9%	590	0.31	0
170	3.5%	598	0.79	0
	4.1%	598	0.55	0
	2.4%	616	0.34	0
	2.9%	630	0.52	0
	2.1%	686	0.35	0
	2.8%	686	0.46	0
	2.4%	718	0.39	0
	1.2%	728	0.37	0
	3.8%	1486	1.16	0
	3.1%	752	0.38	0
180	2.0%	758	0.35	0
	2.3%	766	0.37	0
	2.3%	792	0.38	0
	2.8%	806	0.47	0
	2.2%	792	0.37	0
	1.4%	812	0.49	0
	4.3%	1638	1.06	0
	4.1%	1568	0.82	0
	3.2%	794	0.40	0
	2.5%	790	0.40	0
190	2.3%	792	0.38	0
	2.2%	786	0.38	0
	2.2%	786	0.37	0
	2.3%	804	0.39	0
	2.4%	818	0.40	0
	2.3%	810	0.39	0
	2.5%	816	0.40	0
	2.3%	808	0.41	0
	2.3%	826	0.37	0
	2.3%	854	0.39	0
200	2.4%	842	0.40	0
	3.0%	872	0.51	0

2.7%	898	0.46	0
2.6%	928	0.44	0
2.8%	978	0.47	0
1.6%	1012	0.49	0
2.4%	1046	1.06	0
5.3%	3236	1.62	0
5.5%	2256	1.16	0
4.1%	1168	0.61	0
3.7%	1184	0.60	0
4.0%	1214	0.73	0
4.2%	1224	0.63	0
3.5%	1274	0.62	0
4.5%	1302	0.79	0
4.4%	1312	0.66	0
4.1%	1312	0.67	0
4.4%	1294	0.77	0
3.9%	1286	0.63	0
4.5%	1302	0.74	0
2.3%	1300	0.65	0
5.9%	2636	1.34	0
4.5%	1292	0.67	0
6.3%	1298	1.41	0
4.9%	1266	0.77	0
4.3%	1190	0.64	0
4.1%	1172	0.67	0
3.5%	1140	0.59	0
3.4%	1090	0.56	0
4.2%	1044	0.70	0
3.1%	1014	0.52	0
1.6%	980	0.53	0
4.4%	1888	1.46	0
4.9%	1810	0.98	0
1.5%	892	0.45	0
4.6%	1808	0.87	0
	2.8% 1.6% 2.4% 5.3% 5.5% 4.1% 3.7% 4.0% 4.2% 3.5% 4.4% 4.4% 4.1% 4.4% 3.9% 4.5% 2.3% 5.9% 4.5% 6.3% 4.9% 4.1% 3.5% 3.4% 4.1% 3.5% 3.1% 1.6% 4.4% 4.9% 1.5%	2.6% 928 2.8% 978 1.6% 1012 2.4% 1046 5.3% 3236 5.5% 2256 4.1% 1168 3.7% 1184 4.0% 1214 4.2% 1224 3.5% 1274 4.5% 1302 4.4% 1312 4.4% 1312 4.4% 1294 3.9% 1286 4.5% 1302 2.3% 1300 5.9% 2636 4.5% 1292 6.3% 1298 4.9% 1266 4.3% 1190 4.1% 1172 3.5% 1140 3.4% 1090 4.2% 1044 3.1% 1014 1.6% 980 4.4% 1888 4.9% 1888 4.9% 1888 4.9% 1888 4.9% 1888 4.9%	2.6% 928 0.44 2.8% 978 0.47 1.6% 1012 0.49 2.4% 1046 1.06 5.3% 3236 1.62 5.5% 2256 1.16 4.1% 1168 0.61 3.7% 1184 0.60 4.0% 1214 0.73 4.2% 1224 0.63 3.5% 1274 0.62 4.5% 1302 0.79 4.4% 1312 0.66 4.1% 1312 0.67 4.4% 1294 0.77 3.9% 1286 0.63 4.5% 1302 0.74 2.3% 1300 0.65 5.9% 2636 1.34 4.5% 1292 0.67 6.3% 1298 1.41 4.9% 1266 0.77 4.3% 1190 0.64 4.1% 1172 0.67 3.5% 1140 0.59 3.4% 1090 0.

			I	
	3.4%	920	0.46	0
	2.9%	936	0.48	0
	2.9%	936	0.49	0
	3.0%	954	0.50	0
240	3.0%	950	0.48	0
	2.9%	946	0.48	0
	2.6%	940	0.42	0
	2.9%	940	0.48	0
	2.7%	938	0.44	0
	2.6%	936	0.44	0
	2.9%	916	0.47	0
	2.7%	928	0.44	0
	2.6%	924	0.46	0
	2.6%	912	0.41	0
250	2.8%	904	0.47	0
	2.3%	908	0.40	0
	2.9%	912	0.47	0
	2.5%	902	0.41	0
	2.6%	906	0.47	0
	1.7%	914	0.47	0
	3.5%	914	0.44	0
	2.8%	924	0.47	0
	1.5%	928	0.48	0
	4.0%	1846	1.33	0
260	6.0%	1862	1.15	0
	3.7%	924	0.49	0
	2.8%	896	0.47	0
	2.9%	894	0.47	0
	3.0%	896	0.51	0
	2.5%	886	0.42	0
	2.5%	876	0.40	0
	2.3%	856	0.41	0
	2.3%	844	0.38	0
	2.4%	826	0.41	0

	1	ı	1
2.7%	814	0.43	0
2.3%	824	0.39	0
2.6%	836	0.43	0
2.4%	832	0.41	0
2.6%	852	0.42	0
1.3%	864	0.46	0
4.5%	1738	0.84	0
2.6%	866	0.40	0
3.7%	858	0.68	0
3.9%	862	0.48	0
2.4%	842	0.40	0
2.4%	830	0.40	0
2.6%	830	0.42	0
2.4%	844	0.40	0
2.7%	864	0.44	0
2.8%	884	0.47	0
1.5%	888	0.45	0
3.2%	874	0.94	0
5.4%	1764	1.04	0
3.6%	884	0.46	0
2.5%	874	0.42	0
2.6%	848	0.45	0
1.5%	842	0.40	0
2.9%	852	0.46	0
3.3%	868	0.49	0
2.6%	864	0.39	0
1.8%	870	0.41	0
0.1%	858	0.46	0
	2.3% 2.6% 2.4% 2.6% 1.3% 4.5% 2.6% 3.7% 3.9% 2.4% 2.4% 2.4% 2.4% 2.5% 2.8% 1.5% 3.2% 5.4% 3.6% 2.5% 2.6% 1.5% 2.9% 3.3% 2.6% 1.8%	2.3% 824 2.6% 836 2.4% 832 2.6% 852 1.3% 864 4.5% 1738 2.6% 866 3.7% 858 3.9% 862 2.4% 842 2.4% 830 2.6% 830 2.4% 844 2.7% 864 2.8% 884 1.5% 888 3.2% 874 5.4% 1764 3.6% 848 1.5% 842 2.9% 852 3.3% 868 2.6% 864 1.8% 870	2.3% 824 0.39 2.6% 836 0.43 2.4% 832 0.41 2.6% 852 0.42 1.3% 864 0.46 4.5% 1738 0.84 2.6% 866 0.40 3.7% 858 0.68 3.9% 862 0.48 2.4% 842 0.40 2.4% 830 0.42 2.4% 844 0.40 2.7% 864 0.44 2.8% 884 0.47 1.5% 888 0.45 3.2% 874 0.94 5.4% 1764 1.04 3.6% 884 0.46 2.5% 874 0.42 2.6% 848 0.45 1.5% 842 0.46 3.3% 868 0.49 2.6% 864 0.39 1.8% 870 0.41

Tabela 32: 500 Objetos Pre-Runtime Circle OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

		ı		,
1.0				
10				
30				
	0.5%	4	0.09	0
	0.570	4	0.09	U
40				
40				
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%			
50				

		0	0.00		
	0.007	8	0.00		
	0.0%	8			
60					
				0	
				0	
	0.0%	8	0.00		
		2	0.00	0	
	0.0%		0.00	0	
	0.0%	2	0.00	0	
		2		0	
70		2			
	0.0%		0.00		
			0.00	0	
		6	0.00	0	
		2			
	0.0%				
	0.0%				
			0.00	0	
		6	0.00		
80		2			
	0.0%				
			0.00		
		4			
	0.0%			0	
<u> </u>	0.070				

	0.0%		0.00	0
90		6		
			0.00	
	0.0%	2		0
			0.00	
	0.0%			0
	0.0%			
		6	0.00	
100				
				0
	0.0%			0
	0.0%	4	0.00	
		2	0.00	0
	0.0%	2		0
	0.0%		0.00	
		2		0
	0.0%		0.00	0
	0.0%	4	0.00	0
110	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.0%	6	0.00	0
		2	0.00	0
	0.0%	2	0.00	
		2		0
		4	0.00	
			0.00	
	0.0%	2	0.00	
				0
120	0.0%			
				0

	0.0%	2		
	0.0%	-	0.00	0
	0.0%	6		0
	0.0%		0.00	0
	0.0%	4	0.00	0
	0.070	2	0.00	0
		2	0.00	0
			0.00	
120		2		0
130			0.00	0
			0.00	
		2	0.00	
	0.0%			
	0.0%			
				0
			0.00	
				0
140		2		
	0.0%		0.00	
	0.0%			
	0.0%	2		0
		2	0.00	0
	0.0%	2	0.00	
	0.070		0.00	0
	0.00%			U
150	0.0%	2	0.00	0
150	0.00	2	0.00	0
	0.0%		0.00	
		2		0
			0.00	0
	0.0%	2		
	0.0%	2	0.00	

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

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

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

260				
200				
	0.0%			0
				O .
	0.0%			
270		2		
			0.00	
280				
				0
	0.0%			0
	0.070			
		2		
			0.00	
			0.00	
290				
290				

Tabela 33: 500 Objetos Pre-Runtime Circle OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.6%	4		
	0.0%	4		
		4		
			0.00	0
				0
	0.0%			
70	0.0%	8		

		0.00	
		0.00	0
		0.00	0
0.0%	2	0.00	
0.0%	2		0
0.0%	4		0
	4		0
	10		
		+	
		0.00	
0.0%		0.00	0
	2		
	2		
0.0%		0.00	0
	0.0%	0.0% 2 0.0% 4 10 10 0.0% 2 2 2 2 2	0.00 0.0% 0.0% 2 0.0% 4 10 10 0.00 0.00 0.00 0.00 0.00 0.00 0

	0.0%		0.00	0
	0.0%		0.00	0
		4		
	0.0%	4	0.00	0
	0.0%	4	0.00	
110		2	0.00	
		2		
				0
	0.0%			0
	0.0%		0.00	0
120	0.0%	4	0.00	0
120	0.070		0.00	
	0.0%	4	0.00	0
	0.0%	-	0.00	0
	0.0%		0.00	
				0
	0.0%	2	0.00	
	0.0%	2		0
130	0.0%			
	0.0%			
		2	0.00	0
		2	0.00	0
		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%			

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

		2	0.00		
	0.0%				
				0	
			0.00		
	0.0%		0.00		
180					
	0.0%	2	0.00		
	0.0%	2	0.00	0	
	0.0%			0	
		2			
190					
			0.00		
	0.0%		0.00	0	
	0.070			0	
200					
200					
			0.00		
	0.0%	2	0.00		
				0	
	0.0%		0.00	0	
	0.0%		0.00		
		2	0.00		
		2		0	

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

260	0.0%	2		
260	0.0%	2		
	0.0%	2		
	0.0%	2		
	0.0%	2		
	0.0%			
			0.00	
			0.00	
		2		
270	0.0%	2		0
	0.0%			
280		2		0
200	0.0%		0.00	
	0.070	2	0.00	0
	0.0%			
	0.0%		0.00	
290				

