UFMG
UNIVERSIDADE FEDERAL DE MINAS GERAIS

Universidade Federal de Minas Gerais

Turma: Ciência da Computação **Prof.:** Gisele e Wagner

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Matrícula: 2022043507

Prática 2 - Análise de Desempenho

Belo Horizonte
2022

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2.2.1. Produto Interno
2.2.1.1. 100

I 1 254562.574472362
F 2 254562.617339069 0.042866707

2.2.1.2. 200

I 1 254888.253546165
F 2 254888.253575669 0.000029504

2.2.1.3. 300

I 1 254888.264763125
F 2 254888.264803796 0.000040671

2.2.1.4. 400

I 1 254888.274335435
F 2 254888.274375542 0.000040107

2.2.1.5. 500

I 1 254888.283020725
F 2 254888.283074359 0.000053634

2.2.2. Norma
2.2.2.1. 100

I 1 254888.245297449
F 2 254888.245317604 0.000020155

2.2.2.2. 200

I 1 254888.258222163
F 2 254888.258244641 0.000022478

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I 1 254888.277441648
F 2 254888.277476624 0.000034976

2.2.2.5. 500

I 1 254888.287386750
F 2 254888.287437468 0.000050718

2.2.3. Soma

2.2.3.1. 100

I 1 254888.240343472
F 2 254888.240380873 0.000037401

2.2.3.2. 200

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F 2 254888.248039996 0.000029227

2.2.3.3. 300

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F 2 254888.261950074 0.000035157

2.2.3.4. 400

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F 2 254888.270912351 0.000042571

2.2.3.5. 500

I 1 254888.280105477
F 2 254888.280177967 0.000072490

2.3. VetorDinamico

2.3.1. Produto Interno

2.3.1.1. 1M

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F 2 255301.290950103 0.057504349

2.3.1.2. 2M

I 1 255301.427894364
F 2 255301.514109285 0.086214921

2.3.1.3. 3M

I 1 255302.146428578
F 2 255302.296704753 0.150276175

2.3.1.4. 4M

I 1 255304.157597536
F 2 255304.328919416 0.171321880

2.3.1.5. 5M

I 1 255306.033850601
F 2 255306.258852733 0.225002132

2.3.2. Norma

2.3.2.1. 1M

I 1 255301.294175032
F 2 255301.316129585 0.021954553

2.3.2.2. 2M

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2.3.2.3. 3M

I 1 255303.457869837
F 2 255303.519403575 0.061533738

2.3.2.4. 4M

I 1 255304.331639561
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2.3.2.5. 5M

I 1 255306.262175432
F 2 255306.353914311 0.091738879

2.3.3. Soma

2.3.3.1. 1M

I 1 255301.167384475
F 2 255301.230012161 0.062627686

2.3.3.2. 2M

I 1 255301.318887652
F 2 255301.423782002 0.104894350

2.3.3.3. 3M

I 1 255301.565049238
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2.3.3.4. 4M

I 1 255303.918009986
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2.3.3.5. 5M

I 1 255304.408731229
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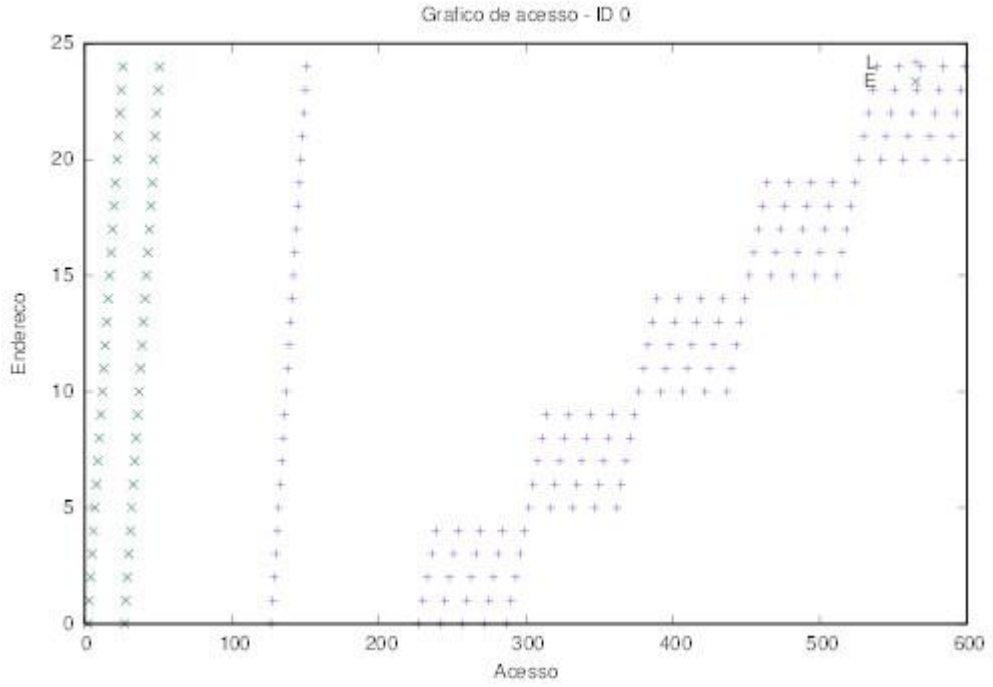
3. Plano de experimentos de localidade de referência

4. Análise de Localidade de Referência

4.1. Mapa de acesso

4.1.1. AnaliseMemoria

4.1.1.1. Multiplicação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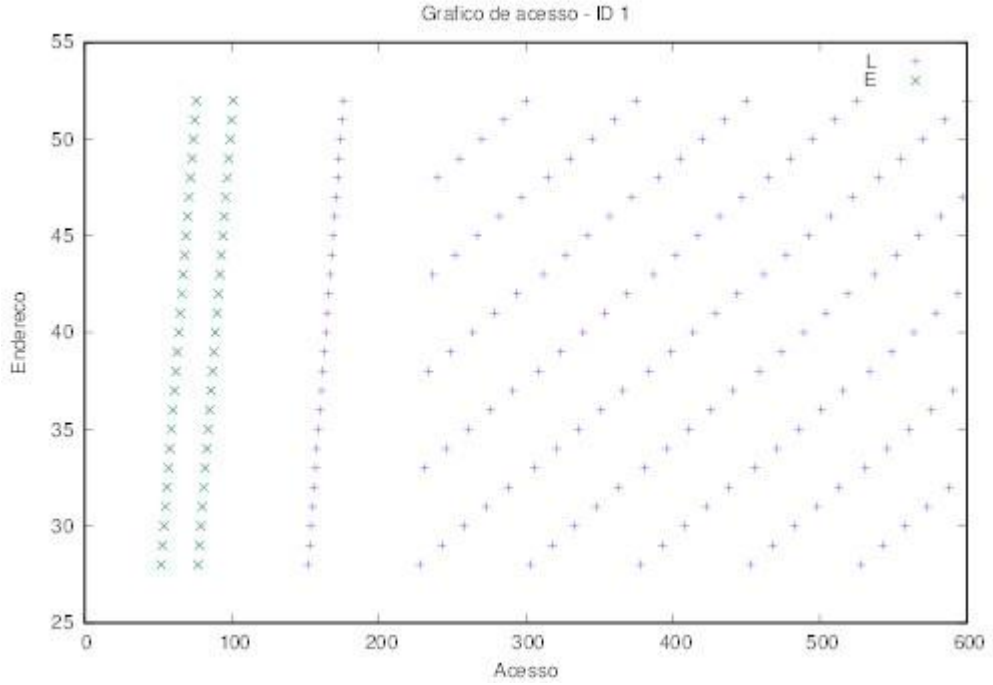
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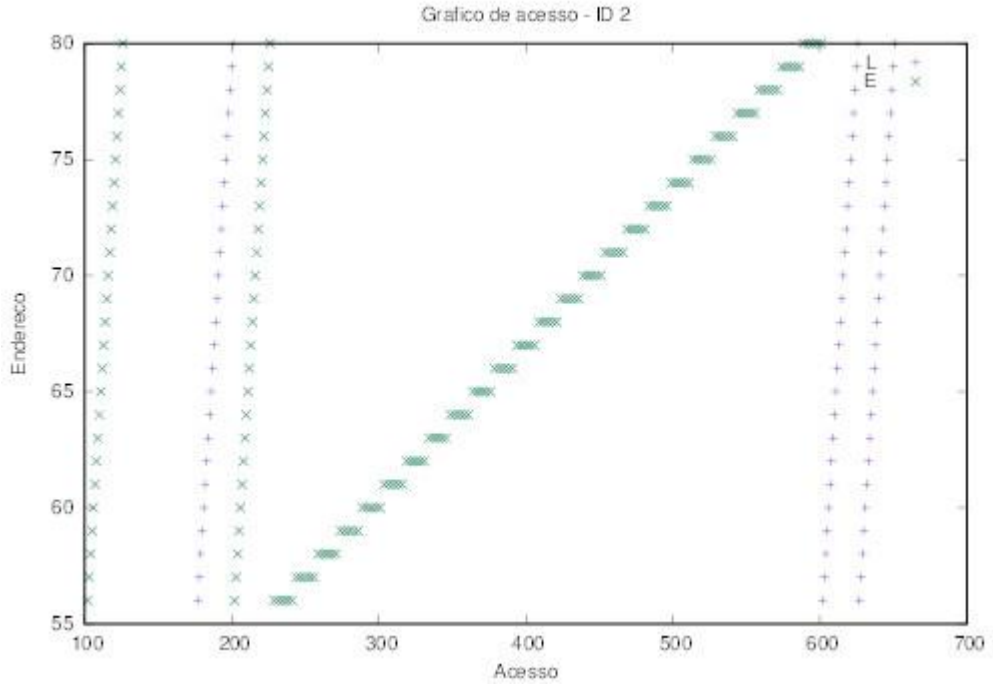
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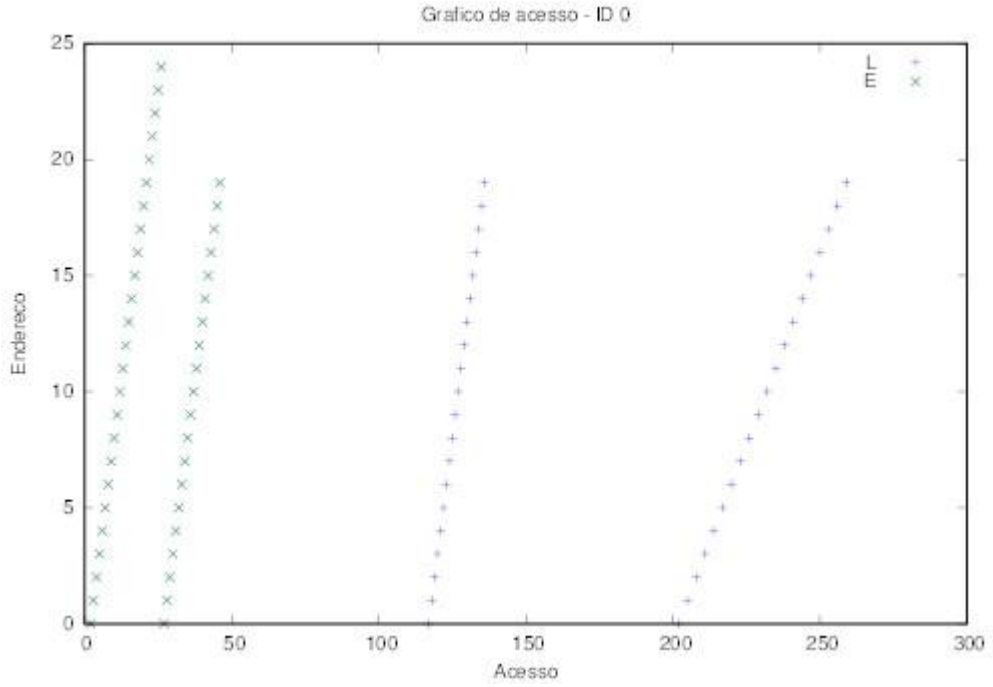
4.1.1.2. Soma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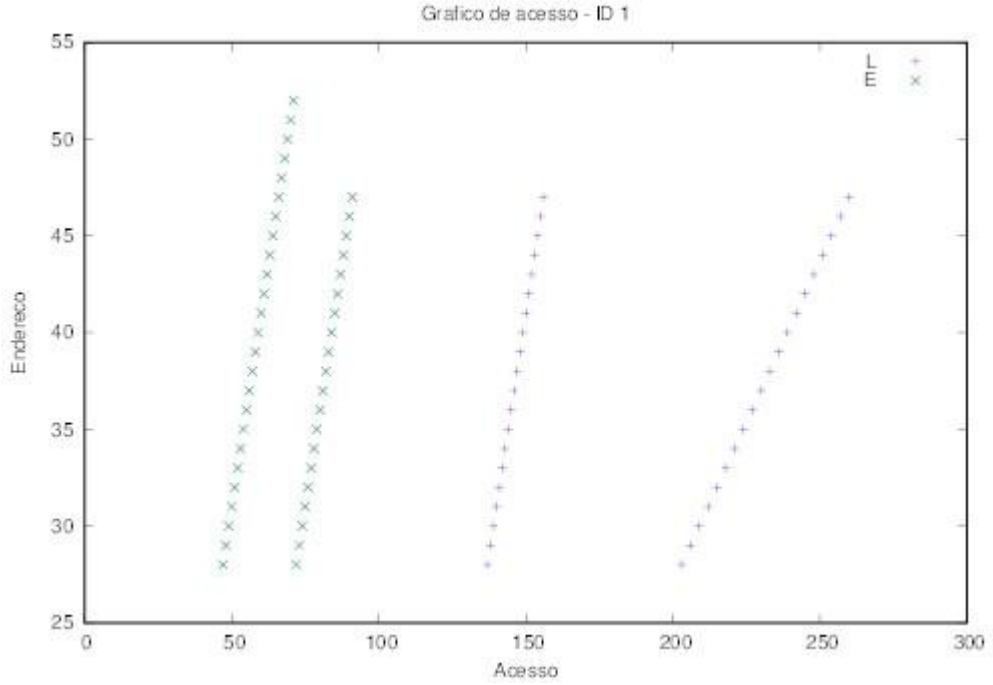
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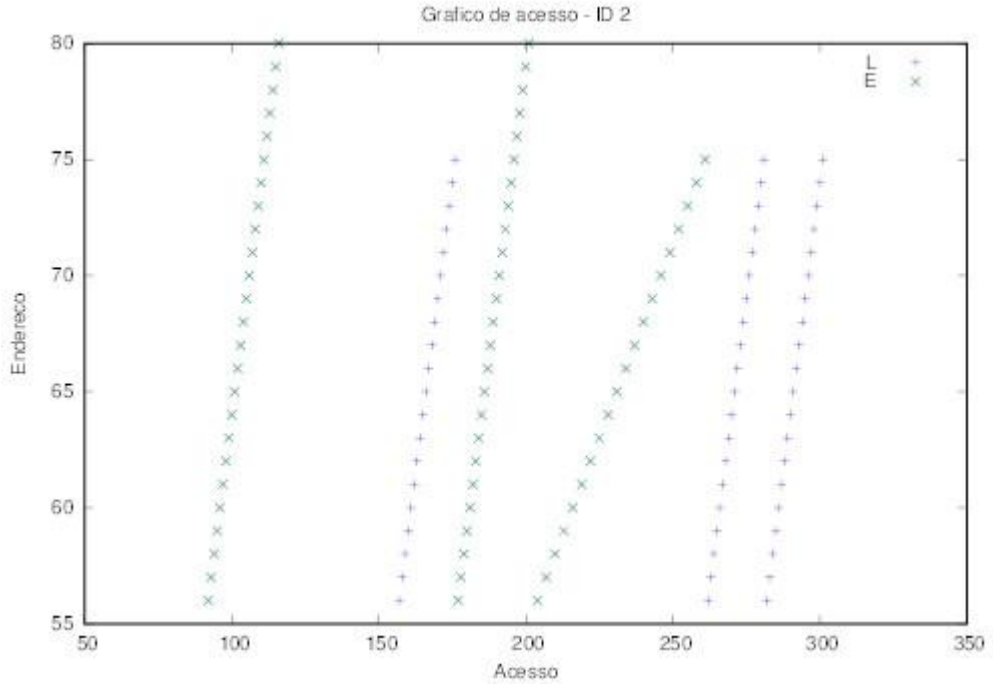