	2		0
	2		
0.0%		0.00	
		0.00	
			0
	2		

Tabela 34: 500 Objetos Pre-Runtime Circle OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.6%	4	0.00	0
40	0.0%	4	0.00	0
	0.0%	4	0.00	0

	0.1%	12	0.00	0
	0.1%	4	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.1%	12	0.01	0
	0.0%	10	0.00	0
	0.1%	12	0.01	0
50	0.1%	12	0.00	0
	0.1%	12	0.00	0
	0.0%	12		0
	0.0%	12	0.07	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.1%	12	0.01	0
	0.1%		0.01	0
	0.0%	20	0.01	0
	0.1%	16	0.00	0
60	0.1%	24	0.01	0
	0.1%	26	0.01	0
	0.0%	20	0.01	0
	0.1%	28	0.01	0
	0.0%	28	0.01	0
	0.0%	28	0.01	
	0.0%	28	0.01	0
		34	0.01	0
	0.1%	34	0.01	0
	0.0%	30	0.01	0
70	0.0%	44	0.01	0
	0.1%	30	0.01	0
	0.0%	44	0.01	0
	0.0%	44	0.00	0
	0.1%	24	0.01	0
	0.0%	44	0.02	0
1	-1	1	1	1

	0.0%	24	0.01	0
	0.0%	44	0.01	0
	0.1%	24	0.02	0
	0.1%	24	0.02	0
80	0.1%	24	0.02	0
	0.1%	62	0.01	0
	0.0%	30	0.02	0
	0.3%	62	0.04	0
	0.0%	62	0.01	0
	0.0%	32	0.01	0
	0.0%	32	0.02	0
	0.0%	62	0.01	0
	0.0%	40	0.02	0
	0.0%	62	0.02	0
90	0.1%	40	0.02	0
	0.2%	44	0.02	0
	0.1%	64	0.02	0
	0.1%	38	0.03	0
	0.1%	44	0.02	0
	0.1%	64	0.02	0
	0.1%	44	0.02	0
	0.1%	64	0.02	0
	0.2%	44	0.02	0
	0.1%	44	0.02	0
100	0.2%	48	0.02	0
	0.2%	42	0.02	0
	0.1%	42	0.02	0
	0.1%	40	0.02	0
	0.1%	64	0.01	0
	0.1%	64	0.03	0
	0.1%	42	0.03	0
	0.1%	58	0.03	0
	0.1%	48	0.02	0
	0.1%	54	0.02	0
	0.170	"	0.02	0

110	0.3%	56	0.08	0
	0.2%	62	0.02	0
	0.3%	62	0.03	0
	0.1%	64	0.03	0
	0.1%	70	0.03	0
	0.1%	68	0.02	0
	0.1%	66	0.02	0
	0.0%	60	0.02	0
	0.1%	62	0.05	0
	0.2%	58	0.05	0
120	0.1%	118	0.03	0
	0.3%	58	0.02	0
	0.2%	64	0.03	0
	0.1%	64	0.02	0
	0.1%	70	0.03	0
	0.1%	68	0.03	0
	0.1%	70	0.03	0
	0.2%	70	0.03	0
	0.2%	70	0.03	0
	0.2%	70	0.03	0
130	0.1%	70	0.03	0
	0.1%	62	0.03	0
	0.2%	72	0.03	0
	0.1%	72	0.03	0
	0.2%	72	0.03	0
	0.1%	70	0.03	0
	0.4%	68	0.03	0
	0.2%	68	0.06	0
	0.2%	68	0.03	0
	0.1%	70	0.03	0
140	0.1%	62	0.03	0
	0.1%	66	0.04	0
	0.1%	64	0.02	0
	0.1%	62	0.03	0
	0.1%	62	0.03	0

			1	
	0.1%	60	0.03	0
	0.1%	60	0.02	0
	0.2%	62	0.02	0
	0.1%	60	0.04	0
	0.2%	62	0.02	0
	0.1%	60	0.03	0
150	0.1%	62	0.03	0
	0.1%	66	0.03	0
	0.2%	62	0.03	0
	0.2%	64	0.03	0
	0.1%	64	0.04	0
	0.1%	64	0.03	0
	0.2%	66	0.03	0
	0.1%	60	0.03	0
	0.1%	62	0.03	0
	0.3%	64	0.03	0
160	0.5%	66	0.03	0
	0.4%	62	0.07	0
	0.2%	62	0.04	0
	0.1%	66	0.04	0
	0.2%	64	0.03	0
	0.1%	62	0.02	0
	0.1%	64	0.03	0
	0.1%	66	0.03	0
	0.2%	66	0.02	0
	0.2%	64	0.03	0
170	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.3%	66	0.03	0
	0.4%	66	0.03	0
	1.2%	64	0.10	0
	0.2%	64	0.16	0
	0.1%	64	0.03	0
	0.1%	68	0.03	0
	1		1	1

	0.00		0.00	
	0.2%	64	0.03	0
	0.3%	62	0.03	0
180	0.1%	64	0.03	0
	0.1%	62	0.03	0
	0.3%	122	0.03	0
	0.3%	62	0.11	0
	0.2%	62	0.14	0
	0.1%	62	0.03	0
	0.2%	64	0.03	0
	0.1%	62	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.03	0
190	0.3%	64	0.03	0
	0.3%	64	0.03	0
	0.2%	132	0.08	0
	0.2%	64	0.03	0
	0.2%	132	0.07	0
	0.2%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	68	0.03	0
	0.1%	64	0.06	0
	0.2%	64	0.03	0
200	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.2%	68	0.14	0
	0.1%	60	0.03	0
	0.2%	68	0.03	0
	0.2%	68	0.03	0
	0.1%	68	0.03	0
	0.1%	120	0.14	0
	0.1%	70	0.04	0
	0.2%	62	0.03	0
210	0.1%	68	0.02	0
	0.4%	64	0.03	0
			1	1

		1		
	0.3%	64	0.05	0
	0.2%	68	0.08	0
	0.2%	62	0.14	0
	0.2%	68	0.07	0
	0.1%	64	0.03	0
	0.2%	68	0.06	0
	0.1%	132	0.03	0
	0.2%	62	0.03	0
220	0.1%	64	0.03	0
	0.2%	64	0.03	0
	0.1%	64	0.06	0
	0.2%	64	0.03	0
	0.1%	62	0.03	0
	0.2%	68	0.03	0
	0.3%	62	0.02	0
	0.2%	62	0.03	0
	0.2%	62	0.06	0
	0.2%	60	0.03	0
230	0.1%	64	0.06	0
	0.2%	64	0.03	0
	0.1%	62	0.02	0
	0.1%	60	0.03	0
	0.3%	60	0.03	0
	0.2%	120	0.03	0
	0.1%	120	0.02	0
	0.1%	132	0.07	0
	0.0%	60	0.06	0
	0.2%	120	0.03	0
240	0.3%	60	0.09	0
	0.1%	60	0.03	0
	0.2%	66	0.03	0
	0.1%	60	0.03	0
	0.1%	60	0.02	0
	0.1%	60	0.03	0
	1	1	1	1

	0.00		0.00	
	0.2%	60	0.02	0
	0.1%	62	0.02	0
	0.1%	60	0.03	0
	0.2%	120	0.03	0
250	0.1%	62	0.03	0
	0.1%	120	0.03	0
	0.1%	60	0.03	0
	0.1%	126	0.03	0
	0.2%	122	0.03	0
	0.2%	68	0.04	0
	0.1%	60	0.03	0
	0.1%	68	0.03	0
	0.2%	60	0.03	0
	0.2%	60	0.04	0
260	0.2%	58	0.05	0
	0.1%	58	0.07	0
	0.1%	58	0.03	0
	0.1%	60	0.03	0
	0.2%	62	0.03	0
	0.1%	62	0.04	0
	0.4%	132	0.03	0
	0.3%	66	0.03	0
	0.2%	132	0.04	0
	0.1%	66	0.03	0
270	0.2%	66	0.03	0
	0.2%	68	0.03	0
	0.2%	66	0.03	0
	0.2%	66	0.02	0
	0.2%	68	0.03	0
	0.2%	68	0.03	0
	0.1%	68	0.06	0
	0.1%	68	0.04	0
	0.2%	68	0.06	0
	0.1%	68	0.03	0
	[I	

0.2%	132	0.03	0
0.1%	132	0.02	0
0.3%	126	0.03	0
0.2%	126	0.03	0
0.3%	66	0.03	0
0.2%	66	0.03	0
0.1%	66	0.03	0
0.1%	64	0.03	0
0.2%	66	0.08	0
0.1%	66	0.08	0
0.2%	66	0.03	0
0.1%	66	0.03	0
0.1%	66	0.03	0
0.2%	66	0.02	0
0.4%	66	0.03	0
0.2%	66	0.03	0
0.2%	64	0.03	0
0.1%	64	0.03	0
	0.1% 0.3% 0.2% 0.3% 0.2% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.4% 0.2% 0.2%	0.1% 132 0.3% 126 0.2% 126 0.3% 66 0.2% 66 0.1% 64 0.2% 66 0.1% 66 0.1% 66 0.1% 66 0.1% 66 0.1% 66 0.2% 66 0.4% 66 0.2% 66 0.2% 66 0.2% 64	0.1% 132 0.02 0.3% 126 0.03 0.2% 126 0.03 0.3% 66 0.03 0.1% 66 0.03 0.1% 64 0.03 0.1% 66 0.08 0.1% 66 0.08 0.1% 66 0.03 0.1% 66 0.03 0.1% 66 0.03 0.1% 66 0.03 0.2% 66 0.03 0.2% 66 0.03 0.2% 66 0.03 0.2% 66 0.03 0.2% 64 0.03

Tabela 35: 500 Objetos Pre-Runtime Circle Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	11.3%	3	6.11	426600
	7.3%	1	7.00	213300
	7.3%	1	2.79	71100
	28.6%	1	2.06	71100
	28.6%	1	2.41	71100
	26.1%	1	1.70	71100
	14.8%	1	1.70	71100
	10.6%	1	1.36	71100
10	8.4%	1	2.35	71100
	13.8%	1	1.38	71100

	8.9%	1	1.64	71100
	9.1%	1	1.49	71100
	14.9%	1	2.58	71100
	8.9%	1	1.37	71100
	50.6%	1	1.41	71100
	50.6%	1	1.34	5000000
	8.3%	1	2.31	71100
	8.2%	1	1.41	5000000
20	12.7%	1	8.32	71100
	12.7%	1	1.39	71100
	9.3%	1	8.32	71100
	8.5%	1	1.19	71100
	7.4%	1	1.90	92500
	10.8%	1	1.90	71100
	7.5%	1	1.91	71100
	7.3%	1	1.44	71100
	7.3%	1	1.19	71100
	11.7%	1	1.91	71100
30	8.0%	1	1.26	71100
	16.0%	2	1.22	142200
	35.9%	1	1.93	71100
	8.0%	1	1.27	71100
	9.2%	1	3.78	71100
	8.0%	1	2.04	71100
	12.1%	1	1.40	71100
	9.5%	1	1.38	71100
	12.8%	1	2.01	71100
	9.2%	1	1.56	71300
40	9.4%	1	2.06	92500
	20.5%	1	1.53	92500
	11.0%	1	6.26	71100
	9.1%	1	6.26	170600
	20.5%	1	2.06	71100
	7.7%	1	12.97	71100
	1.1 /0	1	12.71	/1100

	10.7%	1	1.52	71100
	8.0%	1	12.97	71100
	7.3%	1	1.44	71100
	10.7%	1	1.44	71300
50	7.3%	1	1.90	71100
	11.5%	1	1.41	71100
	8.1%	1	1.45	71100
	12.8%	1	1.22	71100
	7.6%	1	1.28	71100
	12.8%	1	5.70	71100
	10.9%	1	1.29	71100
	7.7%	1	5.70	170600
	9.0%	1	1.30	71100
	15.4%	1	1.30	170600
60	12.1%	1	1.89	71100
	8.0%	1	1.91	71300
	7.6%	1	1.26	
		1	1.91	376800
	27.0%		1.35	71100
	12.4%	2	2.06	71100
	9.7%	1	1.41	71100
	8.0%	1	1.27	71100
	8.8%	1	1.41	92500
	10.5%	1	1.26	71100
70	14.2%	1		92500
	15.4%	1	6.43	92500
	9.2%	1	1.93	99500
	11.6%	1	2.25	99500
	15.4%	1	6.26	99500
	9.3%	1	1.39	99500
	13.6%	1	2.26	376800
	15.7%	1	1.44	113800
	10.4%	1	1.48	113800
	12.8%	1	6.26	376800

80	13.4%	1	1.69	128000
	9.6%	1	2.36	128000
	10.7%	1	1.44	128000
	12.8%	1	1.47	700000
	11.1%	1	1.93	170600
	8.4%	1	2.39	142200
	13.1%	1	1.61	156400
	9.0%	1	1.93	156400
	10.1%	1	1.66	170600
	15.7%	1	1.67	184800
90	11.8%	1	1.62	270200
	10.3%	1	1.41	284400
	9.1%	1	2.74	700000
	15.7%	1	2.18	284400
	8.0%	1	1.44	284400
	15.4%	1	2.21	284400
	15.4%	1	1.41	700000
	21.4%	1	1.67	305700
	14.7%	1	2.09	376800
	15.5%	1	1.63	313000
100	9.9%	1	2.36	305700
	15.4%	1	2.74	334100
	12.5%	1	3.51	355500
	12.8%	1	2.06	1100000
	14.4%	1	2.70	362600
	11.7%	1	2.74	376800
	15.5%	1	1.93	405200
	12.4%	1	2.64	412300
	14.9%	1	2.08	440800
	15.7%	1	2.03	433700
110	16.8%	1	2.51	497700
	15.5%	1	2.95	497700
	12.2%	1	1.93	1100000
	17.8%	1	1.91	500000

	12.2%	1	3.42	500000
	15.7%	1	2.43	700000
	12.8%	1	2.16	600000
	16.5%	1	2.95	600000
	12.6%	1	2.89	1100000
	23.4%	1	2.74	700000
120	21.8%	1	2.10	700000
	12.9%	1	2.66	700000
	16.4%	1	2.95	600000
	12.6%	1	2.05	1200000
	16.5%	1	2.10	600000
	15.5%	1	5.16	700000
	13.1%	1	2.74	700000
	9.5%	1	2.01	800000
	19.0%	1	2.78	1200000
	41.4%	1	2.62	1100000
130	21.2%	2	2.07	1600000
	16.5%	1	2.10	900000
	15.5%	1	2.66	900000
	19.7%	1	5.75	900000
	19.0%	1	2.62	1000000
	17.2%	1	2.95	1200000
	25.3%	1	2.30	1000000
	16.5%	1	2.33	1100000
	17.2%	1	3.05	1100000
	20.7%	1	2.68	1100000
140	25.3%	1	3.62	1100000
	17.8%	1	2.62	1000000
	19.4%	1	2.90	1000000
	16.4%	1	2.95	2800000
	19.8%	1	3.65	1000000
	25.3%	1	2.83	1200000
	16.5%	1	2.92	1000000
	15.8%	1	4.78	1000000

	18.7%	1	2.62	2800000
	17.5%	1	2.60	1000000
150	15.6%	1	4.78	1000000
	19.1%	1	2.68	1100000
	25.3%	1	2.66	1100000
	16.1%	1	2.60	1200000
	18.9%	1	3.31	2800000
	19.8%	1	2.76	1100000
	28.2%	1	2.62	1200000
	9.9%	1	4.78	1200000
	28.2%	1	3.28	1200000
	23.6%	1	2.69	2800000
160	43.5%	1	2.92	1300000
	34.9%	1	3.43	1300000
	22.4%	1	2.97	1200000
	25.3%	1	4.78	1200000
	21.7%	1	5.67	2500000
	47.0%	1	6.25	2500000
	28.2%	2	3.60	1200000
	54.1%	1	6.52	1300000
	28.2%	1	6.52	1300000
	25.6%	1	4.43	1300000
170	25.3%	1	3.84	2800000
	23.6%	1	17.88	1500000
	27.5%	1	7.10	1600000
	27.5%	1	4.78	2500000
	39.1%	1	4.14	1700000
	24.6%	1	6.52	1800000
	39.1%	2	4.98	2500000
	26.1%	1	3.75	1800000
	30.9%	1	6.52	1900000
	27.1%	2	4.70	2100000
180	28.2%	1	4.09	2100000
	37.4%	1	4.44	6200000

	46.4%	1	4.44	2300000
	33.1%	1	5.63	2400000
	39.1%	1	4.55	6200000
	36.8%	2	8.51	2500000
	39.1%	2	5.63	2700000
	33.2%	1	6.26	2700000
	37.0%	2	4.79	2800000
	33.0%	1	6.52	6200000
190	15.5%	1	5.43	2800000
	56.9%	1	5.98	6200000
	47.5%	1	5.28	2800000
	36.6%	1	5.63	3000000
	34.3%	1	4.68	3100000
	37.6%	1	17.33	3100000
	34.3%	1	5.63	3100000
	36.2%	2	5.89	3200000
	39.1%	2	6.29	3200000
	34.3%	1	6.13	3200000
200	63.8%	1	5.62	6300000
	57.5%	1	6.55	6200000
	34.3%	1	22.15	3100000
	45.4%	1	12.67	3100000
	34.1%	1	5.80	3100000
	37.8%	1	5.63	3100000
	32.6%	1	5.49	3100000
	34.3%	1	5.40	3100000
	47.8%	1	5.68	3200000
	35.7%	1	5.41	3200000
210	31.8%	1	5.90	3200000
-	34.9%	1	5.59	3300000
	34.9%	1	5.75	3300000
	34.3%	1	6.25	3300000
	37.2%	1	6.54	3500000
	50.6%	1	6.44	5000000
	30.070	1	0.44	300000

	39.2%	1	8.32	3800000
	50.6%	1	8.32	5000000
		1	8.32	3900000
	50.6%			
220	37.7%	1	22.79	5000000
220	45.9%	1	14.86	4000000
	39.1%	2	13.63	7400000
	45.9%	1	7.98	12500000
	67.0%	1	13.63	8800000
	74.4%	1	5.80	4600000
	70.1%	1	5.80	7400000
	57.9%	1	5.80	4700000
	49.5%	1	8.33	4700000
	46.8%	1	8.86	4800000
	55.2%	1	8.43	4900000
230	49.4%	1	8.26	5000000
	37.8%	1	8.78	5000000
	61.9%	1	8.32	7400000
	50.6%	1	13.63	5000000
	37.8%	1	20.67	5000000
	47.8%	2	8.26	5000000
	37.8%	1	9.12	5000000
	45.9%	1	8.10	4900000
	56.6%	1	7.70	4700000
	51.2%	1	7.82	4500000
240	52.3%	1	13.63	7400000
	73.4%	1	6.19	4300000
	45.9%	1	7.65	7400000
	57.7%	1	13.63	4099999.999999995
	45.9%	1	6.19	7400000
	54.4%	1	7.21	7400000
	47.8%	1	13.63	3900000
	45.9%	2	13.63	7400000
	45.9%	2	6.19	7100000
	46.8%	1	13.63	3500000

250	36.9%	1	20.79	7100000
	36.9%	1	12.78	3500000
	45.9%	1	6.11	3600000
	43.3%	1	6.08	3600000
	36.9%	1	6.11	3500000
	35.4%	1	6.07	3500000
	35.4%	1	6.11	3500000
	67.8%	1	6.17	3500000
	67.9%	1	6.19	3500000
	35.4%	1	6.14	3500000
260	37.0%	1	6.19	3400000
	21.1%	1	6.11	3400000
	40.6%	1	6.19	3500000
	38.2%	1	6.19	6900000
	36.4%	1	6.19	3500000
	36.9%	1	6.17	3400000
	38.0%	1	5.89	3300000
	36.9%	1	6.09	3300000
	21.1%	1	6.11	3300000
	36.7%	1	6.14	3200000
270	36.9%	1	6.01	3100000
	36.9%	1	6.13	3100000
	35.7%	1	6.11	3200000
	36.9%	1	6.45	3200000
	37.0%	1	5.89	3200000
	35.4%	2	18.75	6400000
	35.4%	1	6.39	3200000
	35.4%	2	6.11	3200000
	35.4%	1	6.11	3100000
	21.1%	1	6.70	3100000
280	35.4%	1	6.11	3200000
	36.1%	1	6.11	3200000
	35.7%	1	13.22	3300000
	37.3%	1	5.89	3300000

	35.7%	1	5.80	6500000
	21.1%	1	6.23	3300000
	21.1%	1	6.11	3300000
	61.9%	1	5.89	3200000
	21.1%	1	5.89	3200000
	67.2%	1	6.47	3200000
290	35.7%	1	5.89	3200000
	21.1%	1	5.89	3200000
	54.2%	1	5.89	3200000
	39.2%	1	6.15	3200000
	47.8%	1	6.04	
	21.1%	1	5.89	
	37.8%	1	5.79	
	35.7%	1	5.69	

A.1.6 MIL OBJETOS

Tabela 36: 1000 Objetos Pre-Runtime Circle OnCollisionEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				

	0.0%	6	0.00	0
	0.0%	0	0.00	U
	0.00	4	0.00	0
	0.0%	4	0.00	0
	0.0%			
			0.00	
70		4	0.00	0
	0.0%	4	0.00	0
	0.0%	4		
			0.01	0
	0.0%	4		0
			0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
80	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0
	0.2%	8	0.04	0
	0.0%	6	0.00	0
	0.0%	10	0.00	0
	0.0%	6	0.00	0
	0.0%			
90				
		4	0.01	0
	0.0%	8	0.00	0
	0.0%	4	0.01	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
	0.0%	0	0.00	U

	0.0%	8	0.00	0
	0.0%	6	0.00	0
	0.0%	8	0.00	0
100	0.0%	12	0.00	0
100	0.0%	12	0.00	0
	0.0%			
		6	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	6	0.00	0
	0.0%	20	0.00	0
	0.0%	14	0.00	0
	0.0%	10	0.00	0
110	0.0%	14	0.00	0
	0.0%	10	0.00	0
	0.0%	18	0.00	0
	0.0%	22	0.01	0
	0.0%	20	0.00	0
	0.0%	14	0.00	0
	0.0%	8	0.00	0
	0.0%	26	0.01	0
	0.0%	26	0.01	0
	0.2%	32	0.04	0
120	0.0%	20	0.00	0
	0.0%	22	0.00	0
	0.0%	16	0.00	0
	0.0%	28	0.00	0
	0.0%	14	0.00	0
	0.0%	16	0.00	0
	0.0%	28	0.01	0
	0.0%	12	0.00	0
	0.0%	18	0.00	0
	0.0%	12	0.00	0
130	0.0%	10	0.00	0
130	0.0%	10	0.00	U

	0.0%	26	0.01	0
	0.0%	16	0.00	0
	0.1%	30	0.01	0
	0.0%	14	0.00	0
	0.0%	14	0.00	0
	0.0%	12	0.00	0
	0.0%	14	0.00	0
	0.0%	20	0.00	0
	0.0%	14	0.00	0
140	0.0%	10	0.00	0
	0.0%	30	0.01	0
	0.0%	20	0.01	0
	0.1%	36	0.01	0
	0.0%	14	0.00	0
	0.0%	28	0.01	0
	0.1%	26	0.01	0
	0.0%	38	0.01	0
	0.1%	32	0.01	0
	0.0%	12	0.00	0
150	0.0%	22	0.01	0
	0.0%	28	0.02	0
	0.0%	38	0.02	0
	0.1%	58	0.01	0
	0.0%	28	0.03	0
	0.2%	34	0.02	0
	0.0%	18	0.01	0
	0.0%	28	0.01	0
	0.2%	58	0.03	0
	0.2%	54	0.02	0
160	0.1%	46	0.02	0
	0.0%	40	0.01	0
	0.1%	30	0.01	0
	0.0%	32	0.01	0
	0.2%	34	0.03	0
<u> </u>			1	