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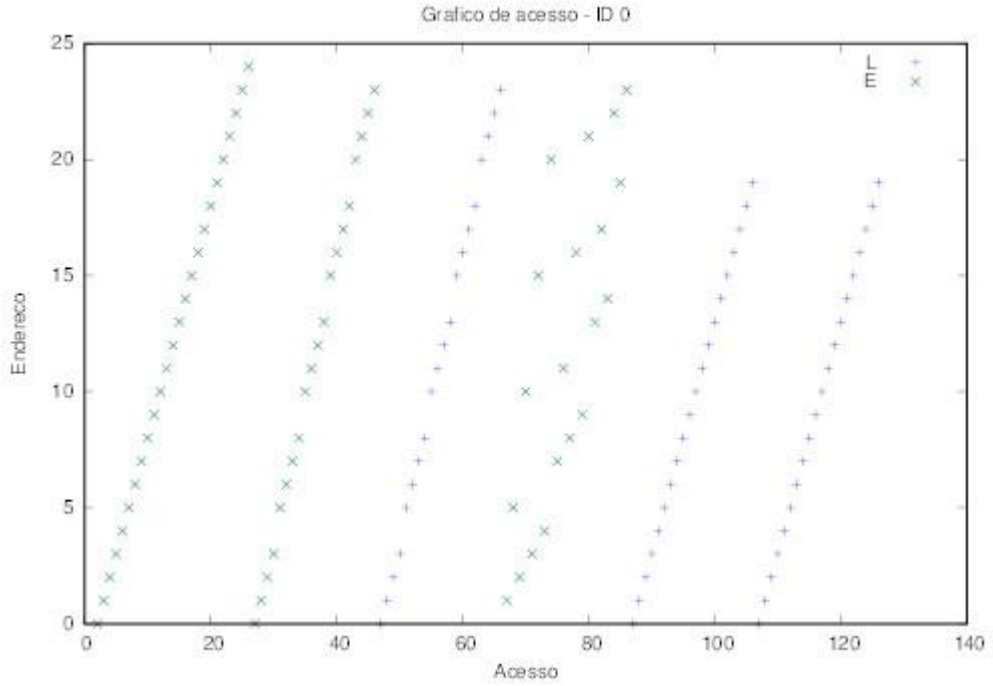
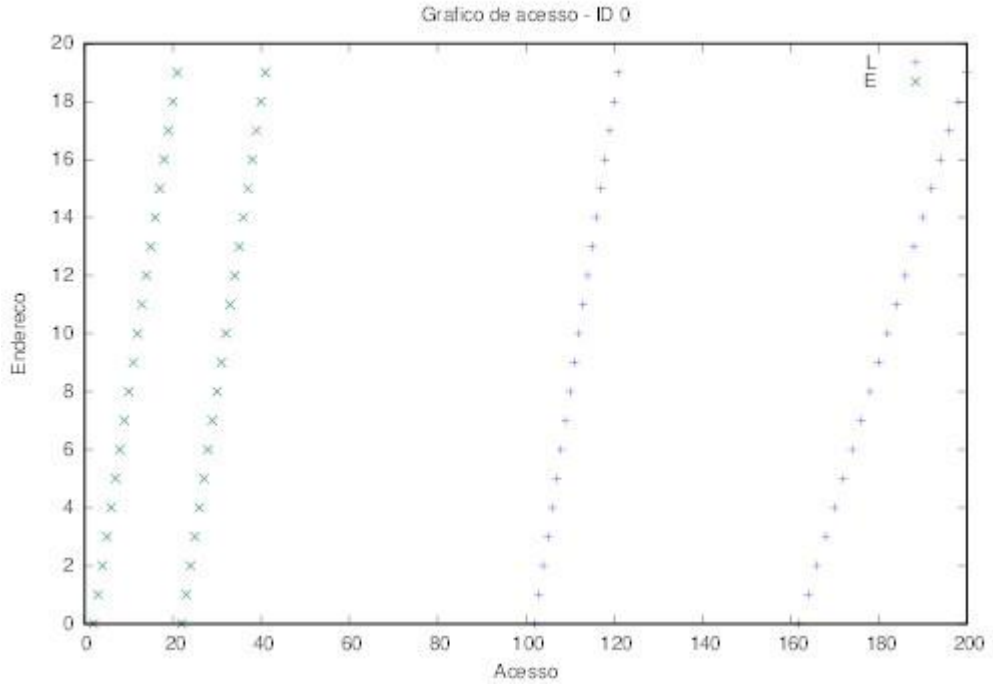


4.1.2. VetorDinamico

4.1.2.1. Produto Interno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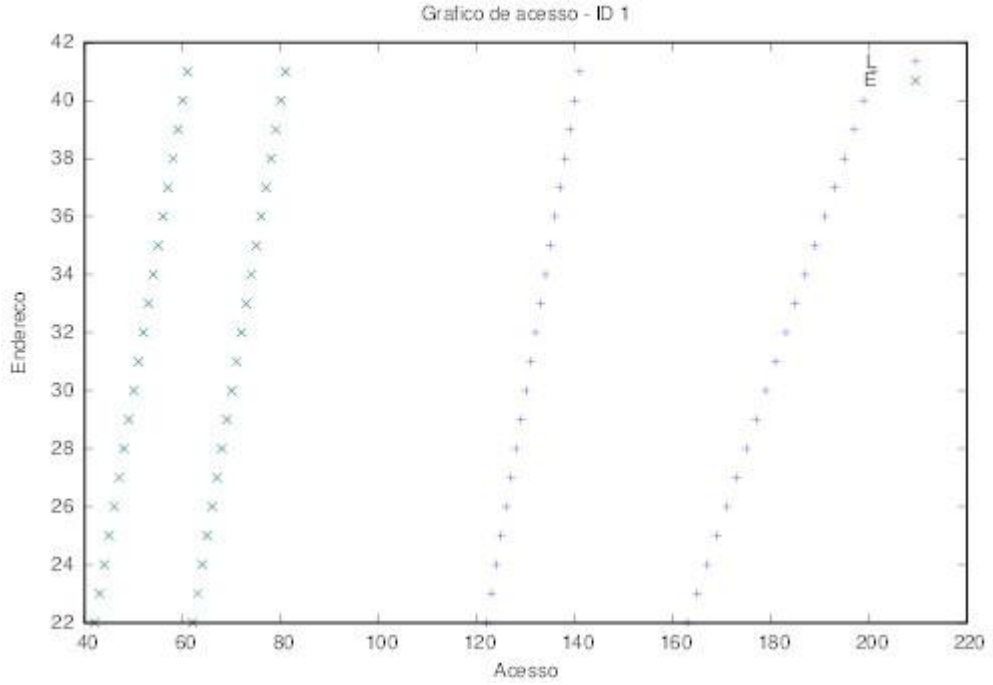
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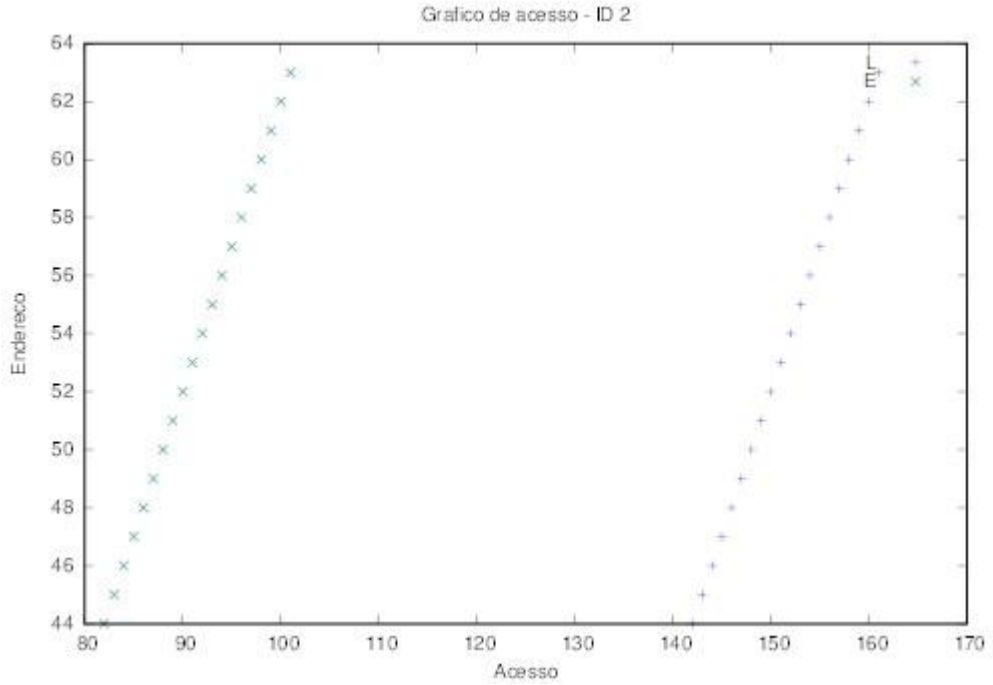
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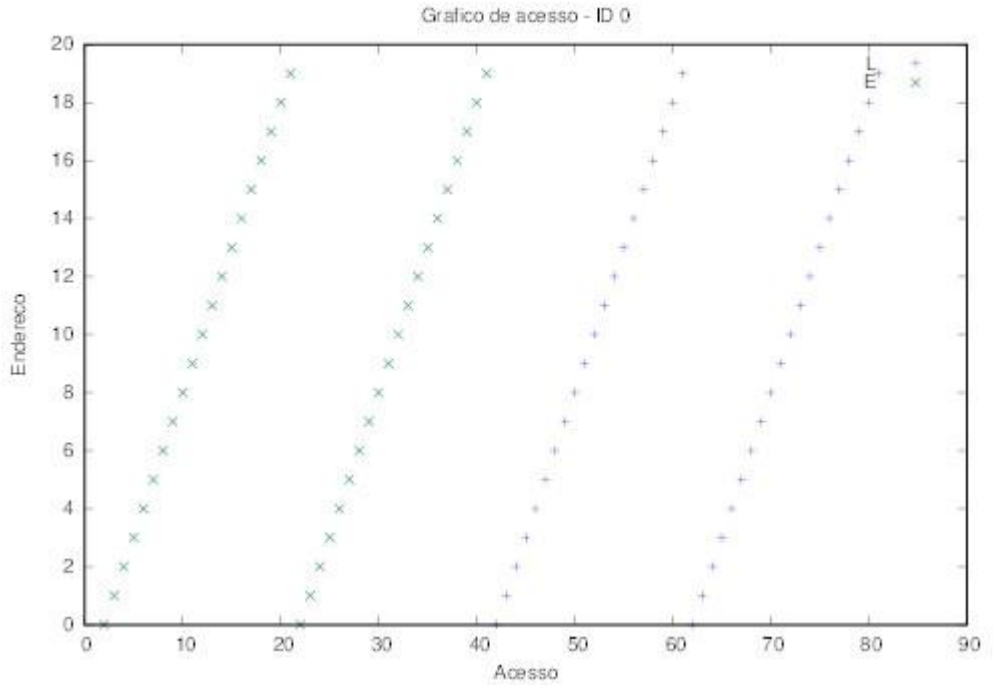
4.1.2.2. Norma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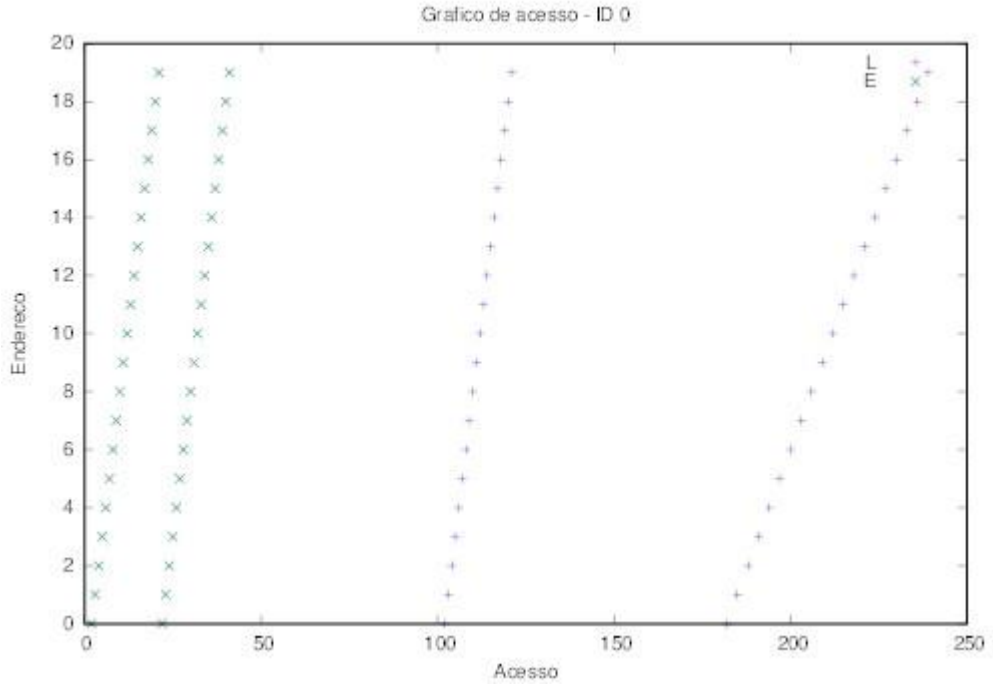
4.1.2.3. Soma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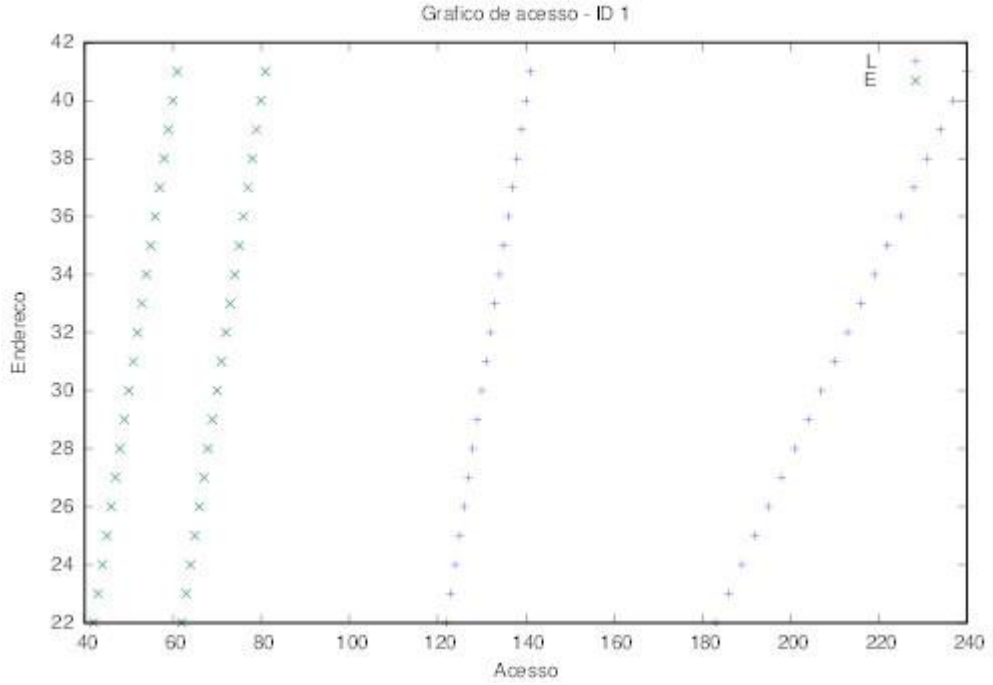
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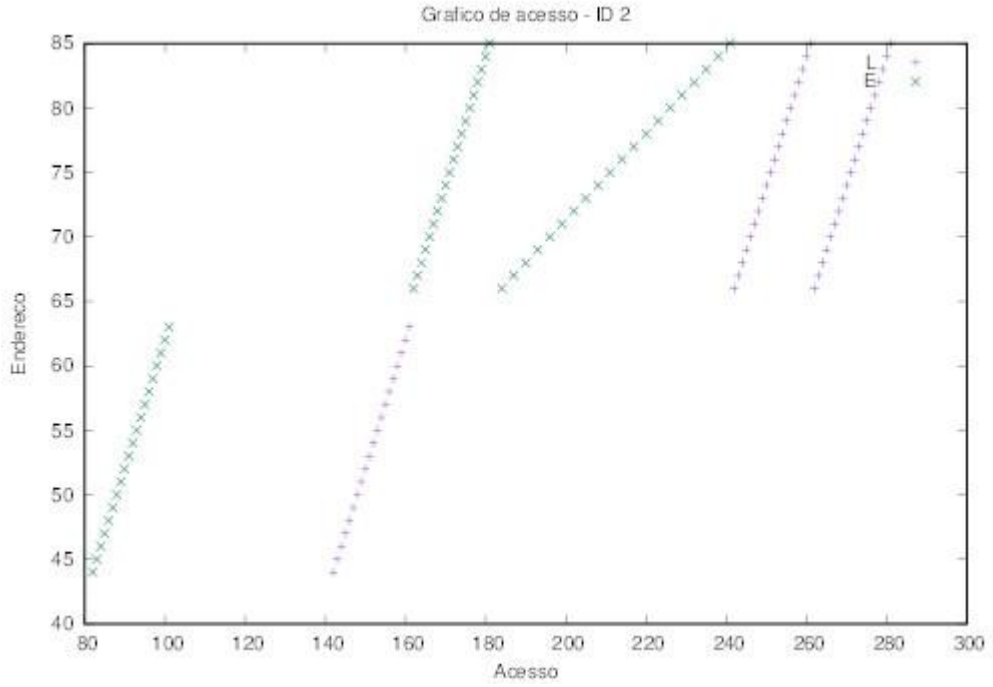
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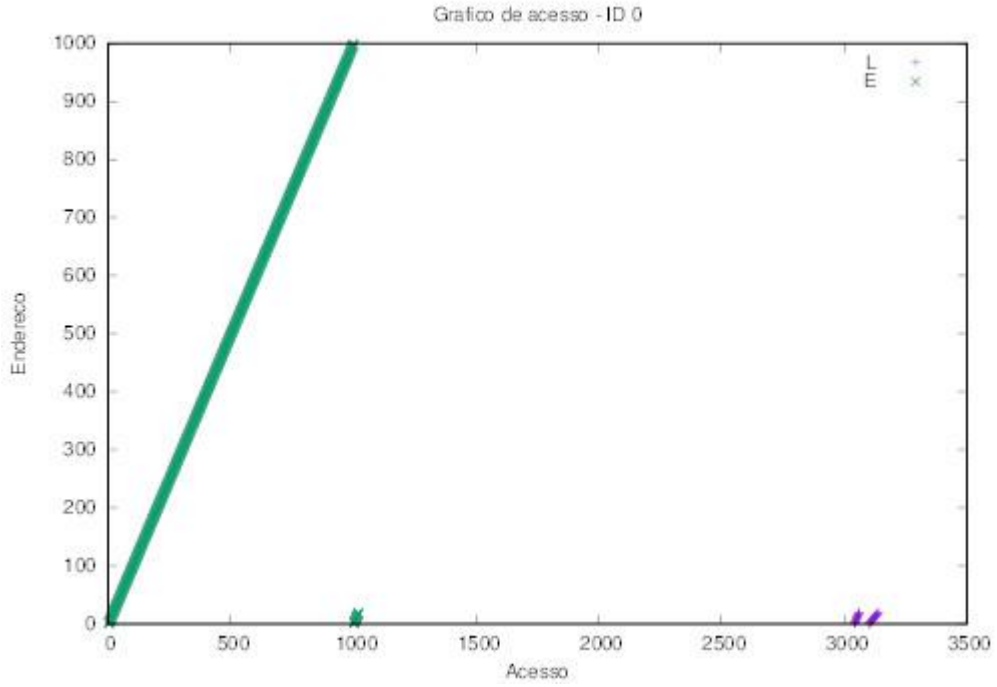
4.1.3. VetorEstatico