	1	1	T	
	0.1%	44	0.02	0
	0.2%	48	0.02	0
	0.2%	50	0.02	0
	0.1%	54	0.02	0
	0.0%	46	0.07	0
170	0.3%	124	0.04	0
	0.1%	52	0.03	0
	0.2%	52	0.03	0
	0.2%	60	0.04	0
	0.1%	54	0.03	0
	0.4%	136	0.08	0
	0.1%	76	0.04	0
	0.1%	114	0.05	0
	0.0%	42	0.02	0
	0.2%	140	0.07	0
180	0.3%	126	0.07	0
	0.1%	52	0.03	0
	0.1%	126	0.06	0
	0.2%	62	0.03	0
	0.2%	54	0.02	0
	0.0%	36	0.04	0
	0.2%	96	0.06	0
	0.2%	102	0.06	0
	0.1%	106	0.05	0
	0.1%	100	0.04	0
190	0.3%	62	0.04	0
	0.2%	56	0.03	0
	0.1%	64	0.04	0
	0.2%	104	0.06	0
	0.2%	132	0.06	0
	0.2%	136	0.08	0
	0.2%	150	0.08	0
	0.1%	200	0.12	0
	0.3%	578	0.13	0
	1		1	

200	0.2% 0.3% 0.2%	236 258	0.15	0
200		258	1038	
	0.2%			0
		242	0.11	0
	0.2%	276	0.14	0
	0.2%	386	0.20	0
	0.2%	362	0.20	0
	0.2%	434	0.23	0
	0.2%	578	0.29	0
	0.2%	608	0.32	0
	0.2%	680	0.38	0
	0.1%	600	0.31	0
210	0.2%	680	0.35	0
	0.2%	648	0.33	0
	0.2%	774	0.44	0
	0.3%	834	0.53	0
	0.3%	958	0.53	0
	0.2%	912	0.47	0
	0.2%	880	0.48	0
	0.2%	908	0.53	0
	0.3%	890	0.52	0
	0.2%	802	0.47	0
220	0.2%	998	0.55	0
	0.3%	984	0.52	0
	0.2%	834	0.44	0
	0.2%	804	0.40	0
	0.2%	774	0.47	0
	0.2%	838	0.56	0
	0.2%	786	0.39	0
	0.2%	726	0.44	0
	0.3%	588	0.47	0
	0.3%	764	0.42	0
230	0.2%	770	0.32	0
	0.2%	634	0.33	0
	0.3%	716	0.44	0

	0.207	1		
	0.2%	672	0.34	0
	0.3%	656	0.38	0
	0.2%	586	0.32	0
	0.2%	626	0.38	0
	0.3%	588	0.41	0
	0.1%	526	0.29	0
	0.2%	320	0.32	0
240	0.2%	556	0.31	0
	0.2%	548	0.18	0
	0.1%	506	0.27	0
	0.2%	320	0.21	0
	0.2%	434	0.28	0
	0.1%	458	0.18	0
	0.1%	364	0.17	0
	0.1%	348	0.18	0
	0.1%	384	0.18	0
	0.1%	332	0.22	0
250	0.1%	310	0.19	0
	0.1%	330	0.17	0
	0.1%	284	0.17	0
	0.1%	320	0.14	0
	0.1%	286	0.16	0
	0.1%	360	0.16	0
	0.1%	252	0.18	0
	0.1%	150	0.13	0
	0.1%	278	0.16	0
	0.1%	260	0.06	0
260	0.2%	226	0.12	0
	0.1%	284	0.14	0
	0.1%	262	0.14	0
	0.1%	236	0.12	0
	0.1%	150	0.10	0
	0.1%	150	0.13	0
	0.1%	206	0.06	0

	0.1%	198	0.06	0
	0.1%	166	0.11	0
	0.1%	150	0.08	0
270	0.1%	132	0.08	0
	0.0%	124	0.07	0
	0.1%	32	0.06	0
	0.1%	100	0.05	0
	0.1%	168	0.08	0
	0.1%	132	0.03	0
	0.1%	126	0.07	0
	0.2%	72	0.03	0
	0.0%	88	0.05	0
	0.0%	122	0.05	0
280	0.0%	32	0.06	0
	0.1%	64	0.07	0
	0.1%	32	0.03	0
	0.1%	104	0.04	0
	0.0%	82	0.03	0
	0.1%	66	0.05	0
	0.1%	32	0.02	0
	0.0%	46	0.02	0
	0.0%	46	0.03	0
	0.0%	52	0.07	0
290	0.1%	108	0.03	0
	0.0%	70	0.03	0
	0.0%	42	0.02	0
	0.1%	74	0.04	0
	0.0%	74	0.04	0
	0.1%	72	0.02	0
			1	1

Tabela 37: 1000 Objetos Pre-Runtime Circle OnCollisionExit2D

10				
60				
	1.0%		0.20	0
70	1.070		0.20	U
70				
		2		
	0.00	2		
	0.0%			0
	0.0%			
	0.0%	2	0.00	
	0.0%	4	0.00	0
		4		0
		4		0
80	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%		0.00	

		2	0.00	0
	0.0%			0
		2		
	0.0%	4		0
90			0.00	
			0.00	
	0.0%	4	0.00	0
			0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	8	0.00	0
100	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
	0.0%	6	0.00	0
	0.0%	6	0.00	0
	0.0%	4	0.00	0
	0.0%	10	0.00	0
110	0.0%	4	0.00	0
	0.0%	12	0.00	0
	0.0%	24	0.00	0
	0.0%	10	0.01	0
	0.0%	22	0.00	0
	0.1%	16	0.00	0
	0.0%	4	0.01	0

	0.0%	24	0.01	0
	0.1%	4	0.00	0
	0.1 %	10	0.00	0
120				
120	0.0%	4	0.00	0
	0.1%	16	0.00	0
	0.0%	10	0.00	0
	0.0%	12	0.00	0
	0.0%	6	0.00	0
	0.0%	14	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.00	0
	0.0%	12	0.00	0
	0.0%	10	0.00	0
130	0.0%	20	0.00	0
	0.0%	26	0.01	0
	0.0%	16	0.01	0
	0.0%	10	0.00	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.0%	20	0.00	0
	0.0%	24	0.01	0
	0.0%	22	0.01	0
	0.1%	24	0.00	0
140	0.0%	24	0.01	0
	0.0%	10	0.01	0
	0.0%	26	0.01	0
	0.0%	24	0.01	0
	0.0%	22	0.01	0
	0.0%	20	0.01	0
	0.0%	22	0.00	0
	0.0%	20	0.01	0
	0.0%	24	0.02	0
	0.0%	30	0.00	0
150	0.0%	18	0.00	0
130	0.070	10	0.00	

0.0% 44 0.01 0 0.0% 28 0.01 0 0.0% 16 0.01 0 0.0% 14 0.00 0 0.0% 24 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 0.0% 24 0.01 0 0.0% 24 0.01 0 0.1% 42 0.00 0 0.1% 42 0.00 0 0.1% 42 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.0% 40 0.04 0 0.0% 86 0.01 0		0.00		0.01	
0.0% 28 0.01 0 0.0% 16 0.01 0 0.0% 14 0.00 0 0.0% 24 0.01 0 0.1% 22 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 42 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.02 0 0.1% 38 0.02 0 0.0% 40 0.04 0 0.0% 86 0.01		0.0%	22	0.01	0
0.0% 16 0.01 0 0.0% 14 0.00 0 0.0% 24 0.01 0 0.1% 22 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.02 0 0.0% 40 0.04 0 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 38 0.01			44		0
0.0% 14 0.00 0 0.0% 24 0.01 0 0.1% 22 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.02 0 0.0% 40 0.04 0 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 48 0.01 0 0.0% 48 0.01		0.0%	28	0.01	0
0.0% 24 0.01 0 0.1% 22 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.02 0 0.1% 38 0.02 0 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 48 0.04 0 0.0% 48 0.01 0 0.0% 48 0.01		0.0%	16	0.01	0
0.1% 22 0.01 0 0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.0% 38 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 48 0.01 0 0.0% 48 0.01 0 0.1% 102 <td< th=""><th></th><th>0.0%</th><th>14</th><th>0.00</th><th>0</th></td<>		0.0%	14	0.00	0
0.0% 24 0.02 0 0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 36 0.01 0 0.1% 38 0.02 0 0.1% 38 0.02 0 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 48 0.01 0 0.0% 48 0.01 0 0.1% 102 0.05 <td< th=""><th></th><th>0.0%</th><th>24</th><th>0.01</th><th>0</th></td<>		0.0%	24	0.01	0
0.0% 24 0.01 0 160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.0% 48 0.01 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 38 <td< th=""><th></th><th>0.1%</th><th>22</th><th>0.01</th><th>0</th></td<>		0.1%	22	0.01	0
160 0.1% 44 0.01 0 0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 102 0.05 0 0.1% 38 0.01 0 0.1% 38 0.01 0 0.1% 38 0.01 0		0.0%	24	0.02	0
0.1% 42 0.00 0 0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 48 0.04 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 0.1% 100 0.04 0 0.1% 100 0.04 0 0.0% 116 0.03 0 0.0% <		0.0%	24	0.01	0
0.1% 22 0.00 0 0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 102 0.05 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114	160	0.1%	44	0.01	0
0.0% 76 0.01 0 0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 34 0.01 0 0.0% 34 0.01 0 0.0% 84 0.04 0 0.0% 48 0.04 0 0.0% 48 0.01 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.0% 114 0.05 0 0.0% 114 0.05 0 0.0% 10 0.03 0 <th></th> <th>0.1%</th> <th>42</th> <th>0.00</th> <th>0</th>		0.1%	42	0.00	0
0.0% 20 0.01 0 0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 0.1% 100 0.04 0 0.1% 100 0.04 0 0.0% 116 0.03 0 0.0% 114 0.05 0 0.0% 114 0.05		0.1%	22	0.00	0
0.1% 26 0.01 0 0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	76	0.01	0
0.0% 36 0.01 0 0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	20	0.01	0
0.0% 52 0.02 0 0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.1% 102 0.05 0 0.1% 102 0.05 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	26	0.01	0
0.1% 38 0.02 0 0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	36	0.01	0
0.0% 110 0.01 0 170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	52	0.02	0
170 0.0% 40 0.04 0 0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	38	0.02	0
0.0% 86 0.01 0 0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	110	0.01	0
0.0% 34 0.01 0 0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0	170	0.0%	40	0.04	0
0.1% 38 0.01 0 0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	86	0.01	0
0.0% 84 0.04 0 0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	34	0.01	0
0.2% 70 0.05 0 0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	38	0.01	0
0.0% 48 0.01 0 0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	84	0.04	0
0.1% 102 0.05 0 0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.2%	70	0.05	0
0.1% 50 0.04 0 0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.0%	48	0.01	0
0.1% 38 0.01 0 180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	102	0.05	0
180 0.1% 100 0.04 0 0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	50	0.04	0
0.2% 116 0.03 0 0.0% 114 0.05 0 0.1% 100 0.03 0		0.1%	38	0.01	0
0.0% 114 0.05 0 0.1% 100 0.03 0	180	0.1%	100	0.04	0
0.1% 100 0.03 0		0.2%	116	0.03	0
		0.0%	114	0.05	0
		0.1%	100	0.03	0
0.1% 34 0.05 0		0.1%	34	0.05	0

	0.0%	38	0.03	0
	0.1%	174	0.02	0
	0.1%	60	0.05	0
	0.1%	174	0.06	0
	0.1%	100	0.05	0
190	0.2%	92	0.01	0
	0.0%	150	0.03	0
	0.1%	106	0.03	0
	0.1%	166	0.03	0
	0.1%	178	0.14	0
	0.1%	174	0.05	0
	0.1%	320	0.14	0
	0.1%	294	0.07	0
	0.2%	424	0.05	0
	0.1%	514	0.10	0
200	0.1%	476	0.11	0
	0.1%	490	0.09	0
	0.1%	976	0.11	0
	0.1%	976	0.14	0
	0.1%	606	0.15	0
	0.1%	726	0.21	0
	0.2%	690	0.26	0
	0.2%	682	0.25	0
	0.2%	680	0.26	0
	0.2%	654	0.31	0
210	0.2%	778	0.38	0
	0.2%	976	0.43	0
	0.2%	1050	0.36	0
	0.2%	832	0.43	0
	0.2%	916	0.36	0
	0.1%	862	0.34	0
	0.1%	740	0.36	0
	0.2%	950	0.38	0
	0.2%	694	0.50	0
			•	

0.20%	064	0.61	0
			0
			0
0.2%	848	0.48	0
0.2%	880	0.38	0
0.3%	744	0.48	0
0.2%	768	0.56	0
0.2%	780	0.60	0
0.2%	694	0.33	0
0.2%	582	0.42	0
0.2%	568	0.49	0
0.2%	676	0.33	0
0.2%	590	0.40	0
0.3%	372	0.36	0
0.2%	586	0.45	0
0.2%	568	0.37	0
0.3%	574	0.32	0
0.2%	518	0.33	0
0.2%	454	0.40	0
0.3%	372	0.35	0
0.3%	510	0.31	0
0.2%	422	0.26	0
0.2%	412	0.18	0
0.1%	360	0.31	0
0.2%	372	0.26	0
0.2%	348	0.22	0
0.2%	340	0.28	0
0.2%	344	0.25	0
0.1%	294	0.18	0
0.2%	214	0.21	0
0.1%	296	0.18	0
0.1%	342	0.22	0
0.2%	352	0.20	0
0.2%	310	0.18	0
	0.3% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2	0.2% 928 0.2% 694 0.2% 848 0.2% 880 0.3% 744 0.2% 768 0.2% 694 0.2% 582 0.2% 568 0.2% 590 0.3% 372 0.2% 568 0.2% 568 0.2% 568 0.3% 574 0.2% 518 0.2% 454 0.3% 372 0.3% 510 0.2% 422 0.2% 342 0.2% 348 0.2% 344 0.1% 294 0.1% 296 0.1% 342 0.2% 352	0.2% 928 0.43 0.2% 694 0.47 0.2% 848 0.48 0.2% 880 0.38 0.3% 744 0.48 0.2% 768 0.56 0.2% 780 0.60 0.2% 694 0.33 0.2% 568 0.49 0.2% 568 0.49 0.2% 568 0.49 0.2% 590 0.40 0.3% 372 0.36 0.2% 568 0.45 0.2% 568 0.37 0.3% 574 0.32 0.2% 518 0.33 0.2% 518 0.33 0.2% 454 0.40 0.3% 372 0.35 0.3% 372 0.35 0.3% 372 0.35 0.3% 372 0.26 0.2% 412 0.18 0.1%

0.1% 248 0.20 0 0.1% 282 0.14 0 0.1% 214 0.15 0 0.1% 306 0.20 0 0.1% 300 0.08 0 0.1% 240 0.18 0 0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.1% 148 0.17 0 0.1% 190 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 136 0.				1	
0.1% 214 0.15 0 0.1% 306 0.20 0 0.1% 300 0.08 0 0.1% 240 0.18 0 0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.1% 116 0.13 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 128 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 98 0.05<		0.1%	248	0.20	0
0.1% 306 0.20 0 0.1% 300 0.08 0 0.1% 240 0.18 0 0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.1% 116 0.13 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 128 0.08 0 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 98 0.05 </td <td></td> <td>0.1%</td> <td>282</td> <td>0.14</td> <td>0</td>		0.1%	282	0.14	0
0.1% 300 0.08 0 0.1% 240 0.18 0 0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.1% 116 0.13 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 98 0.05 <td></td> <td>0.1%</td> <td>214</td> <td>0.15</td> <td>0</td>		0.1%	214	0.15	0
0.1% 240 0.18 0 0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 <td></td> <td>0.1%</td> <td>306</td> <td>0.20</td> <td>0</td>		0.1%	306	0.20	0
0.2% 214 0.14 0 260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 72		0.1%	300	0.08	0
260 0.1% 184 0.12 0 0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.1% 116 0.13 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 90 0.05 0 0.1% 66 0.06 0 0.1% 72		0.1%	240	0.18	0
0.1% 148 0.17 0 0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 0.1%		0.2%	214	0.14	0
0.2% 98 0.17 0 0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56	260	0.1%	184	0.12	0
0.1% 190 0.17 0 0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	148	0.17	0
0.1% 160 0.08 0 0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74		0.2%	98	0.17	0
0.1% 116 0.13 0 0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.0% 66 0.04 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	190	0.17	0
0.2% 118 0.12 0 0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.0% 66 0.04 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	160	0.08	0
0.1% 162 0.11 0 0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.0% 66 0.04 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	116	0.13	0
0.1% 128 0.08 0 0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.0% 66 0.04 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.2%	118	0.12	0
0.1% 110 0.07 0 270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	162	0.11	0
270 0.1% 122 0.08 0 0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	128	0.08	0
0.1% 122 0.06 0 0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	110	0.07	0
0.1% 98 0.05 0 0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0	270	0.1%	122	0.08	0
0.0% 58 0.06 0 0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	122	0.06	0
0.1% 136 0.11 0 0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	98	0.05	0
0.1% 98 0.05 0 0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.0%	58	0.06	0
0.1% 66 0.06 0 0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	136	0.11	0
0.1% 90 0.05 0 0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	98	0.05	0
0.1% 72 0.07 0 0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	66	0.06	0
0.2% 84 0.02 0 280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	90	0.05	0
280 0.1% 58 0.06 0 0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.1%	72	0.07	0
0.1% 56 0.06 0 0.0% 66 0.04 0 0.1% 74 0.03 0		0.2%	84	0.02	0
0.0% 66 0.04 0 0.1% 74 0.03 0	280	0.1%	58	0.06	0
0.1% 74 0.03 0		0.1%	56	0.06	0
		0.0%	66	0.04	0
0.1% 118 0.06 0		0.1%	74	0.03	0
		0.1%	118	0.06	0
0.0% 56 0.04 0		0.0%	56	0.04	0
0.1% 30 0.03 0		0.1%	30	0.03	0

	0.1%	74	0.05	0
	0.1%	82	0.03	0
	0.0%	72	0.04	0
290	0.1%	52	0.04	0
	0.0%	72	0.07	0
	0.0%	40	0.04	0
	0.1%	84	0.01	0
	0.1%	84	0.06	0
	0.1%	48	0.04	0

Tabela 38: 1000 Objetos Pre-Runtime Circle OnCollisionStay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	0.2%	240	0.14	0
	0.1%	120	4.02	0
	0.1%	7302	0.10	0
	0.1%	80	4.02	0
	3.5%	7302	0.05	0
	3.5%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
10	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.1%	40	4.30	0
	0.1%	40	4.30	0
20	0.1%	40	0.02	0

0.1%	40	0.02	0
0.1%	40	0.02	0
0.1%	40	0.02	0
0.4%	40	0.02	0
0.1%	40	0.02	0
0.1%	40	0.02	0
0.4%	40	0.02	0
0.1%	40	0.02	0
0.1%	40	0.01	0
0.1%	40	0.02	0
0.0%	40	0.02	0
0.2%	40	0.01	0
0.1%	40	0.02	0
0.1%	80	0.03	0
0.1%	40	0.02	0
0.4%	40	0.03	0
0.1%	40	0.03	0
0.4%	40	0.03	0
0.2%	40	0.02	0
0.1%	40	0.01	0
0.0%	40	0.02	0
0.1%	40	0.01	0
0.1%	40	0.02	0
0.1%	40	0.03	0
0.0%	40	0.01	0
0.1%	40	0.01	0
0.1%		0.01	0
0.0%	40	0.01	0
0.1%	40	0.01	0
0.5%	40	0.09	0
0.1%	40	0.01	0
0.0%	40	0.02	0
	40		
0.0%	40	0.02	0
	0.1% 0.4% 0.1% 0.4% 0.1% 0.4% 0.1% 0.1% 0.1% 0.1% 0.0% 0.2% 0.1% 0.1% 0.4% 0.4% 0.2% 0.1% 0.4% 0.2% 0.1% 0.4% 0.2% 0.1% 0.4% 0.2% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.0%	0.1% 40 0.1% 40 0.4% 40 0.1% 40 0.0% 40 0.1%	0.1% 40 0.02 0.1% 40 0.02 0.4% 40 0.02 0.1% 40 0.02 0.1% 40 0.02 0.1% 40 0.02 0.1% 40 0.02 0.1% 40 0.02 0.0% 40 0.02 0.2% 40 0.01 0.1% 40 0.02 0.1% 40 0.02 0.1% 40 0.03 0.1% 40 0.03 0.1% 40 0.03 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40 0.01 0.1% 40

	0.1%	40	0.01	0
	0.0%	40	0.01	0
	0.1%	46	0.01	0
	0.1%	40	0.03	0
	0.1%	80	0.01	0
60	0.1%	40	0.01	0
	0.1%	40	0.01	0
	0.1%	46	0.02	0
	0.1%	40	0.01	0
	0.0%	40	0.04	0
	0.2%	46	0.02	0
	0.1%	40	0.01	0
	0.1%	40	0.02	0
	0.0%	40	0.01	0
	0.1%	46	0.01	0
70	0.1%	46	0.02	0
	0.0%	46	0.01	0
	0.0%	46	0.01	0
	0.1%	64	0.02	0
	0.1%	54	0.07	0
	0.1%	54	0.01	0
	0.1%	56	0.02	0
	0.2%	56	0.02	0
	0.1%	60	0.03	0
	0.1%	64	0.03	0
80	0.3%	60	0.02	0
	0.1%	64	0.04	0
	0.3%	56	0.04	0
	0.2%	56	0.02	0
	0.2%	60	0.03	0
	0.1%	64	0.02	0
	0.2%	68	0.04	0
	0.1%	70	0.03	0
	0.1%	76	0.04	0

	0.2%	82	0.04	0
90	0.2%	92	0.02	0
	0.2%	114	0.04	0
	0.2%	98	0.03	0
	0.1%	98	0.03	0
	0.2%	94	0.06	0
	0.3%	114	0.11	0
	0.2%	100	0.04	0
	0.7%	102	0.06	0
	0.3%	104	0.05	0
	0.3%	114	0.18	0
100	0.3%	110	0.07	0
	0.6%	114	0.05	0
	0.3%	116	0.06	0
	0.3%	118	0.04	0
	0.2%	128	0.05	0
	0.3%	130	0.05	0
	0.4%	142	0.06	0
	0.2%	168	0.05	0
	0.3%	168	0.05	0
	0.3%	182	0.05	0
110	0.3%	182	0.08	0
	0.3%	184	0.06	0
	0.4%	188	0.08	0
	0.4%	182	0.06	0
	0.4%	246	0.06	0
	0.3%	246	0.07	0
	0.4%	192	0.08	0
	0.3%	190	0.08	0
	0.8%	176	0.07	0
	0.4%	188	0.08	0
120	0.4%	412	0.08	0
	0.5%	218	0.08	0
	0.5%	246	0.09	0