4.1.3.1. Produto Interno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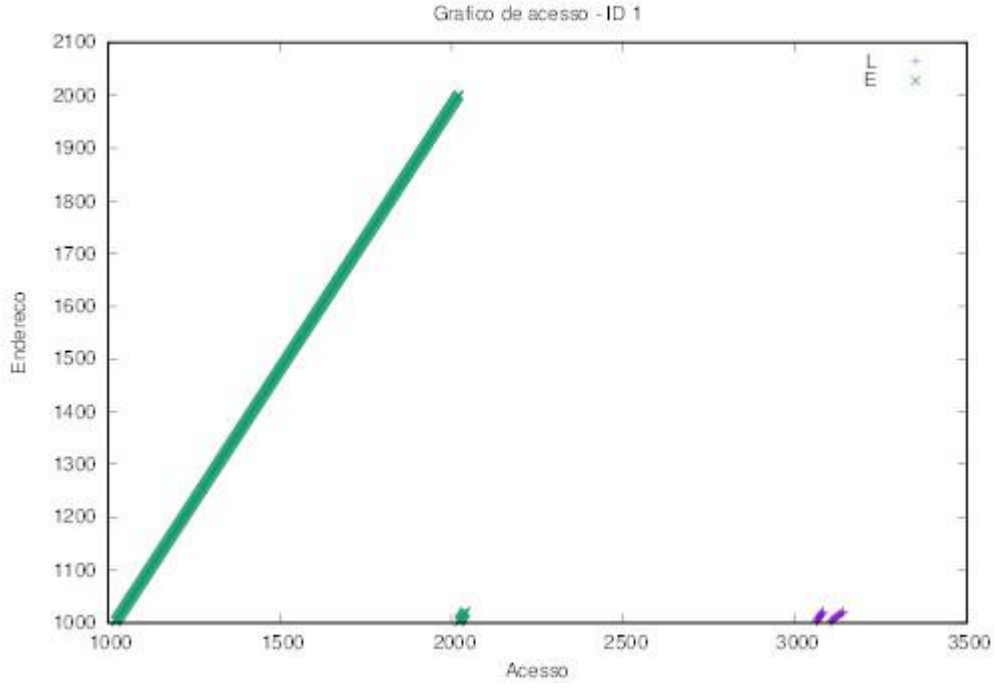
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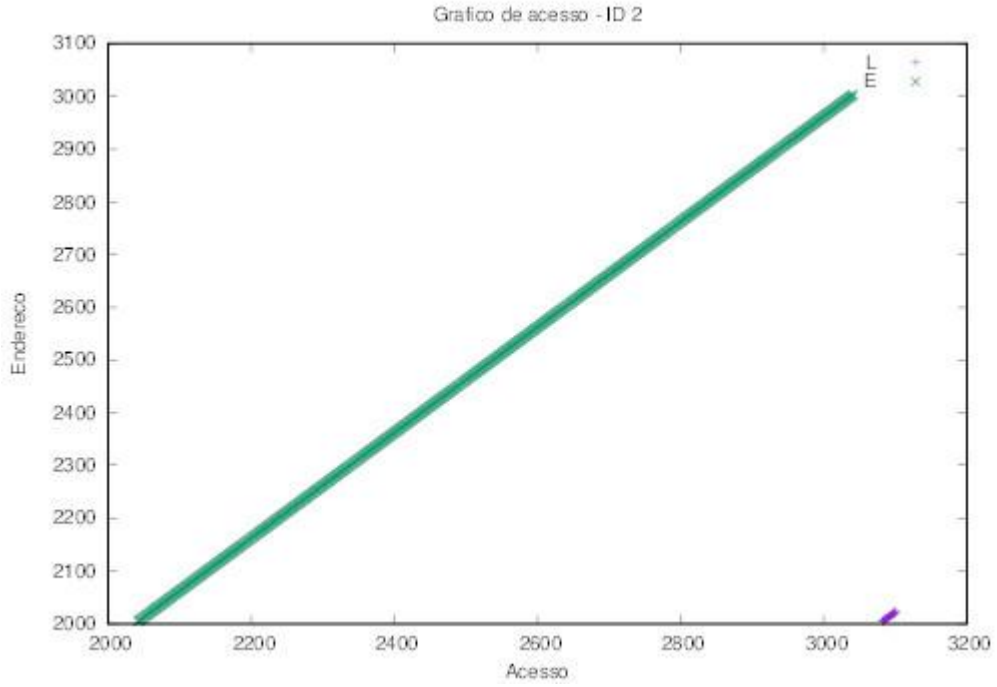
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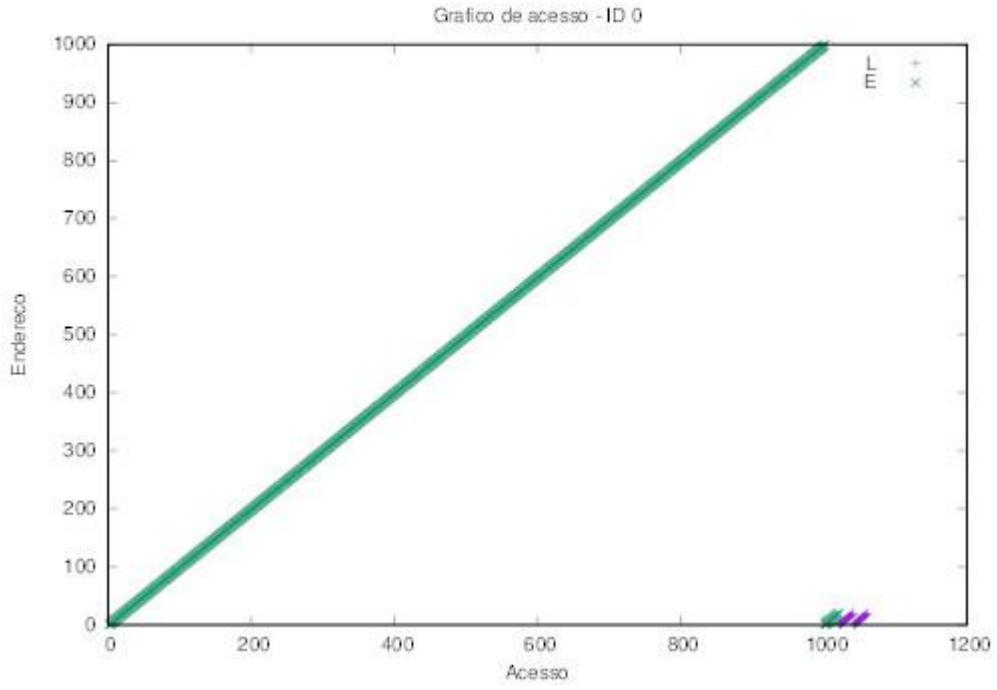
4.1.3.2. Norma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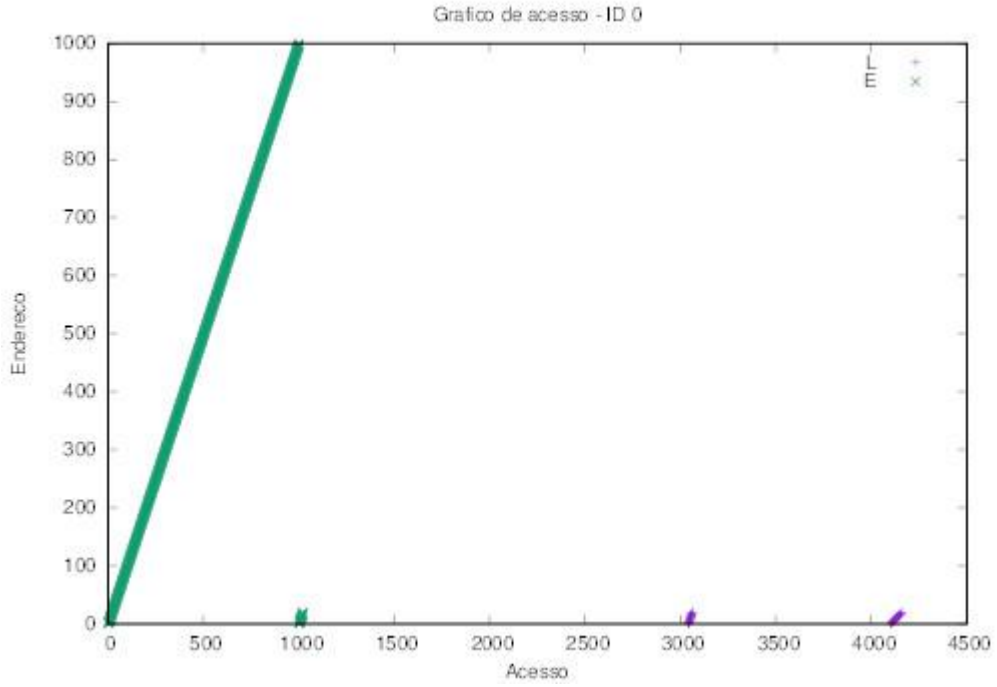
4.1.3.3. Soma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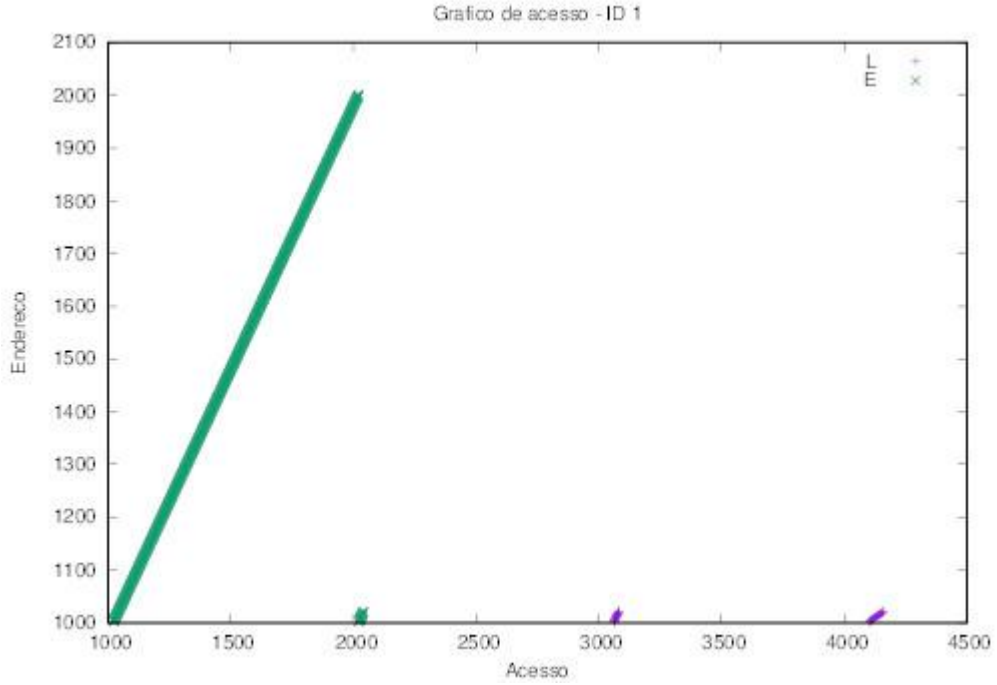
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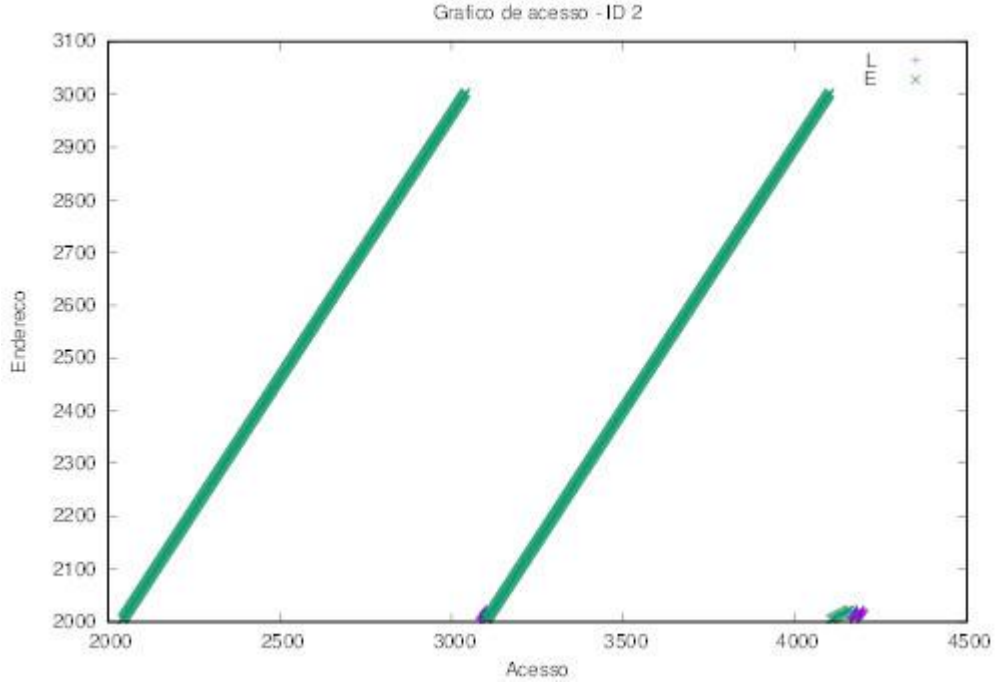
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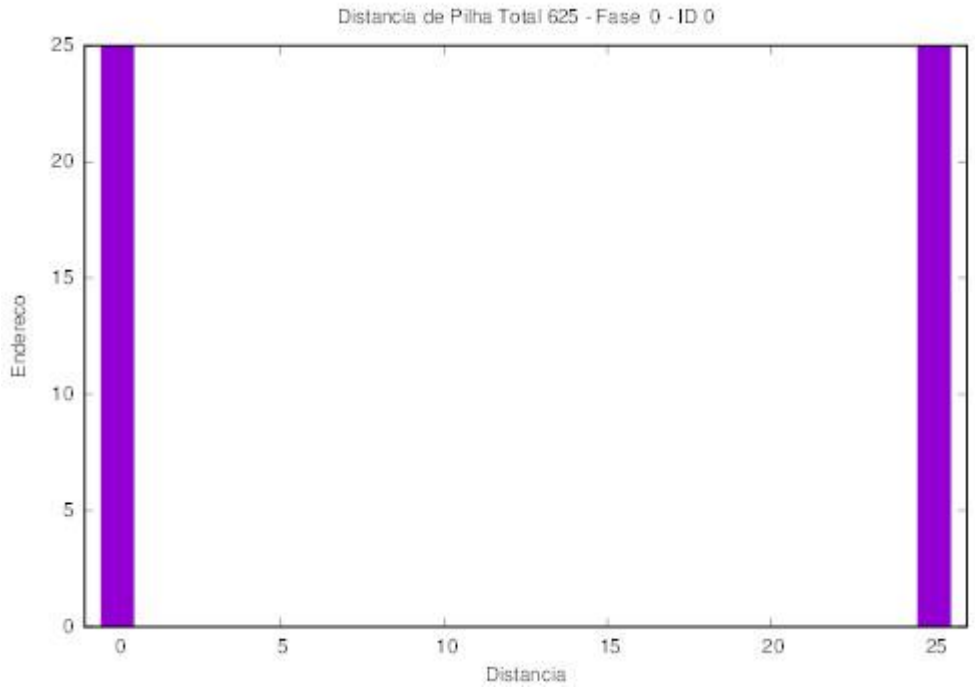
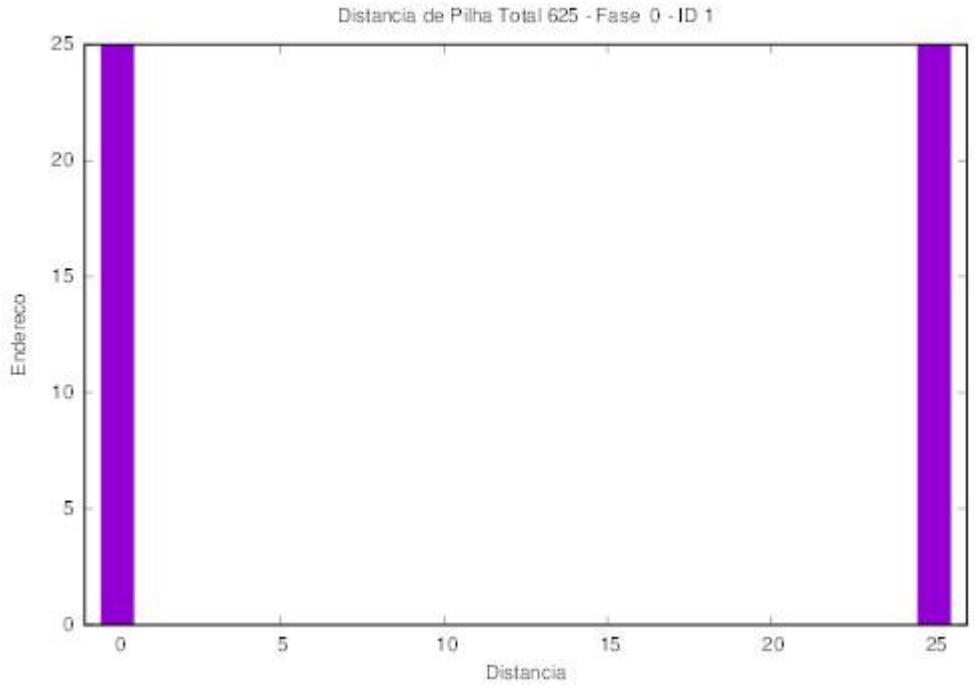
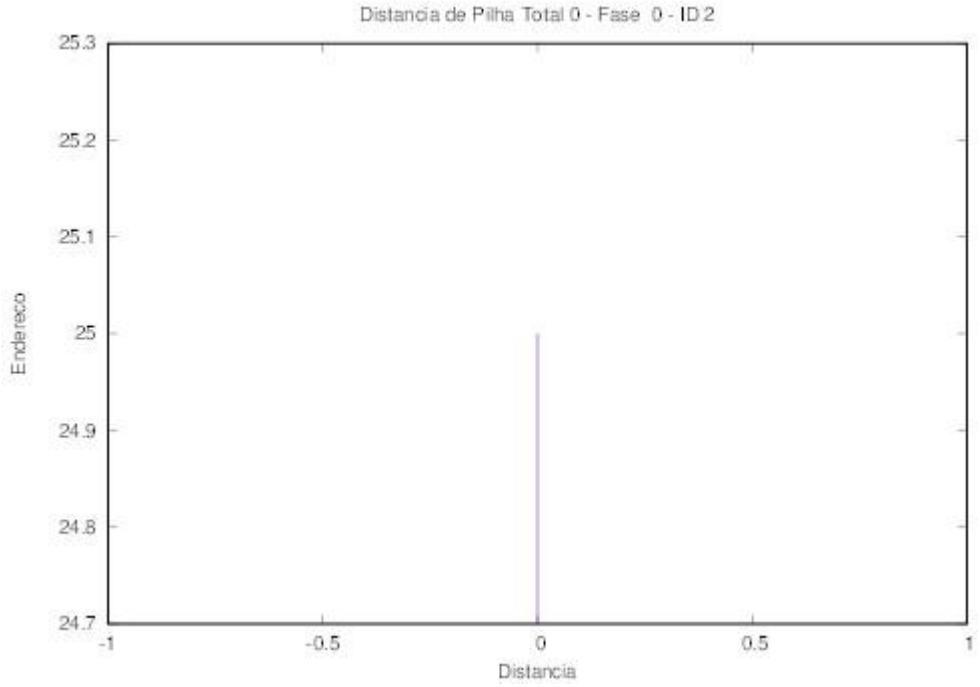
4.2. Distância de pilha