	0.4%	228	0.08	0
	0.4%	246	0.08	0
	0.4%	252	0.09	0
	0.2%	254	0.13	0
	1.4%	274	0.31	0
	0.9%	274	0.13	0
	0.6%	272	0.09	0
130	0.7%	276	0.10	0
	0.7%	274	0.12	0
	0.5%	276	0.11	0
	1.0%	282	0.11	0
	0.7%	568	0.14	0
	0.8%	296	0.13	0
	0.8%	274	0.14	0
	0.6%	294	0.13	0
	0.5%	304	0.12	0
	0.9%	290	0.13	0
140	0.6%	284	0.11	0
	0.9%	274	0.27	0
	0.8%	304	0.13	0
	0.7%	262	0.11	0
	0.5%	334	0.13	0
	1.2%	268	0.13	0
	0.6%	264	0.14	0
	0.6%	290	0.13	0
	0.9%	278	0.11	0
	0.7%	334	0.11	0
150	0.6%	304	0.14	0
	1.4%	286	0.11	0
	1.1%	302	0.13	0
	0.7%	314	0.16	0
	0.9%	304	0.11	0
	0.5%	334	0.21	0
	1.0%	496	0.14	0

	1.4%	304	0.14	0
	0.6%	308	0.17	0
	1.4%	326	0.21	0
160	0.9%	330	0.14	0
	1.8%	620	0.20	0
	1.4%	334	0.17	0
	0.8%	496	0.29	0
	1.2%	334	0.20	0
	2.5%	620	0.21	0
	0.7%	686	0.36	0
	1.4%	382	0.16	0
	2.5%	496	0.20	0
	1.2%	412	0.19	0
170	1.2%	620	0.21	0
	1.0%	444	0.26	0
	2.5%	452	0.24	0
	1.3%	1740	0.23	0
	1.1%	620	0.49	0
	2.6%	462	0.30	0
	2.5%	496	0.27	0
	1.1%	878	0.28	0
	2.1%	1040	0.32	0
	1.7%	570	0.57	0
180	2.1%	596	0.32	0
	1.0%	1740	0.37	0
	3.1%	612	0.74	0
	1.3%	620	0.42	0
	2.5%	1244	0.57	0
	3.5%	1740	0.48	0
	2.1%	660	0.83	0
	2.6%	1412	0.85	0
	3.6%	1740	0.78	0
	1.9%	878	0.77	0
190	2.1%	1740	0.40	0

			Ι	
	2.6%	5276	0.46	0
	2.7%	1500	0.85	0
	3.4%	1612	1.02	0
	2.3%	878	1.96	0
	2.4%	836	2.13	0
	2.1%	1702	1.80	0
	2.1%	10572	2.92	0
	2.7%	878	3.62	0
	2.7%	862	4.34	0
200	3.0%	878	4.71	0
	2.1%	878	5.00	0
	3.6%	1740	5.03	0
	2.7%	1694	5.05	0
	3.4%	5276	6.39	0
	3.1%	1672	6.84	0
	3.4%	854	7.38	0
	3.3%	5276	1.02	0
	3.2%	878	5.28	0
	3.2%	13356	6.38	0
210	3.4%	1778	6.42	0
	3.7%	10572	6.98	0
	3.7%	10572	1.56	0
	3.5%	1904	6.76	0
	4.0%	5276	7.52	0
	3.4%	5276	7.19	0
	3.4%	2006	5.53	0
	2.9%	3282	5.16	0
	3.6%	3856	4.84	0
	3.7%	10572	2.85	0
220	3.6%	5276	4.92	0
	3.7%	10572	4.48	0
	3.0%	5700	1.02	0
	3.4%	13356	1.02	0
	3.2%	7244	4.68	0

	3.4%	13356	5.04	0
	3.2%	9488	1.56	0
	3.8%	9448	4.86	0
	3.8%	10572	1.56	0
	3.3%	10988	4.56	0
230	3.4%	10664	4.16	0
	3.6%	10384	4.17	0
	3.7%	13394	4.30	0
	3.5%	13356	4.30	0
	3.9%	14366	0.95	0
	3.6%	13356	4.27	0
	3.6%	14356	4.29	0
	3.6%	13550	4.24	0
	3.5%	10784	3.72	0
	3.2%	13356	3.64	0
240	3.0%	9488	3.77	0
	3.0%	9488	3.86	0
	3.7%	13616	3.70	0
	3.8%	14720	3.56	0
	3.2%	14252	3.61	0
	2.9%	11476	3.47	0
	3.4%	10848	4.02	0
	3.2%	10624	4.02	0
	3.5%	6020	3.28	0
	3.7%	9684	3.32	0
250	3.2%	9414	2.73	0
	3.5%	9488	2.52	0
	3.5%	9440	3.02	0
	2.3%	9402	2.83	0
	3.6%	9488	2.85	0
	3.5%	9488	2.85	0
	3.7%	9464	2.37	0
	3.3%	9568	2.28	0
	3.0%	9112	2.04	0

	3.2%	9004	1.40	0
260	3.0%	8956	2.07	0
	3.6%	8884	1.96	0
	3.7%	8678	1.43	0
	3.4%	8354	1.47	0
	3.4%	7636	1.48	0
	3.4%	7688	1.40	0
	3.0%	7636	1.02	0
	3.3%	7718	1.55	0
	3.3%	7468	1.43	0
	3.7%	7388	1.02	0
270	3.5%	7418	1.02	0
	3.5%	7302	1.50	0
	4.0%	7302	1.56	0
	3.1%	7334	1.43	0
	3.6%	2916	0.96	0
	3.2%	7022	1.56	0
	3.4%	5756	1.55	0
	2.5%	5708	1.56	0
	2.9%	5294	1.60	0
	2.9%	6136	1.03	0
280	2.9%	6020	0.96	0
	3.4%	6020	0.98	0
	3.4%	5880	1.91	0
	3.4%	4934	1.42	0
	3.4%	3922	0.95	0
	2.3%	4042	0.91	0
	3.3%	3012	0.95	0
	3.2%	4008	1.43	0
	3.0%	4022	0.95	0
	3.0%	2996	1.04	0
290	2.7%	3040	1.02	0
	2.9%	2946	0.94	0
	3.3%	2924	1.34	0

3.3%	3064	0.95	0
1.9%	3106	1.04	0
3.5%	2118	0.93	0

Tabela 39: 1000 Objetos Pre-Runtime Circle OnTriggerEnter2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
30				
	0.64		0.00	
	0.6%	4	0.09	0
40				
40				

	0.0%	6	0.00	0
	0.0%	2	0.00	0
50				
			_	
	0.0%	8	0.00	0
60				
	0.0%	8	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.07		0.00	
70	0.0%	6	0.00	0
70	0.0%	2	0.00	0
	0.00		0.00	0
	0.0%	6	0.00	0
	0.0%	2	0.00	0

80	0.0%	4	0.00	0	
	0.0%	6	0.00	0	
	0.0%	2	0.00	0	
90					
	0.0%	8	0.00	0	
	0.0%	6	0.00	0	
100	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.0%	8	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
110	0.0%	2	0.00	0	
	0.0%	2	0.00	0	

0.0%	4	0.00	0	
0.0%	2	0.00	0	
0.007	1	0.00	0	
0.070		0.00		
0.0%	2	0.00	0	
0.076				
0.0%	4	0.00	0	
0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.00	4	0.00		
0.0%	4	0.00	U	
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 2 0.0% 4 0.0% 2 0.0% 4 0.0% 4 0.0% 2 0.0% 4 0.0% 2	0.0% 2 0.00 0.0% 4 0.00 0.0% 2 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 2 0.00 0.0% 2 0.00 0.0% 2 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 4 0.00 0.0% 2 0.00	0.0% 2 0.00 0 0.0% 4 0.00 0 0.0% 2 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 2 0.00 0

	0.0%	2	0.00	0	
	0.070		0.00	0	
	0.0%	4	0.00	0	
150			0.00		
150	0.0%	6	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.0%	4	0.00	0	
160	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
170	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.070		0.00		
100	0.07		0.00		
180	0.0%	2	0.00	0	

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

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

0.0%	4	0.00	0	
0.070				
0.0%	2	0.00	0	
0.070		0.00		
0.0%	2	0.00	0	
0.070		0.00		
0.0%	2	0.00	0	
0.070		0.00	U	
2.24		0.00		
0.0%	2	0.00	0	
0.0%	2	0.00	0	
0.0%	2	0.00	0	
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 2 0.0% 2	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 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0 0.0% 2 0.00 0

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

Tabela 40: 1000 Objetos Pre-Runtime Circle OnTriggerE-xit2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory
10				
60				
	0.6%	4	0.10	0

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

100					
100					
	0.0%	4	0.00	0	
	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
110					
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
120	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2			
130			0.00	0	
150	0.0%	2	0.00	0	
	0.0%	4	0.00	0	
	0.070	+	0.00	U	

	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
140	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
	0.0%	2	0.00	0	
150		4			
150	0.0%	4	0.00	0	
	0.0%	2	0.00	0	
	0.0%				
		2	0.00	0	
	0.0%				
		2	0.00	0	
	0.0%	2			
160					
			0.01	0	
	0.0%	2		0	
			0.00		
	0.0%	2	0.00	0	
	0.070		0.00		

	0.0%	2	0.00	0
	0.0%	2	0.00	0
170	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
180				
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%			
190		4	0.00	0
	0.0%			
		4	0.00	0
	0.0%	2		
			0.00	0
	0.0%	2		0
			0.00	
	0.0%	4	0.00	0
	0.0%	2	0.00	0
200	0.0%	2	0.00	0

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

		2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
240	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	4	0.00	0
	0.0%	4	0.00	0
	0.0%	2	0.00	0
	0.0%	2	0.01	0
	0.0%	2	0.00	0
250				
	0.0%	2	0.00	0
260				
200	0.0%	2	0.00	0
	0.0%		0.00	U
	0.070	2	0.00	0
	0.0%		0.00	U
	0.070			
		2	0.00	0
	0.007		0.00	U
	0.0%	2		

270				
			0.00	0
	0.0%	2		
			0.00	0
	0.0%	2		
	0.070			
280			0.00	0
	0.0%	2		
	0.070			
290				
			0.00	0
	0.007			
	0.0%	6		
			0.00	0
	0.007	12		
	0.0%	2		

Tabela 41: 1000 Objetos Pre-Runtime Circle OnTriggerS-tay2D

quadrosTotal	totalPercent	calls	totalTime	gcMemory

10 30 0.7%				T	
30 0.7% 4 0.05 0 0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.2% 64 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0.0% 4 0.13 0 0.2% 4 0.00 0.2% 4 0.00 0.2% 64 0.00 0.2% 64 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% 1 0.001 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0.0% 4 0.13 0 0.2% 4 0.00 0.2% 4 0.00 0.2% 64 0.00 0.2% 64 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% 1 0.001 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0.0% 4 0.13 0 0.2% 4 0.00 0.2% 4 0.00 0.2% 64 0.00 0.2% 64 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% 1 0.001 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0.0% 4 0.13 0 0.2% 4 0.00 0.2% 4 0.00 0.2% 64 0.00 0.2% 64 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% 1 0.001 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0 0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.2% 64 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
30 0.7% 4 0.05 0.0% 4 0.13 0 0.2% 4 0.00 0.2% 4 0.00 0.2% 64 0.00 0.2% 64 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% 1 0.001 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.7% 4 0.05 0 0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 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% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0	10				
0.7% 4 0.05 0 0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 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% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0	30				
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
0.0% 4 0.13 0 40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0					
40 0.0% 64 0.05 0 0.2% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.7%	4	0.05	0
0.2% 4 0.00 0 0.2% 64 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	4	0.13	0
0.2% 64 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0	40	0.0%	64	0.05	0
0.0% 4 0.00 0 0.0% 4 0.00 0 0.0% 4 0.01 0 0.0% 10 0 0 0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.2%	4	0.00	0
0.0% 4 0.00 0 0.0% 4 0.01 0 0.01 0 0 0 0.0% 10 0 0 0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.2%	64	0.00	0
0.0% 4 0.01 0 0.01 0 0.0% 10 0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	4	0.00	0
0.01 0.0% 10 0.0% 12 0.01 0.0% 12 0.00 0 50 0.0% 12 0.01 0.0% 12 0.01 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0		0.0%	4	0.00	0
0.0% 10 0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	4	0.01	0
0.0% 12 0.01 0 0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0				0.01	0
0.0% 12 0.00 0 50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	10		
50 0.0% 12 0.01 0 0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	12	0.01	0
0.0% 12 0.01 0 0.0% 12 0.01 0		0.0%	12	0.00	0
0.0% 12 0.01 0	50	0.0%	12	0.01	0
		0.0%	12	0.01	0
0.00		0.0%	12	0.01	0
0.0% 32 0.01 0		0.0%	32	0.01	0
0.0% 12 0.00 0		0.0%	12	0.00	0