4.2.1. AnaliseMemoria

4.2.1.1. Multiplicação



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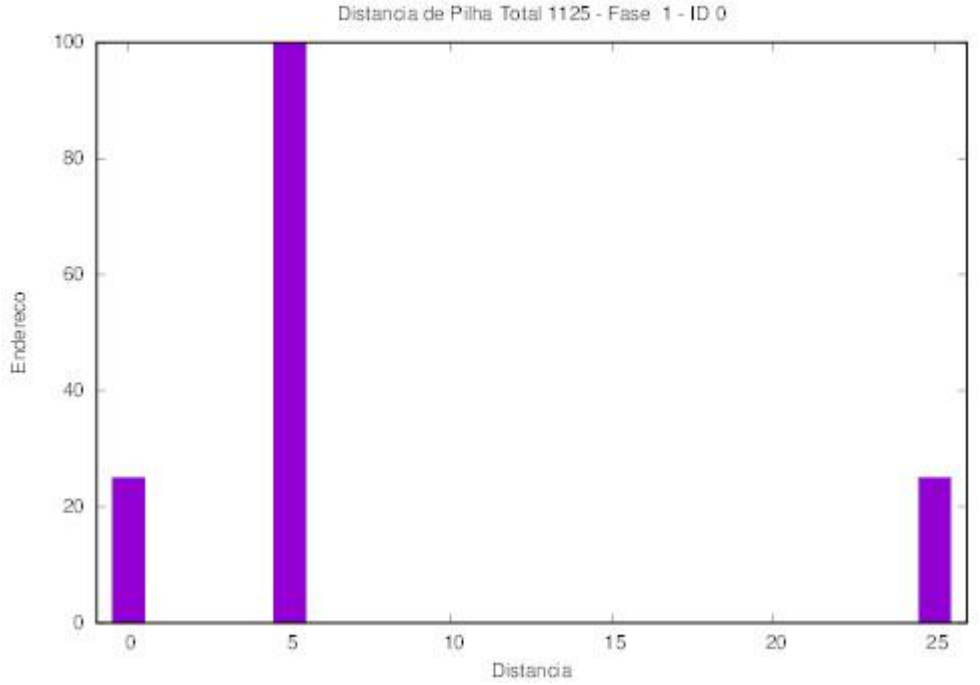
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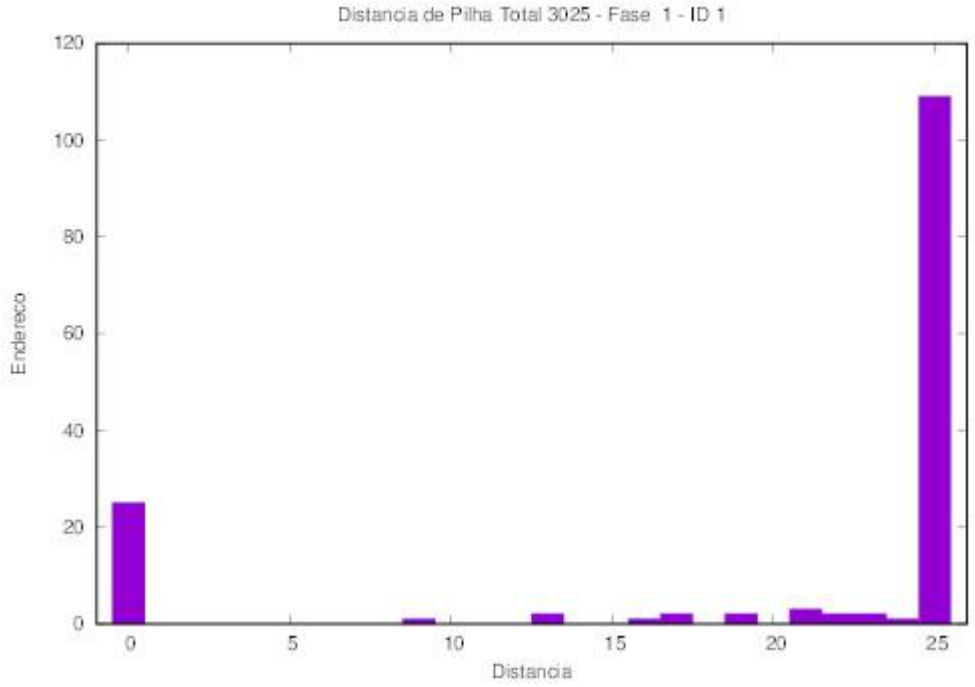
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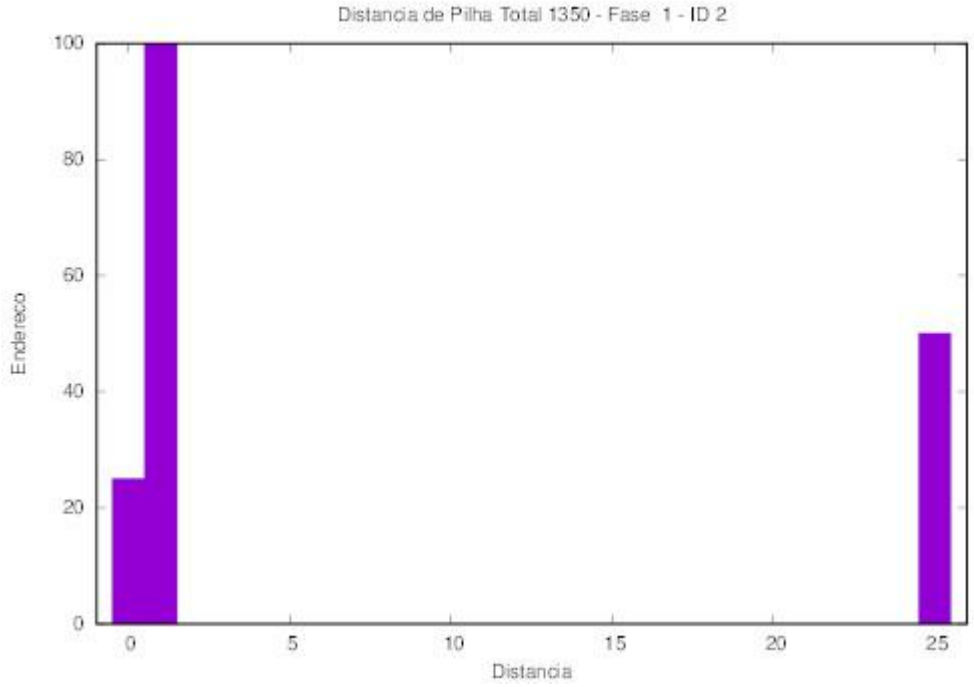
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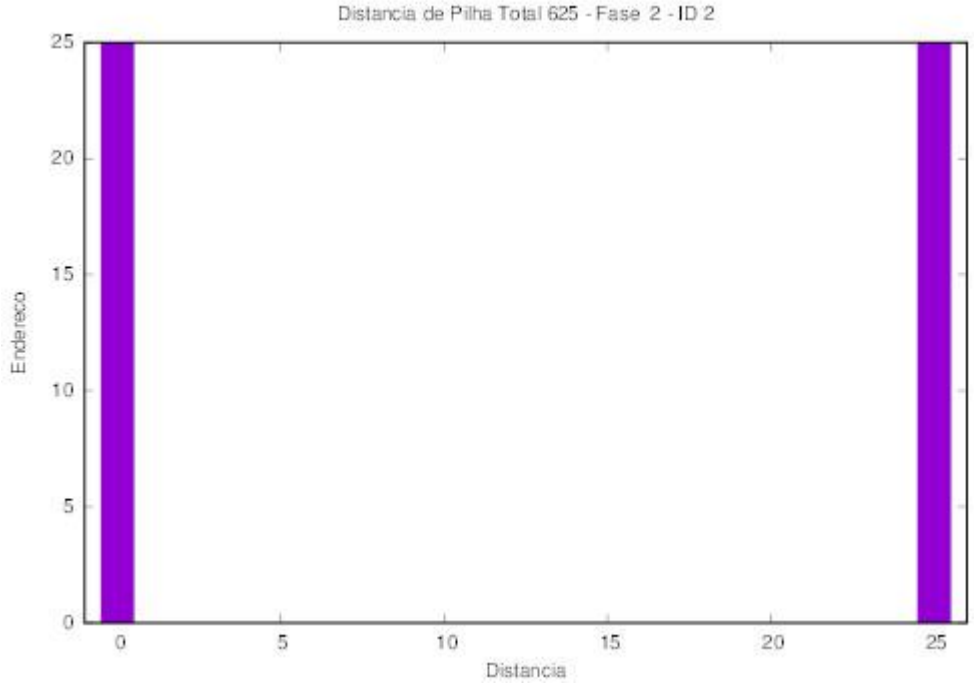
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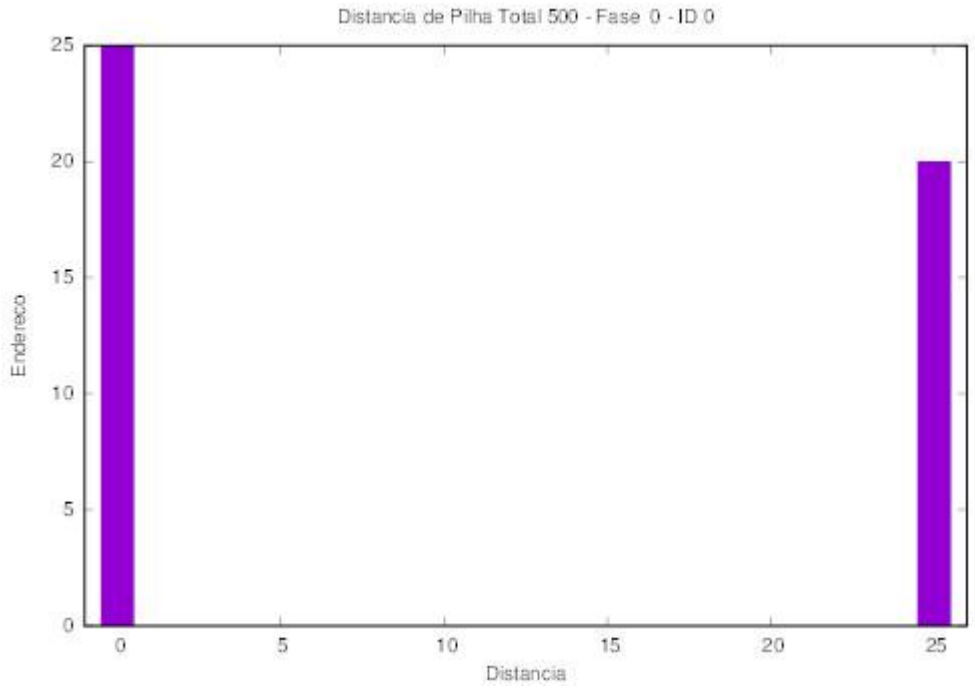
4.2.1.2. Soma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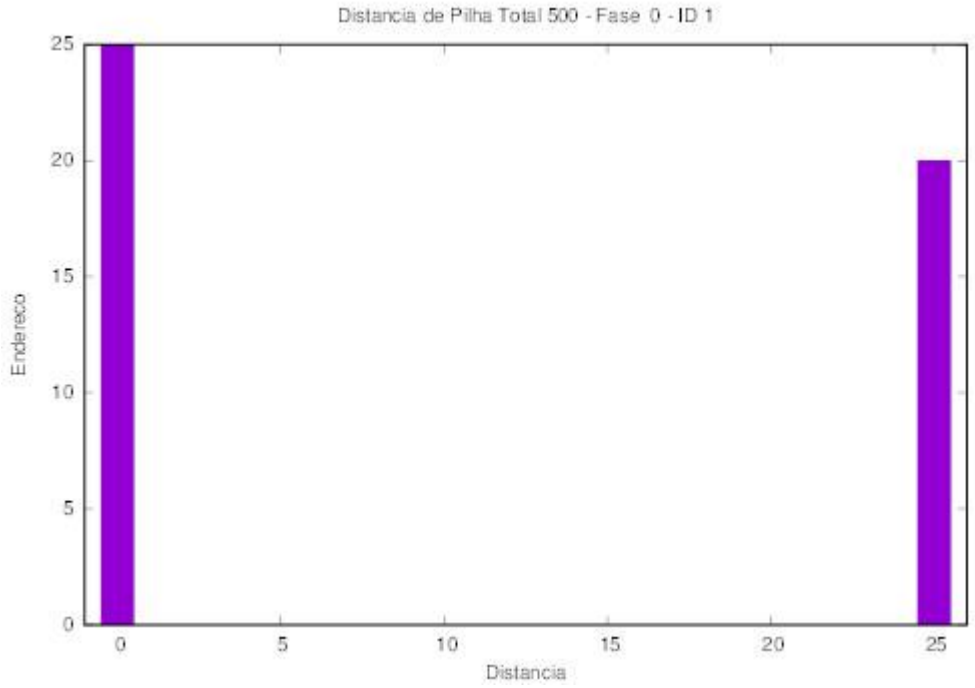
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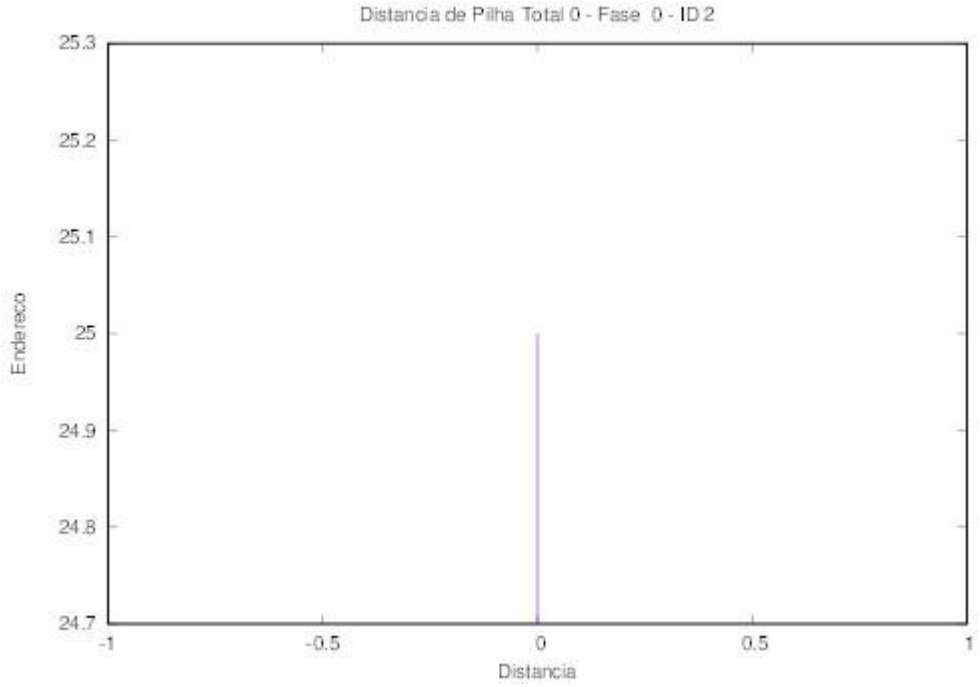
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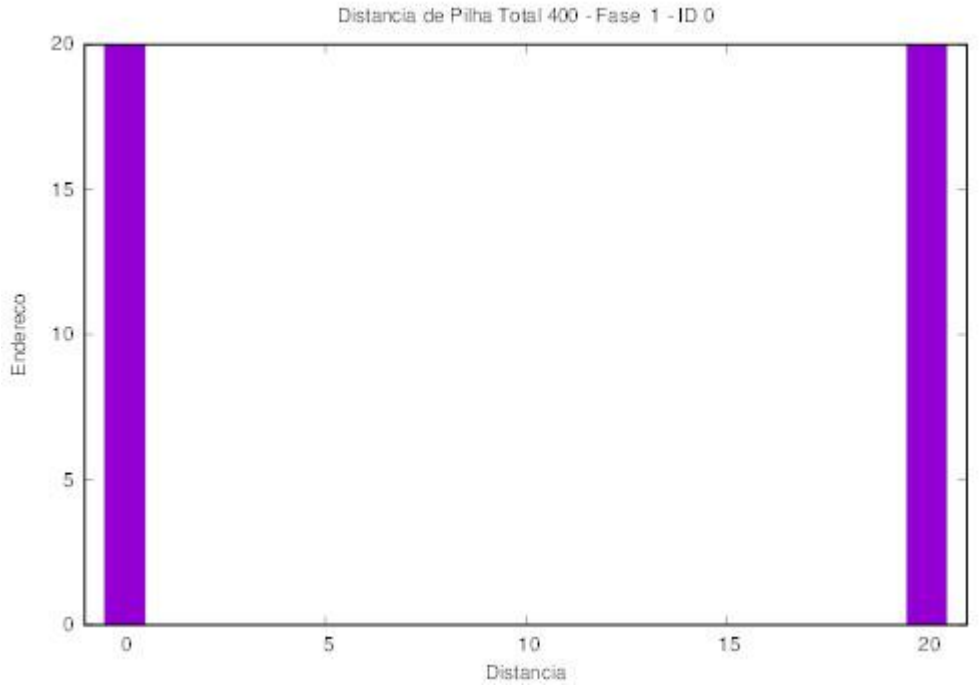
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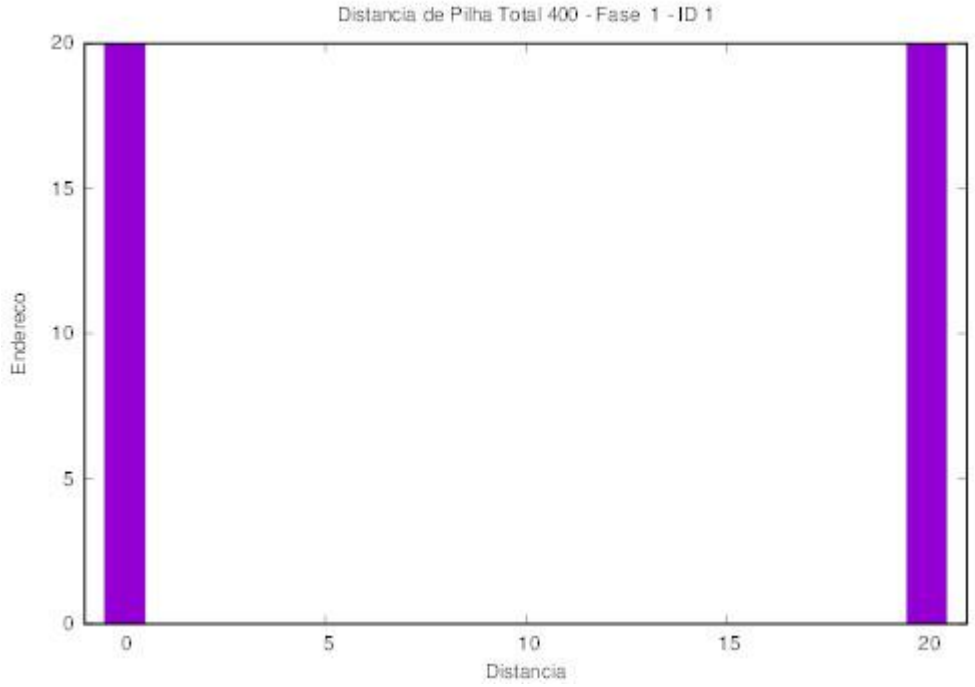
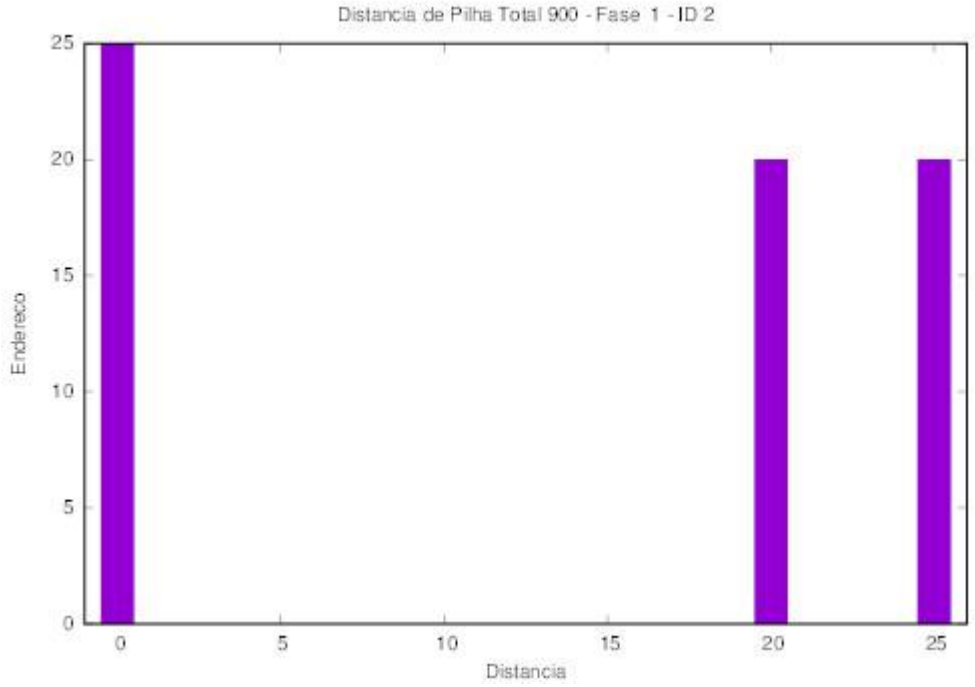
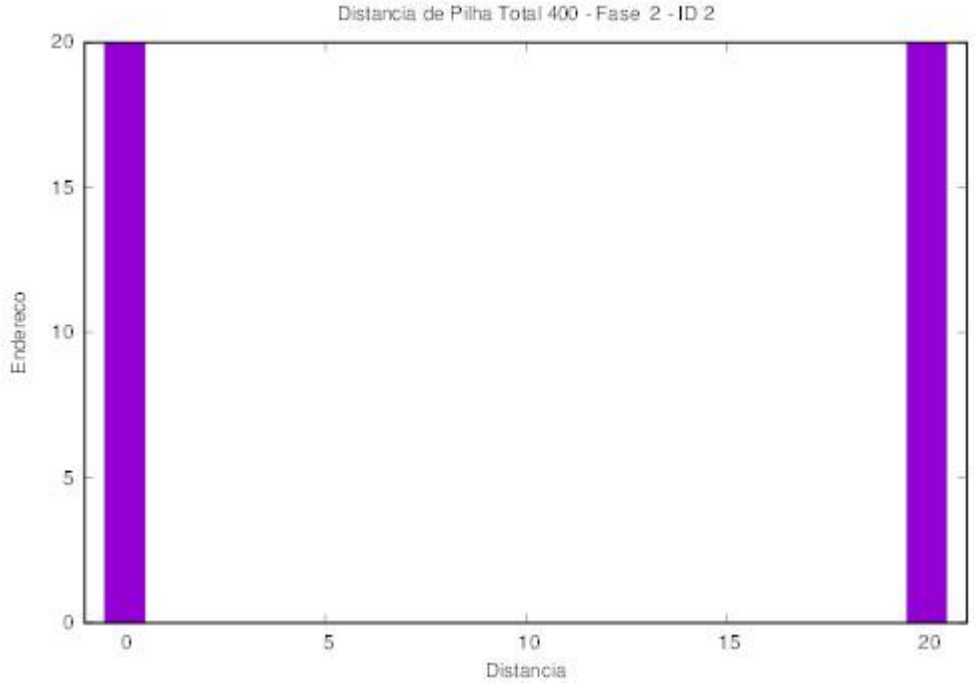
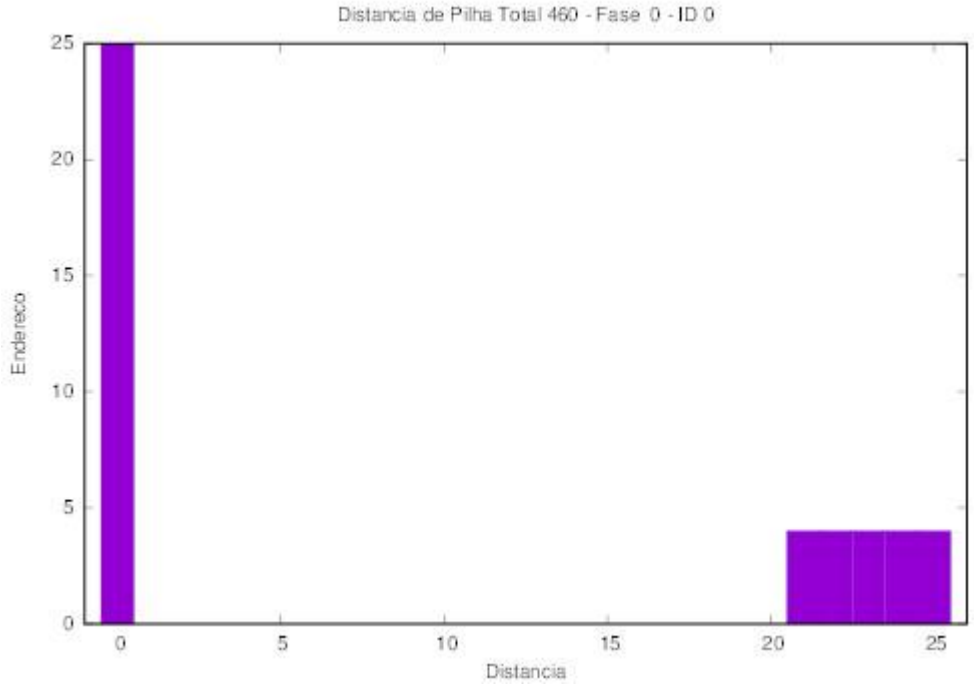
15
20