	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	12	0.01	0
	0.0%	32	0.01	0
	0.1%	32	0.03	0
60	0.1%	20	0.01	0
	0.1%	20	0.01	0
	0.0%	20	0.01	0
	0.0%	16	0.01	0
	0.0%	16	0.00	0
	0.0%	16	0.01	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	20	0.01	0
	0.0%	20	0.01	0
70	0.0%	28	0.01	0
	0.0%	20	0.01	0
	0.0%	26	0.01	0
	0.0%	28	0.08	0
	0.0%	28	0.01	0
	0.1%	28	0.01	0
	0.5%	28	0.08	0
	0.0%	28	0.02	0
	0.1%	34	0.08	0
	0.1%	34	0.02	0
80	0.0%	30	0.02	0
	0.1%	30	0.01	0
	0.0%	22	0.02	0
	0.0%	24	0.01	0
	0.1%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	24	0.01	0
	0.0%	30	0.01	0
	0.0%	30	0.01	0
L			1	

	0.0%	24	0.01	0
90	0.0%	24	0.02	0
	0.1%	30	0.02	0
	0.3%	30	0.02	0
	0.1%	32	0.03	0
	0.2%	32	0.02	0
	0.2%	32	0.05	0
	0.1%	40	0.03	0
	0.1%	40	0.02	0
	0.1%	40	0.02	0
	0.2%	40	0.02	0
100	0.2%	38	0.02	0
	0.1%	44	0.02	0
	0.1%	46	0.02	0
	0.2%	44	0.02	0
	0.1%	44	0.03	0
	0.2%	46	0.02	0
	0.1%	48	0.02	0
	0.1%	46	0.01	0
	0.1%	44	0.02	0
	0.1%	44	0.02	0
110	0.1%	46	0.02	0
	0.3%	54	0.02	0
	0.1%	56	0.03	0
	0.2%	56	0.03	0
	0.3%	58	0.03	0
	0.1%	60	0.06	0
	0.3%	60	0.05	0
	0.1%	64	0.02	0
	0.1%	62	0.02	0
	0.1%	66	0.03	0
120	0.1%	64	0.02	0
	0.1%	132	0.05	0
	0.9%	64	0.19	0

	1			
	0.3%	64	0.03	0
	0.2%	60	0.03	0
	0.1%	62	0.02	0
	0.1%	62	0.02	0
	0.1%	60	0.03	0
	0.1%	62	0.02	0
	0.2%	66	0.06	0
130	0.2%	66	0.03	0
	0.1%	66	0.05	0
	0.1%	66	0.03	0
	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.1%	66	0.03	0
	0.1%	66	0.03	0
	0.3%	130	0.05	0
	0.3%	66	0.05	0
	0.2%	64	0.03	0
140	0.2%	66	0.03	0
	0.1%	66	0.03	0
	0.1%	68	0.03	0
	0.3%	66	0.03	0
	0.3%	66	0.03	0
	0.1%	66	0.03	0
	0.2%	64	0.03	0
	0.2%	60	0.03	0
	0.1%	58	0.04	0
	0.1%	58	0.03	0
150	0.2%	60	0.02	0
	0.1%	62	0.03	0
	0.2%	64	0.03	0
	0.1%	64	0.03	0
	0.3%	64	0.03	0
	0.1%	62	0.05	0
	0.3%	60	0.03	0
L	1	1	1	

	0.1%	58	0.04	0
	0.1%	58	0.04	0
	0.3 %	62		
160			0.06	0
160	0.1%	68	0.03	0
	0.4%	136	0.04	0
	0.3%	70	0.07	0
	0.2%	68	0.04	0
	0.2%	70	0.03	0
	0.3%	70	0.06	0
	0.3%	70	0.05	0
	0.2%	74	0.05	0
	0.1%	72	0.04	0
	0.4%	76	0.03	0
170	0.2%	76	0.05	0
	0.1%	76	0.04	0
	0.4%	152	0.03	0
	0.1%	78	0.08	0
	0.2%	76	0.03	0
	0.3%	78	0.03	0
	0.1%	76	0.05	0
	0.5%	154	0.04	0
	0.1%	76	0.10	0
	0.2%	152	0.03	0
180	0.1%	76	0.08	0
	0.2%	150	0.04	0
	0.3%	140	0.08	0
	0.1%	72	0.07	0
	0.2%	148	0.03	0
	0.3%	72	0.08	0
	0.1%	72	0.06	0
	0.2%	144	0.04	0
	0.2%	144	0.07	0
	0.2%	144	0.08	0
190	0.2%	146	0.07	0
170	0.270	1-70	0.07	

			1	
	0.2%	74	0.07	0
	0.2%	72	0.03	0
	0.1%	72	0.03	0
	0.2%	144	0.03	0
	0.2%	144	0.07	0
	0.2%	136	0.07	0
	0.2%	136	0.09	0
	0.4%	136	0.09	0
	0.5%	198	0.15	0
200	0.2%	202	0.32	0
	0.2%	200	0.13	0
	0.2%	198	0.11	0
	0.1%	254	0.15	0
	0.2%	244	0.13	0
	0.2%	296	0.16	0
	0.1%	372	0.19	0
	0.1%	374	0.24	0
	0.1%	374	0.20	0
	0.1%	380	0.20	0
210	0.1%	396	0.22	0
	0.1%	410	0.25	0
	0.1%	420	0.22	0
	0.1%	424	0.25	0
	0.1%	428	0.24	0
	0.1%	410	0.25	0
	0.1%	386	0.22	0
	0.1%	384	0.35	0
	0.1%	324	0.22	0
	0.1%	380	0.16	0
220	0.1%	388	0.24	0
	0.1%	418	0.24	0
	0.1%	418	0.27	0
	0.1%	396	0.25	0
	0.1%	376	0.36	0
			1	L

	0.1%	388	0.26	0
	0.1%	360	0.21	0
	0.1%	352	0.23	0
	0.1%	348	0.20	0
	0.1%	340	0.21	0
230	0.2%	348	0.19	0
	0.1%	362	0.34	0
	0.1%	368	0.21	0
	0.1%	352	0.23	0
	0.1%	340	0.20	0
	0.1%	348	0.23	0
	0.1%	348	0.23	0
	0.1%	370	0.23	0
	0.1%	390	0.23	0
	0.2%	384	0.24	0
240	0.1%	392	0.27	0
	0.1%	390	0.21	0
	0.1%	384	0.25	0
	0.2%	394	0.22	0
	0.1%	384	0.26	0
	0.2%	376	0.21	0
	0.2%	372	0.23	0
	0.1%	372	0.25	0
	0.2%	368	0.22	0
	0.2%	350	0.24	0
250	0.2%	344	0.23	0
	0.1%	344	0.21	0
	0.2%	354	0.20	0
	0.2%	348	0.23	0
	0.3%	348	0.24	0
	0.2%	280	0.32	0
	0.2%	280	0.17	0
	0.2%	280	0.17	0
	0.1%	336	0.19	0
			*	1

0.2% 0.2% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2%	336 348 300 248 250 190 248	0.19 0.20 0.20 0.17 0.17 0.15	0 0 0 0
0.2% 0.2% 0.2% 0.1% 0.3%	300 248 250 190	0.20 0.17 0.17	0
0.2% 0.2% 0.1% 0.3%	248 250 190	0.17 0.17	0
0.2% 0.1% 0.3%	250 190	0.17	
0.1%	190		0
0.3%		0.15	
	248	7	0
0.2%	210	0.10	0
+	246	0.20	0
0.2%	186	0.15	0
0.2%	186	0.10	0
0.2%	188	0.10	0
0.2%	186	0.10	0
0.2%	186	0.12	0
0.2%	186	0.10	0
0.2%	186	0.10	0
0.1%	124	0.11	0
0.2%	186	0.08	0
0.2%	186	0.12	0
0.1%	120	0.12	0
0.2%	184	0.06	0
0.2%	186	0.12	0
0.2%	184	0.10	0
0.1%	122	0.10	0
0.2%	124	0.06	0
0.2%	120	0.06	0
0.2%	186	0.11	0
0.2%	186	0.11	0
0.1%	124	0.10	0
0.3%	186	0.06	0
0.2%	186	0.16	0
0.2%	186	0.13	0
0.2%	124	0.09	0
0.1%	124	0.06	0
0.2%			0
	0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1%	0.2% 246 0.2% 186 0.2% 188 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.1% 124 0.2% 186 0.1% 120 0.2% 184 0.2% 184 0.2% 184 0.2% 124 0.2% 124 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 186 0.2% 124 0.2% 124 0.2% 124 0.2% 124 0.2% 124 0.1% 124	0.2% 246 0.20 0.2% 186 0.15 0.2% 186 0.10 0.2% 188 0.10 0.2% 186 0.12 0.2% 186 0.10 0.2% 186 0.10 0.1% 124 0.11 0.2% 186 0.08 0.2% 186 0.12 0.1% 120 0.12 0.2% 184 0.06 0.2% 184 0.10 0.2% 124 0.06 0.2% 124 0.06 0.2% 186 0.11 0.1% 124 0.10 0.3% 186 0.11 0.2% 186 0.11 0.2% 186 0.11 0.2% 186 0.11 0.2% 186 0.16 0.2% 186 0.16 0.2% 186 0.16 0.2% 186 0.13 0.2% 124 0.06

	0.2%	124	0.07	0
	0.2%	172	0.08	0
	0.2%	112	0.11	0

Tabela 42: 1000 Objetos Pre-Runtime Circle Physics2DSimulate

quadrosTotal	totalPercent	calls	totalTime	gcMemory
	19.3%	6	12.27	800000
	41.1%	3	12.75	426600
	41.1%	2	6.02	284400
	45.2%	1	4.22	142200
	26.5%	1	2.53	142200
	18.5%	1	2.54	142200
	15.4%	1	2.54	142200
	14.1%	1	4.30	142200
10	17.1%	1	2.74	142200
	22.6%	1	2.65	142200
	18.1%	1	4.17	177700
	17.6%	1	2.85	142200
	17.1%	1	2.74	142200
	22.6%	1	2.63	142200
	17.1%	1	4.20	177700
	16.5%	1	2.85	177700
	16.6%	1	2.69	142200
	22.0%	1	2.85	142200
20	17.8%	1	2.64	142200
	17.8%	1	2.72	142200
	17.3%	1	4.16	142200
	16.5%	1	2.58	142200
	21.5%	1	2.58	142200
	17.7%	1	4.14	142200
	16.4%	1	2.70	142200