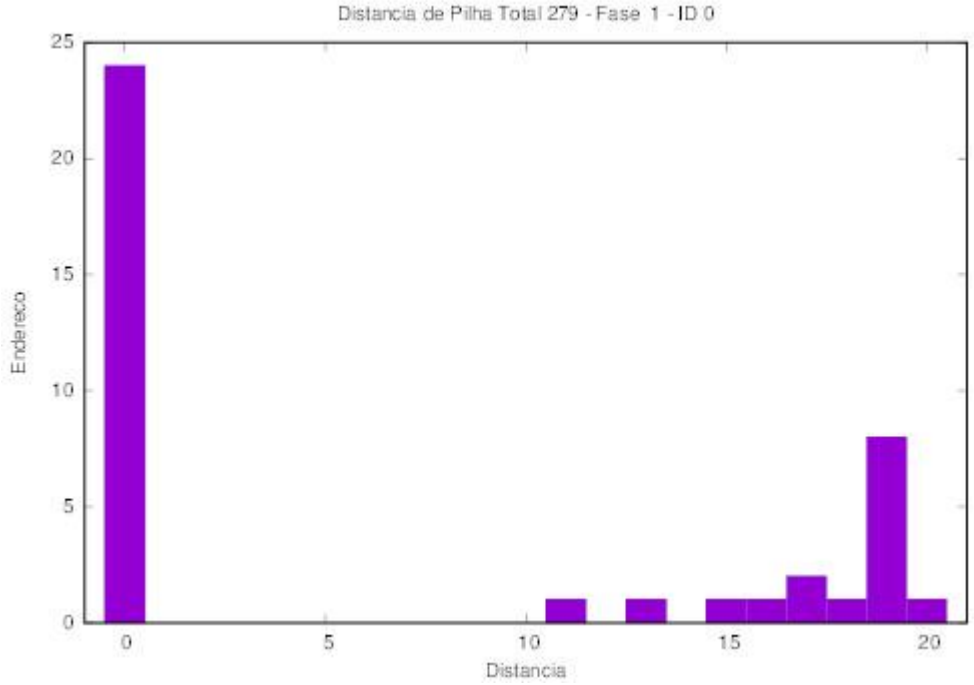

Distancia de Pilha Total 400 - Fase 1 - ID 1
Endereco
Distancia
0
5
10
15
20

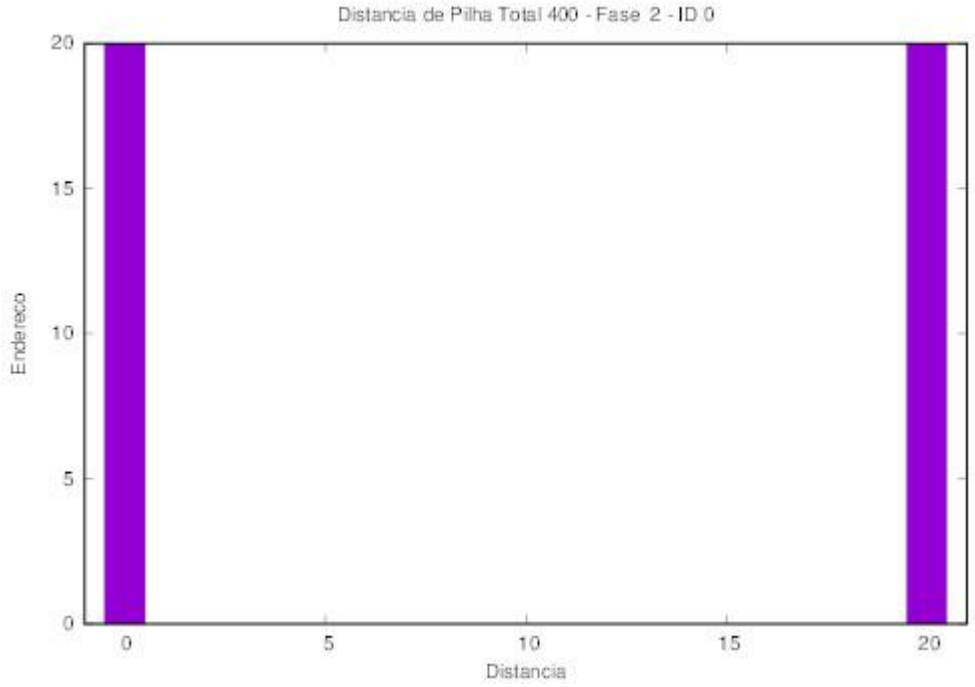

Distancia de Pilha Total 900 - Fase 1 - ID 2
Endereco
Distancia
0
5
10
15
20
25


Distancia de Pilha Total 400 - Fase 2 - ID 2
Endereco
Distancia
0
5
10
15
20

4.2.1.3. Transposto

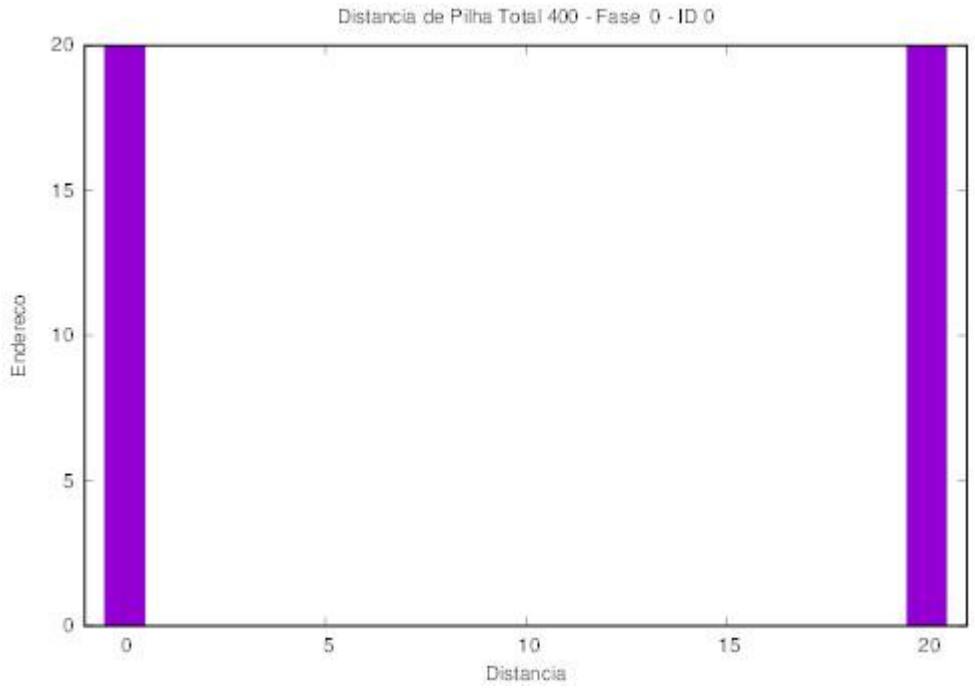

Distancia de Pilha Total 460 - Fase 0 - ID 0
Endereco
Distancia
0
5
10
15
20
25

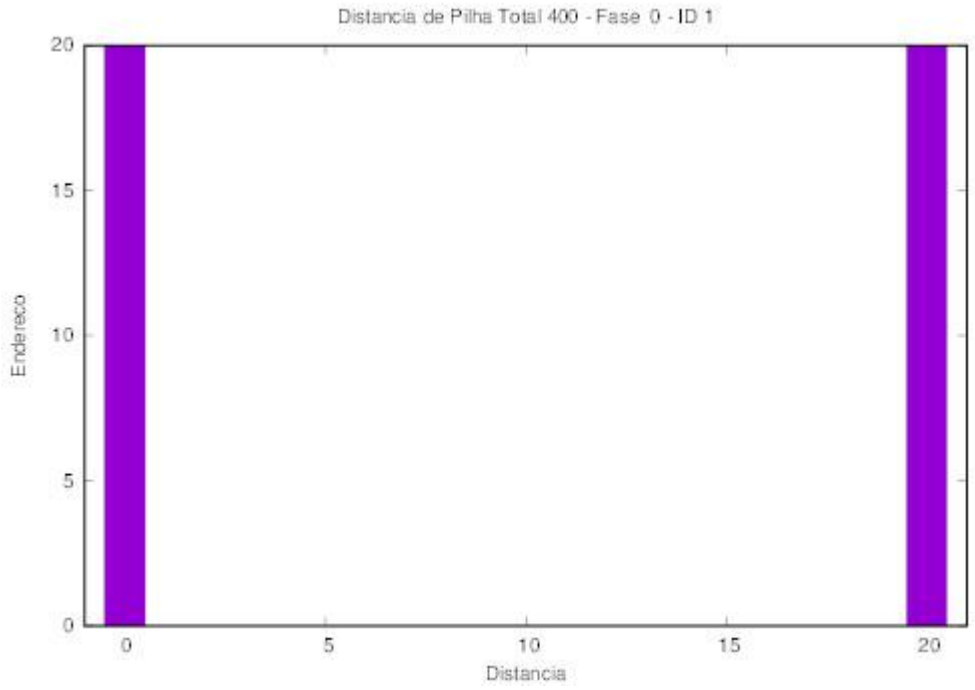

Distancia de Pilha Total 279 - Fase 1 - ID 0
Endereco
Distancia
0
5
10
15
20
25

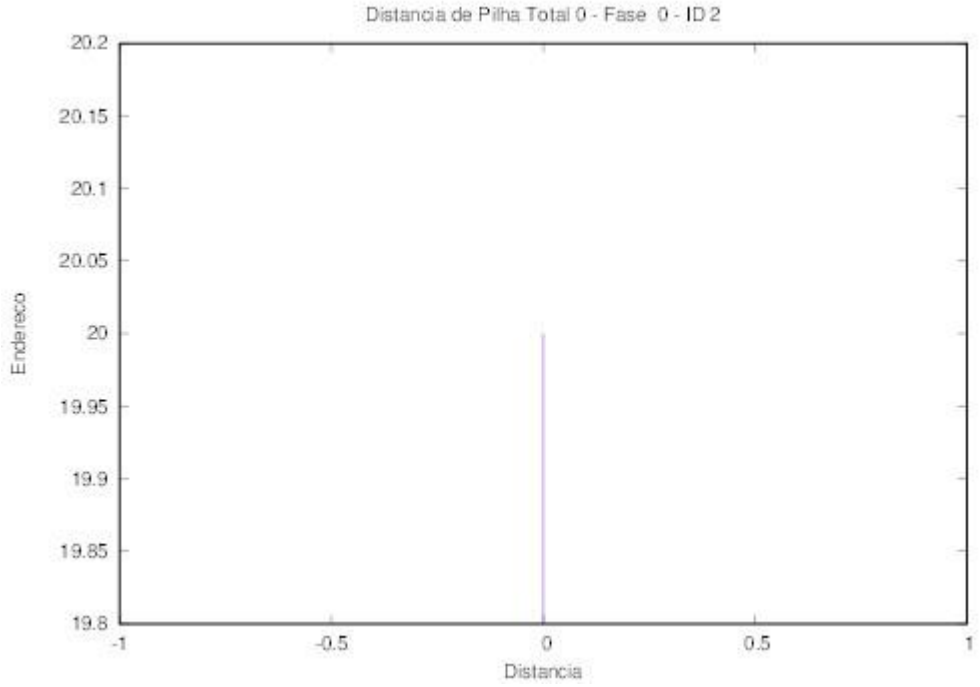

Distancia de Pilha Total 400 - Fase 2 - ID 0
Endereco
Distancia
0
5
10
15
20

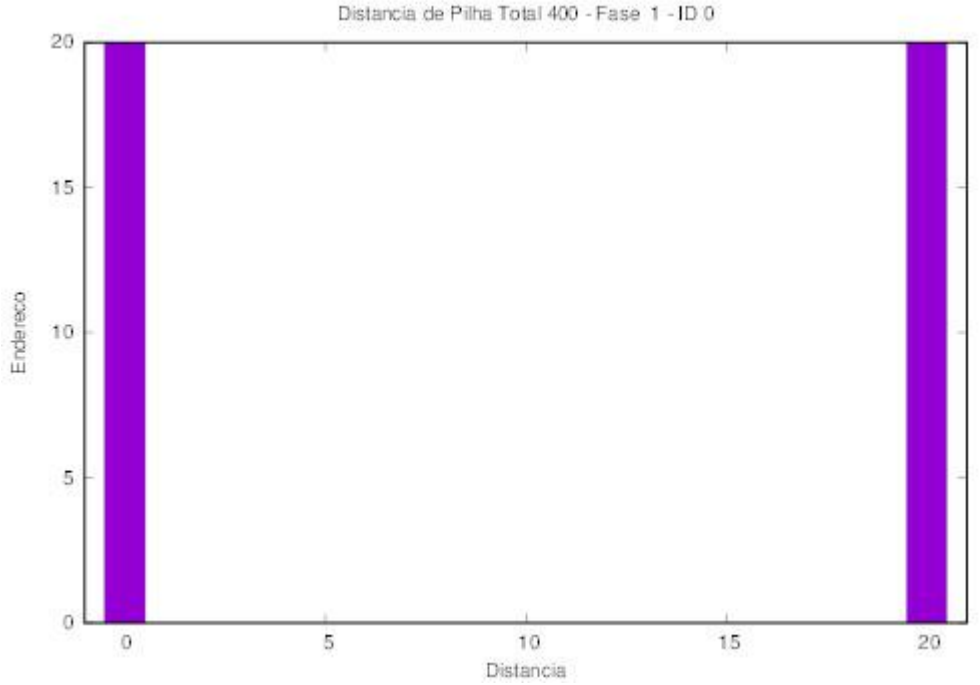
4.2.2. VetorDinamico

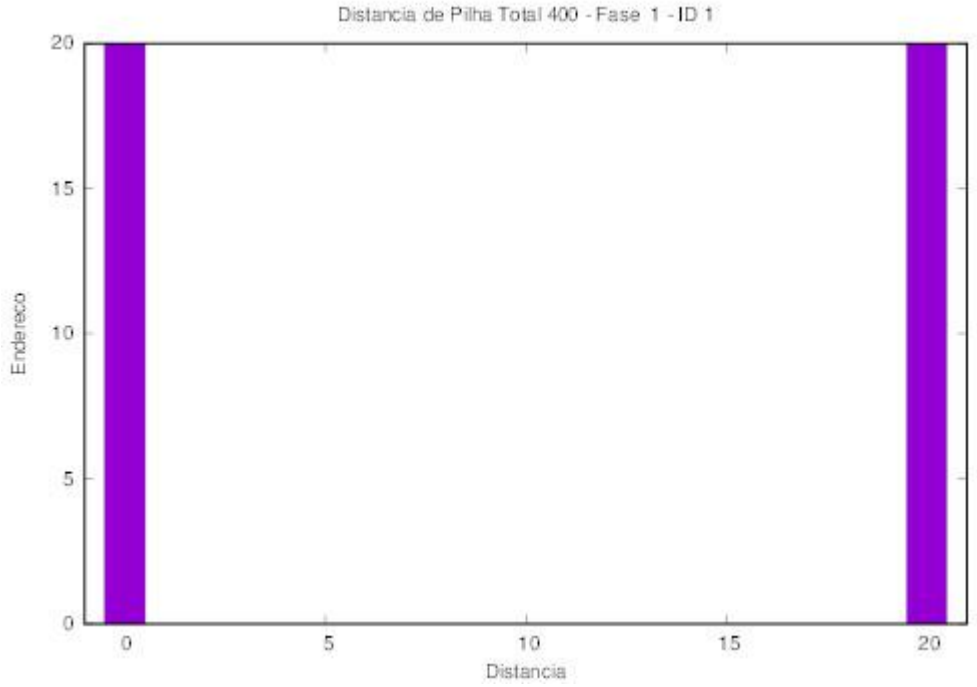
4.2.2.1. Produto Interno

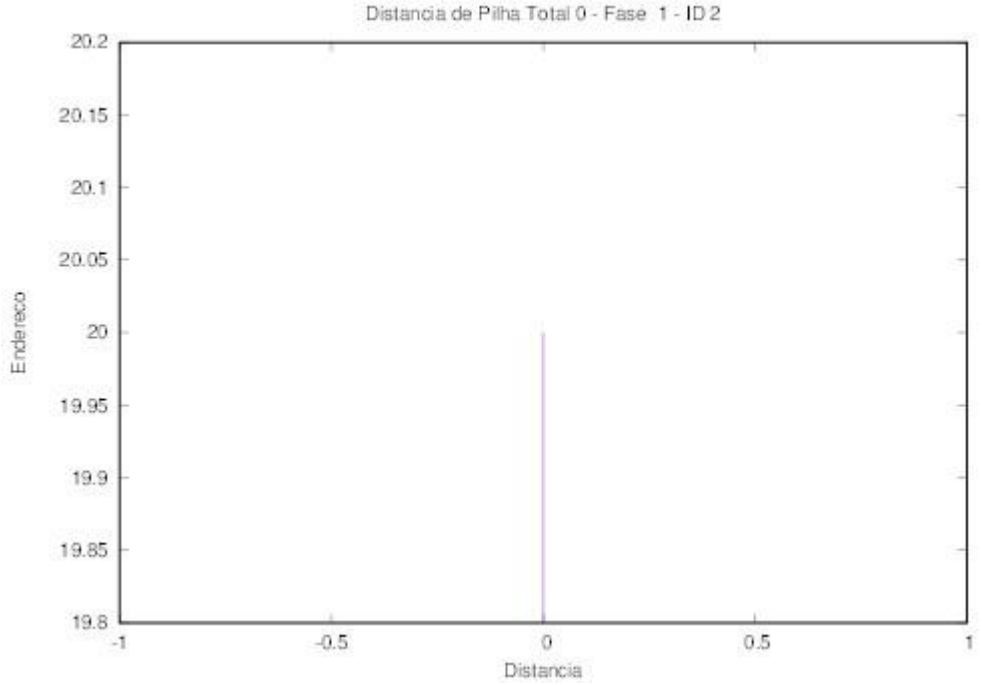




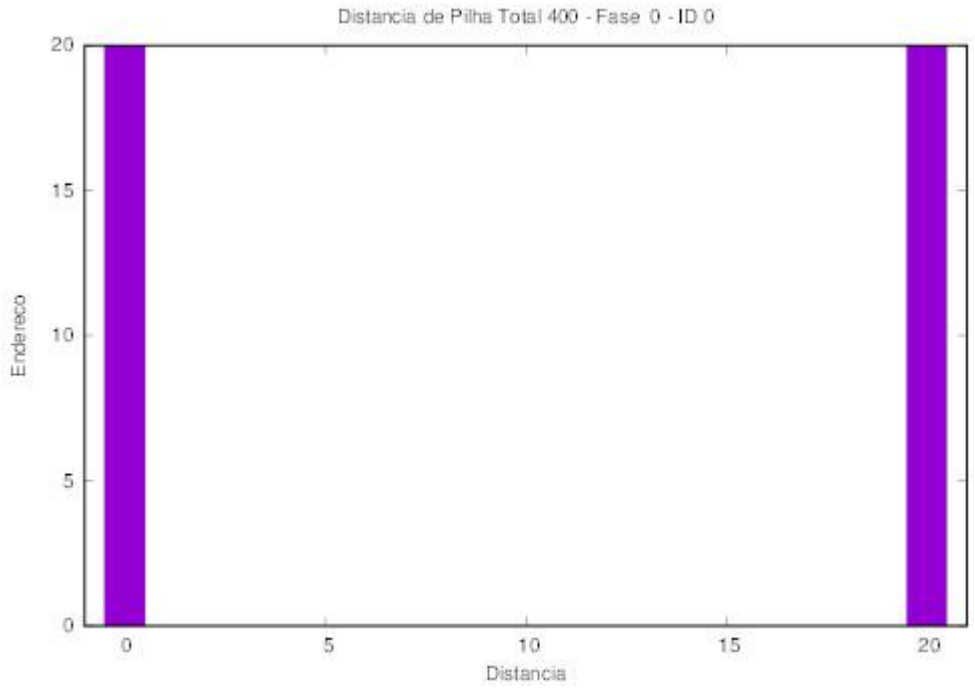

Distancia de Pilha Total 0 - Fase 0 - ID 2
Endereco
Distancia
20.2
20.15
20.1
20.05
20
19.95
19.9
19.85
19.8
-1
-0.5
0
0.5
1

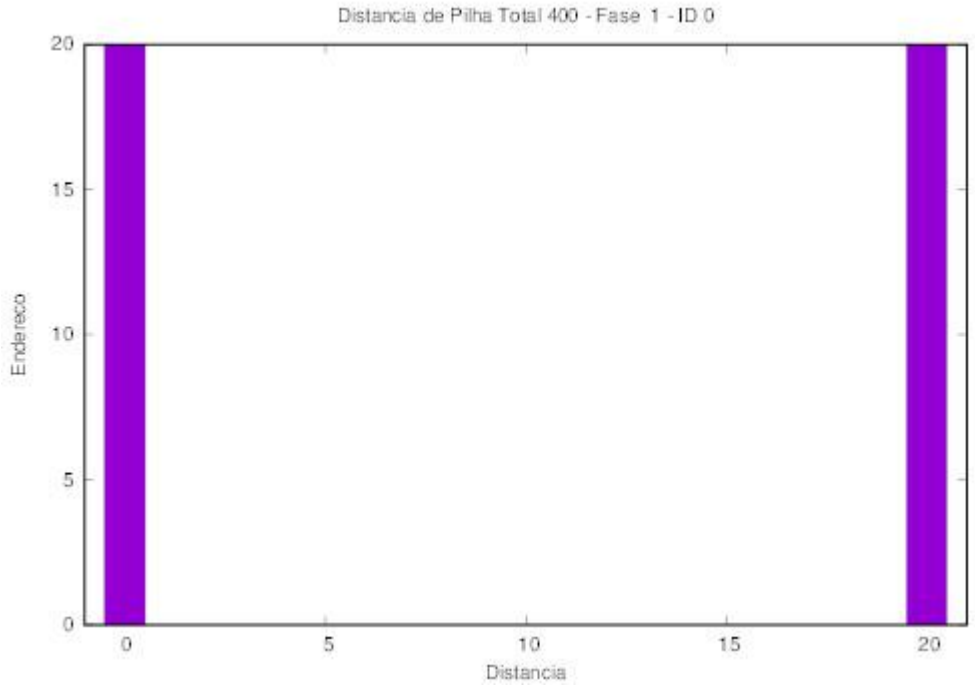

Distancia de Pilha Total 400 - Fase 1 - ID 0
Endereco
Distancia
20
15
10
5
0
0
5
10
15
20


Distancia de Pilha Total 400 - Fase 1 - ID 1
Endereco
Distancia
0
5
10
15
20

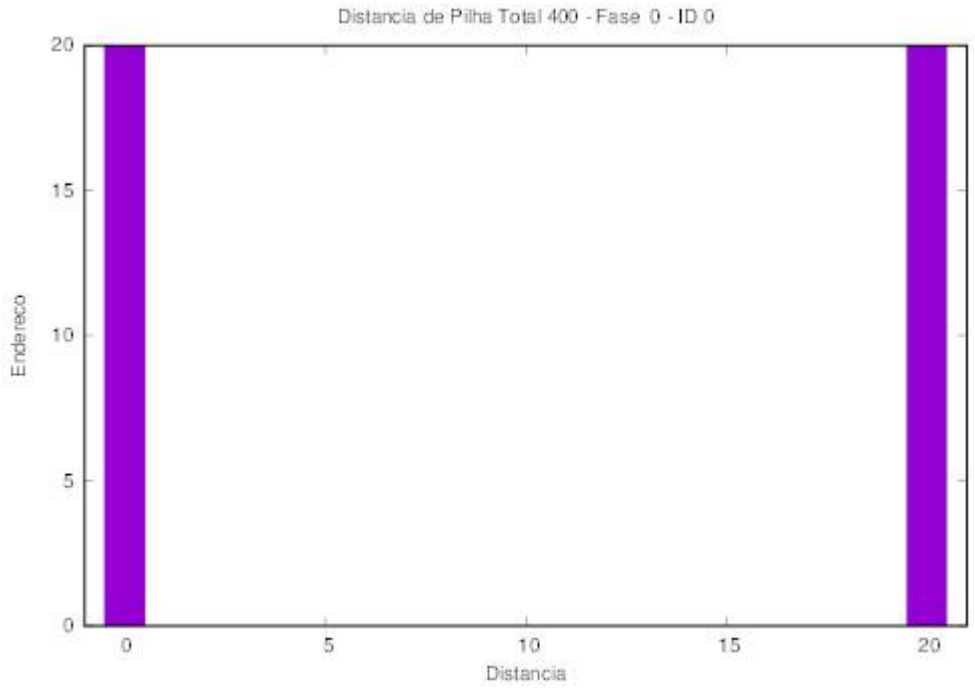

Distancia de Pilha Total 0 - Fase 1 - ID 2
Endereco
Distancia
20.2
20.15
20.1
20.05
20
19.95
19.9
19.85
19.8
-1
-0.5
0
0.5
1