	21.8%	1	4.63	142200
	10.0%	1	4.25	142200
	27.1%	1	2.86	142200
30	19.4%	1	2.42	142200
	14.4%	1	5.16	142200
	26.6%	1	11.93	284400
	50.2%	1	7.74	142200
	51.9%	1	3.38	142200
	51.6%	1	2.69	142200
	50.2%	1	2.77	455000
	51.6%	1	4.58	142200
	28.3%	1	2.77	455000
	17.2%	1	3.27	142300
40	51.6%	1	3.27	142200
	18.7%	1	3.19	455000
	42.9%	1	3.12	142200
	26.2%	1	3.27	1200000
	20.8%	1	2.75	142200
	42.9%	1	4.45	1200000
	17.1%	1	2.84	142200
	24.9%	1	2.91	142300
	17.2%	1	4.50	
	17.5%	1		142200
50	25.1%	1	2.80	142200
	22.6%		4.33	255900
		1	2.73	142200
	17.5%	1	2.82	142200
	13.3%	1	2.62	255900
	16.6%	1	3.83	142200
	22.6%	1	2.82	142200
	18.2%	1	4.58	142200
	21.8%	1	2.62	142200
	28.0%	1	2.53	142200
60	17.8%	1	3.99	142200

	15.6%	1	2.45	142200
	21.8%	1	10.61	142200
	9.7%	1	2.97	142200
	61.9%	2	4.81	142200
	26.0%	1	2.62	142200
	21.2%	1	2.46	142200
	27.4%	1	4.55	177700
	17.1%	1	2.69	142200
	17.5%	1	2.69	163600
70	14.7%	1	2.85	163600
	17.1%	1	4.35	177700
	18.4%	1	2.95	177700
	24.3%	1	2.85	177700
	19.7%	1	4.66	177700
	16.9%	1	2.96	192000
	25.4%	1	12.10	192000
	19.1%	1	4.81	206200
	42.9%	1	3.21	213300
	19.9%	1	3.38	220400
80	17.5%	1	5.06	255900
	27.5%	1	2.66	227500
	27.8%	1	3.76	227500
	51.6%	1	4.76	248800
	21.5%	1	2.82	455000
	17.5%	1	2.74	255900
	51.6%	1	2.98	455000
	21.5%	1	2.82	800000
	26.5%	1	3.27	277300
	20.3%	1	3.27	800000
90	21.5%	1	3.73	327000
	16.7%	1	4.79	348400
	26.4%	1	3.11	800000
	20.8%	1	3.73	348400
	11.1%	1	3.06	362600

	31.3%	1	6.94	455000
	51.6%	1	4.03	405200
	21.9%	1	3.73	426600
	35.5%	1	3.69	440800
	33.9%	1	7.88	455000
100	51.6%	1	3.93	800000
	32.8%	1	2.94	504800
	21.5%	1	3.27	800000
	21.5%	1	4.71	497700
	24.2%	1	11.75	1100000
	22.4%	1	4.61	500000
	25.7%	1	3.30	600000
	19.6%	1	3.27	1100000
	26.1%	1	3.73	800000
	22.6%	1	3.35	700000
110	25.7%	1	3.73	1100000
	28.0%	1	3.81	700000
	25.7%	1	4.93	800000
	21.5%	1	15.55	800000
	25.0%	1	12.11	800000
	51.6%	1	3.73	1100000
	37.7%	1	15.55	800000
	21.5%	1	15.55	1600000
	22.4%	1	4.56	1100000
	28.4%	1	3.37	900000
120	25.7%	1	4.58	1200000
	21.7%	1	3.45	1100000
	25.7%	1	3.73	1000000
	22.8%	1	4.81	1100000
	26.4%	1	15.55	1100000
	40.6%	1	3.92	1000000
	30.4%	1	15.55	1200000
	61.3%	1	3.95	1200000
	25.7%	1	3.88	1100000

	37.2%	1	15.55	1100000
130	24.1%	2	4.06	2200000
	25.4%	1	4.16	1100000
	54.7%	1	15.57	1200000
	30.4%	1	4.99	1100000
	30.4%	1	4.24	1100000
	38.6%	1	5.77	1100000
	25.7%	1	4.21	1200000
	27.9%	1	4.06	1200000
	26.1%	1	15.55	1100000
	30.4%	1	4.06	1100000
140	55.9%	1	6.82	1100000
	56.2%	1	4.06	1100000
	47.0%	1	4.89	1700000
	30.4%	1	6.30	1200000
	30.4%	1	4.06	1200000
	33.9%	2	4.06	1200000
	55.5%	1	3.99	1200000
	30.5%	1	5.93	1200000
	24.2%	1	4.51	1700000
	30.4%	1	5.43	1300000
150	40.9%	1	5.30	1700000
	29.3%	1	13.09	1300000
	27.2%	1	4.35	1300000
	30.5%	1	5.36	1700000
	14.2%	1	4.06	1300000
	30.5%	1	3.84	1500000
	55.8%	1	9.12	1600000
	59.1%	1	13.07	1700000
	40.6%	1	5.30	1600000
	30.5%	1	7.88	1700000
160	42.9%	1	5.30	6000000
	40.3%	1	6.45	1700000
	34.5%	1	4.68	1800000

	30.5%	1	15.30	1900000
	53.8%	1	5.30	1900000
	74.5%	1	6.60	6000000
	50.9%	1	4.48	2000000
	30.5%	1	13.69	6000000
	50.6%	1	6.18	4300000
	46.5%	1	5.30	2200000
170	30.7%	1	13.99	2300000
	74.5%	2	5.30	2500000
	61.1%	1	5.31	2500000
	74.5%	1	5.51	6000000
	43.5%	1	15.86	2700000
	31.8%	1	13.99	5600000
	70.6%	1	13.99	2800000
	74.5%	1	18.24	6000000
	41.1%	1	5.61	6300000
	61.5%	1	11.41	3200000
180	74.5%	1	18.75	7300000
	42.0%	1	13.99	6700000
	63.5%	1	12.92	7300000
	76.3%	1	22.71	3400000
	63.5%	2	13.99	3300000
	64.9%	1	23.04	6700000
	70.3%	1	9.11	7300000
	75.7%	1	28.44	6600000
	63.5%	1	28.44	6500000
	57.5%	2	16.74	3300000
190	66.5%	1	23.99	3400000
	76.9%	2	28.44	6900000
	78.9%	1	26.32	7300000
	80.1%	2	24.98	7100000
	78.5%	2	8.71	7300000
	63.5%	1	7.31	42300000
	56.7%	2	16.87	8000000

	63.5%	1	23.86	12800000
	78.2%	1	24.38	42300000
	77.8%	2	28.44	13600000
200	91.9%	2	28.69	14400000
	63.3%	2	28.44	42300000
	81.0%	2	30.53	15100000
	91.9%	1	39.39	20800000
	86.6%	1	163.37	22100000
	91.9%	2	49.60	34200000
	86.1%	2	65.03	36600000
	87.2%	2	162.05	40800000
	90.4%	2	115.24	42300000
	89.6%	2	163.37	42300000
210	84.1%	2	109.21	47700000
	93.6%	3	163.37	42000000
	92.7%	3	128.13	41100000
	91.9%	3	126.82	45500000
	91.9%	3	125.17	51900000
	84.0%	4	162.05	55600000
	92.5%	5	162.05	56400000
	89.6%	6	173.69	47700000
	89.6%	6	163.37	47700000
	93.5%	6	113.02	53800000
220	87.1%	6	163.37	43100000
	94.5%	6	181.18	36900000
	93.0%	6	164.02	53000000
	87.2%	6	149.77	56600000
	94.8%	6	162.05	55600000
	89.6%	5	168.10	47700000
	90.2%	6	162.05	52500000
	94.3%	6	163.23	48800000
	89.6%	6	162.02	47700000
	93.7%	6	113.02	36900000
230	91.5%	6	170.98	43400000

	87.3%	6	113.02	36900000
	92.9%	6	182.84	40400000
	90.2%	6	140.92	38800000
	93.5%	6	136.56	37400000
	92.8%	6	105.93	27600000
	90.2%	6	139.85	38200000
	93.7%	6	113.02	36900000
	93.1%	6	128.09	37200000
	81.3%	6	113.02	36800000
240	92.9%	6	115.99	37600000
	90.2%	6	117.72	36900000
	92.2%	6	124.43	37100000
	90.2%	6	114.40	35200000
	93.0%	5	105.93	34600000
	83.1%	6	120.27	27600000
	92.0%	6	103.31	33500000
	93.5%	6	125.78	31500000
	81.3%	6	105.93	29200000
	85.3%	6	52.30	11400000
250	92.3%	6	118.25	29100000
	82.3%	6	105.93	27600000
	91.6%	6	104.73	29100000
	81.3%	5	94.81	27600000
	90.0%	6	100.86	29200000
	81.3%	6	105.93	28200000
	82.2%	3	102.37	28000000
	92.1%	6	87.10	27800000
	91.6%	5	92.30	27600000
	90.7%	6	106.95	26800000
260	91.0%	5	89.75	26300000
	81.3%	6	52.30	21800000
	90.9%	6	93.40	11400000
	89.7%	6	44.93	20100000
	82.3%	5	81.89	10900000

	90.0%	5	75.61	23300000
	78.3%	6	52.30	22100000
	90.2%	6	71.80	11400000
	89.2%	6	52.30	18600000
	82.3%	5	92.31	14900000
270	90.3%	3	74.90	11400000
	89.4%	3	61.66	11300000
	82.3%	4	56.94	15200000
	85.2%	4	52.30	15000000
	88.1%	3	42.64	11400000
	71.1%	3	55.33	11100000
	87.8%	4	53.01	11200000
	82.3%	3	26.22	10600000
	83.4%	3	44.93	10900000
	85.3%	3	45.71	11500000
280	85.6%	3	36.52	11600000
	83.9%	3	44.93	7800000
	68.8%	3	43.15	10900000
	84.2%	3	44.90	11500000
	82.6%	3	35.18	11300000
	81.0%	3	35.68	7600000
	80.3%	3	44.93	11600000
	85.2%	2	33.74	11600000
	78.9%	3	34.44	11500000
	84.2%	3	35.49	10900000
290	79.0%	3	44.93	7600000
	79.3%	3	35.76	10600000
	84.4%	2	27.85	7400000
	84.7%	3	26.22	10900000
	58.6%	2	25.42	10800000
	87.2%	2	34.50	10600000

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

APÊNDICE B - TABELAS DE RESULTADOS - EDGE COLLIDER

R	1.	PRI	FR	ΤΙΛ	ITI	MF

- B.1.1 UM OBJETO
- B.1.2 DEZ OBJETOS
- B.1.3 CINQUENTA OBJETOS
- B.1.4 CEM OBJETOS
- **B.1.5 QUINHENTOS OBJETOS**
- B.1.6 MIL OBJETOS
- B.2 *RUNTIME*
- B.2.1 UM OBJETO POR SEGUNDO
- B.2.2 DEZ OBJETOS POR SEGUNDO
- B.2.3 CINQUENTA OBJETOS POR SEGUNDO
- B.2.4 CEM OBJETOS POR SEGUNDO
- B.2.5 QUINHENTOS OBJETOS POR SEGUNDO
- B.2.6 MIL OBJETOS POR SEGUNDO

APÊNDICE C - TABELAS DE RESULTADOS - POLYGON COLLIDER

C 1	DDF	$DII\lambda$	ITIMF
.	F I\ I'	111/11	, , , , , , , , , , , , , , , , , , ,

- C.1.1 UM OBJETO
- C.1.2 DEZ OBJETOS
- C.1.3 CINQUENTA OBJETOS
- C.1.4 CEM OBJETOS
- C.1.5 QUINHENTOS OBJETOS
- C.1.6 MIL OBJETOS
- C.2 *RUNTIME*
- C.2.1 UM OBJETO POR SEGUNDO
- C.2.2 DEZ OBJETOS POR SEGUNDO
- C.2.3 CINQUENTA OBJETOS POR SEGUNDO
- C.2.4 CEM OBJETOS POR SEGUNDO
- C.2.5 QUINHENTOS OBJETOS POR SEGUNDO
- C.2.6 MIL OBJETOS POR SEGUNDO