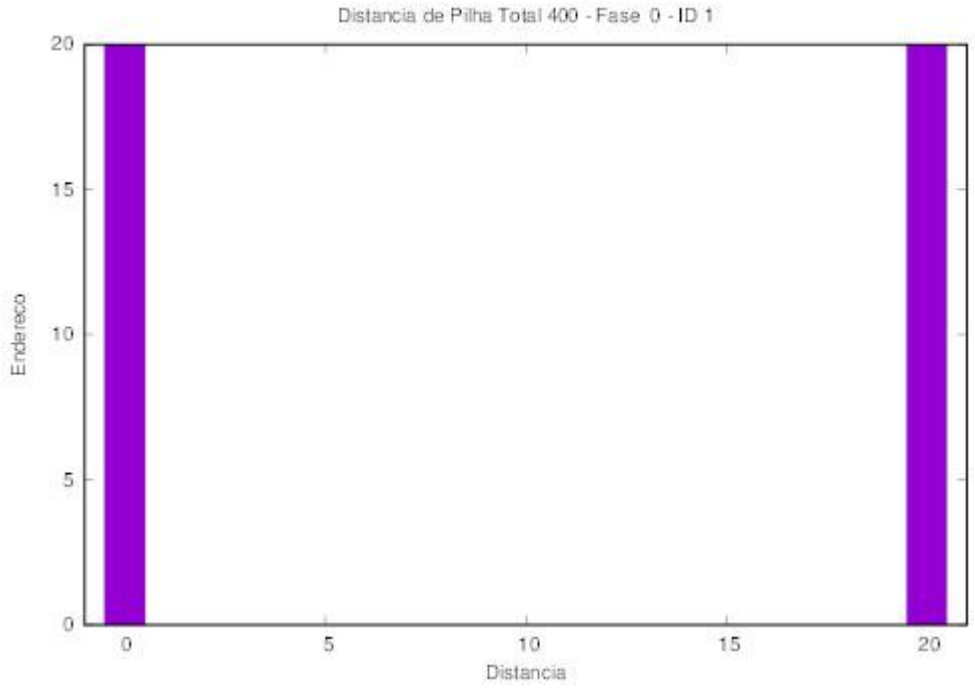
4.2.2.2. Norma

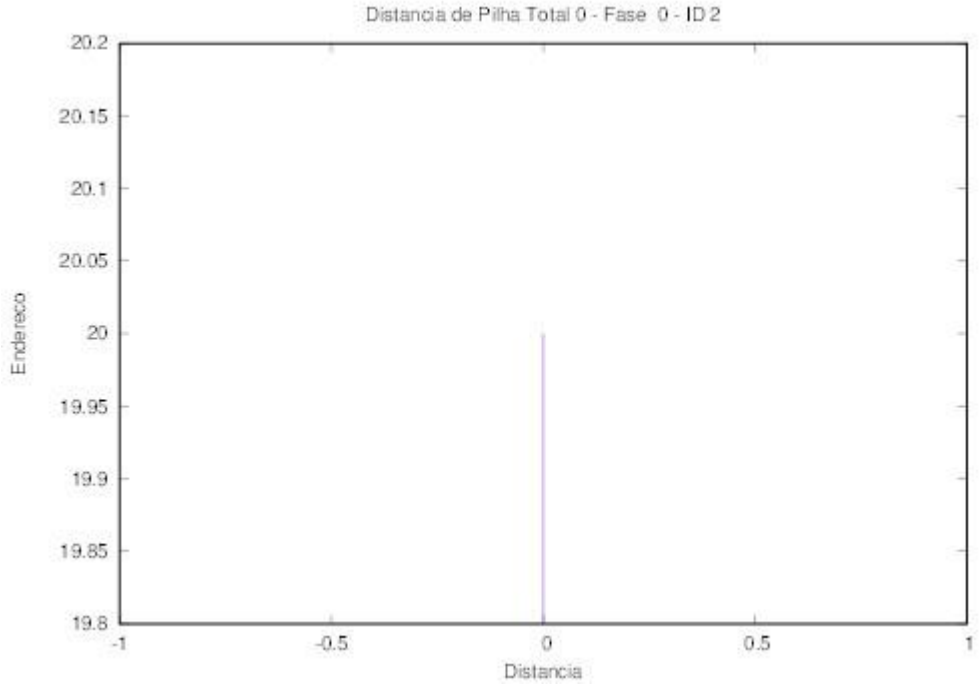

Distancia de Pilha Total 400 - Fase 0 - ID 0
Endereco
Distancia
0
5
10
15
20

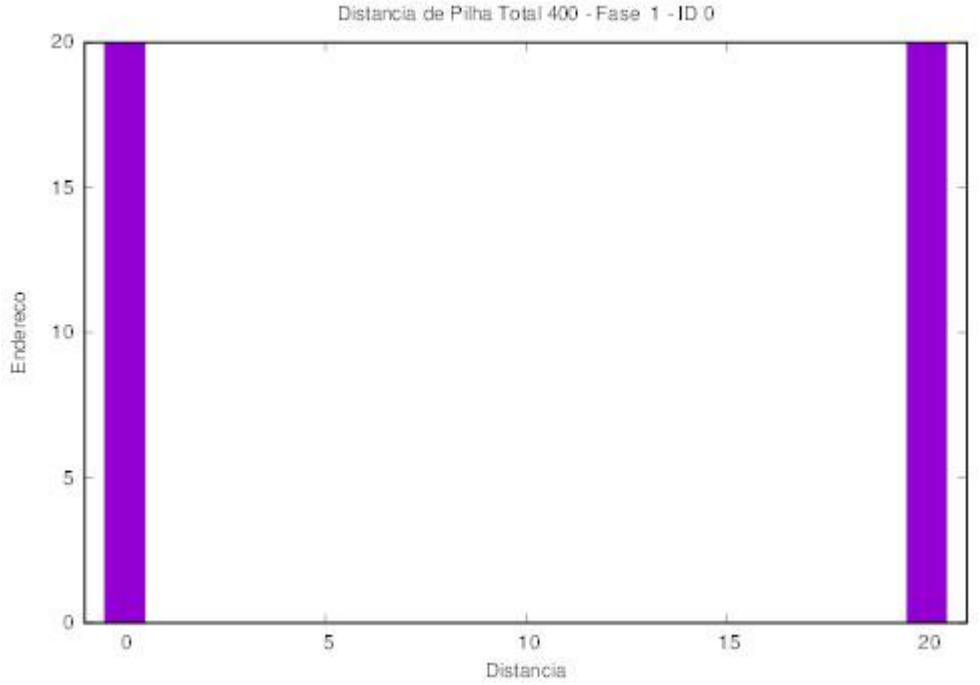

Distancia de Pilha Total 400 - Fase 1 - ID 0
Endereco
Distancia
0
5
10
15
20

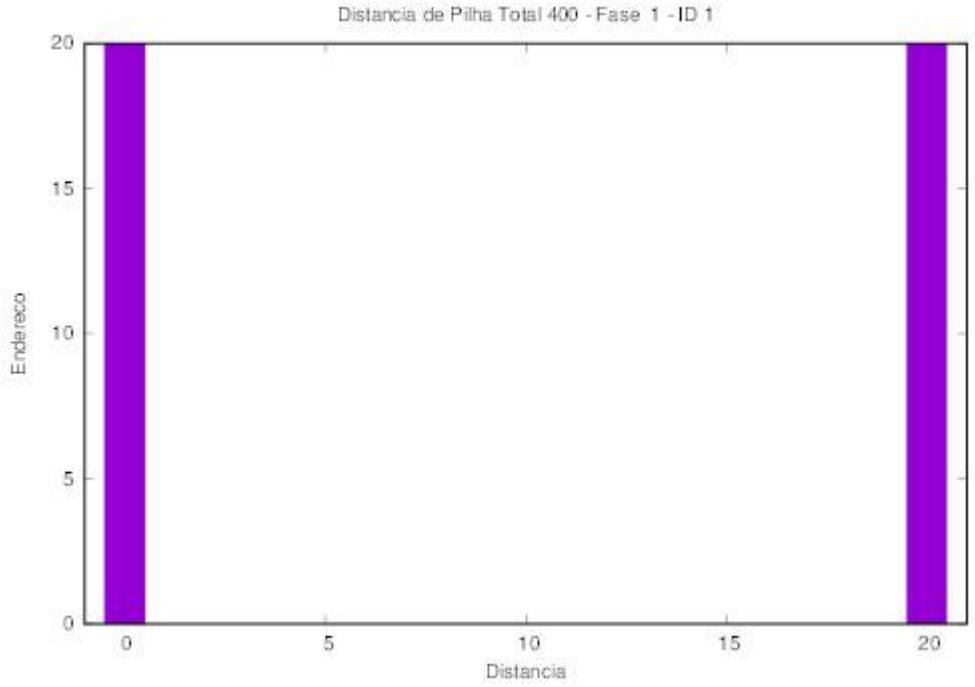
4.2.2.3. Soma

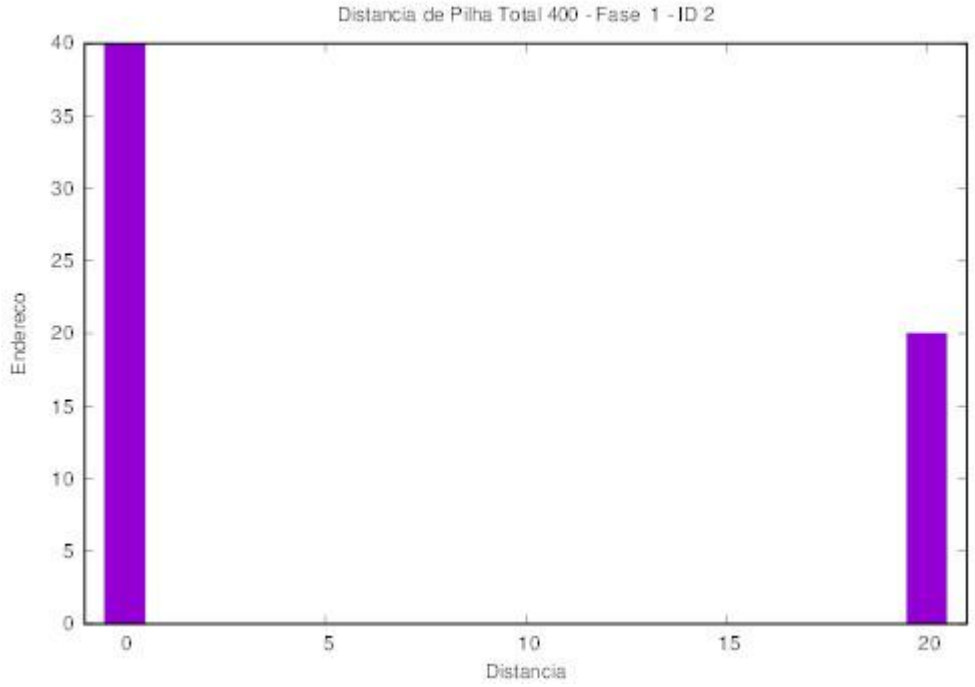

Distancia de Pilha Total 400 - Fase 0 - ID 0
Endereco
Distancia
0
5
10
15
20

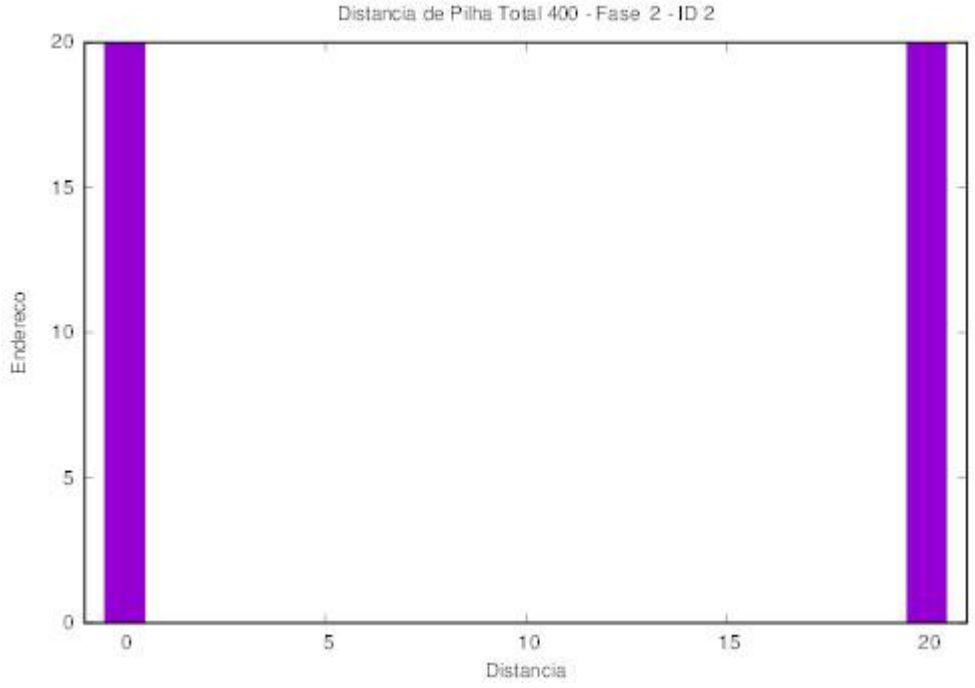

Distancia de Pilha Total 400 - Fase 0 - ID 1
Endereco
Distancia
0
5
10
15
20


Distancia de Pilha Total 0 - Fase 0 - ID 2
Endereco
Distancia
20.2
20.15
20.1
20.05
20
19.95
19.9
19.85
19.8
-1
-0.5
0
0.5
1


Distancia de Pilha Total 400 - Fase 1 - ID 0
Endereco
Distancia
20
15
10
5
0
0
5
10
15
20

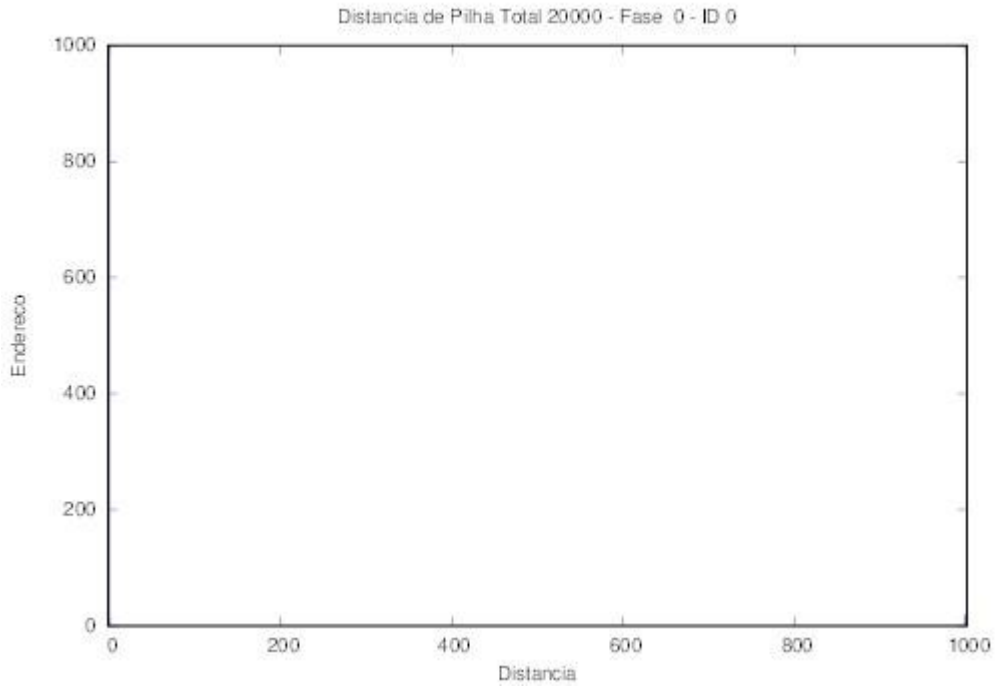

Distancia de Pilha Total 400 - Fase 1 - ID 1
Endereco
Distancia
0
5
10
15
20

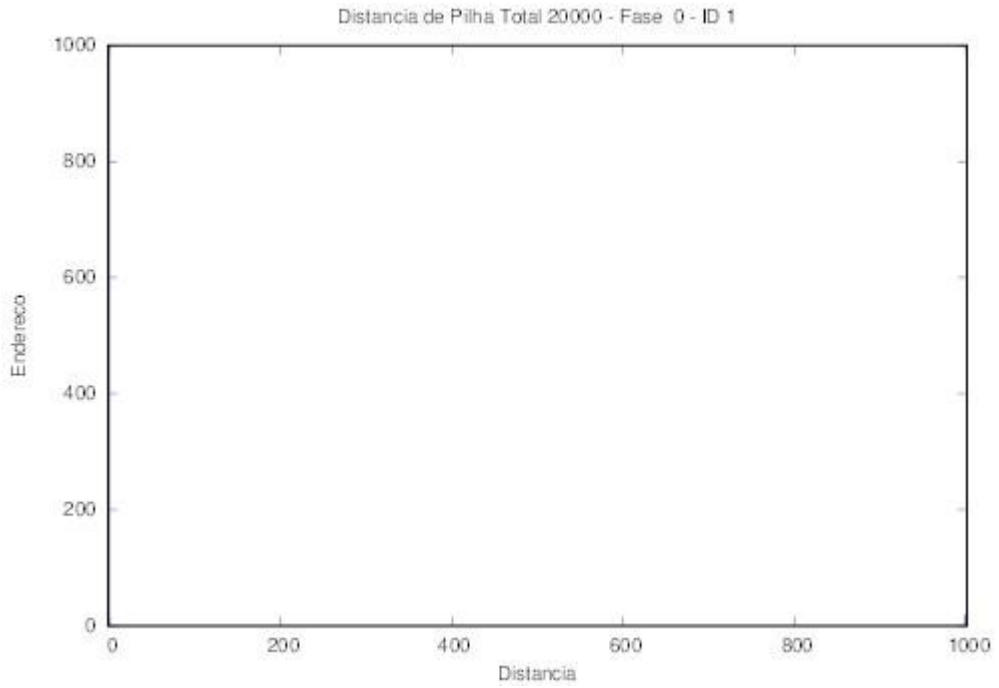

Distancia de Pilha Total 400 - Fase 1 - ID 2
Endereco
Distancia
0
5
10
15
20
25
30
35
40

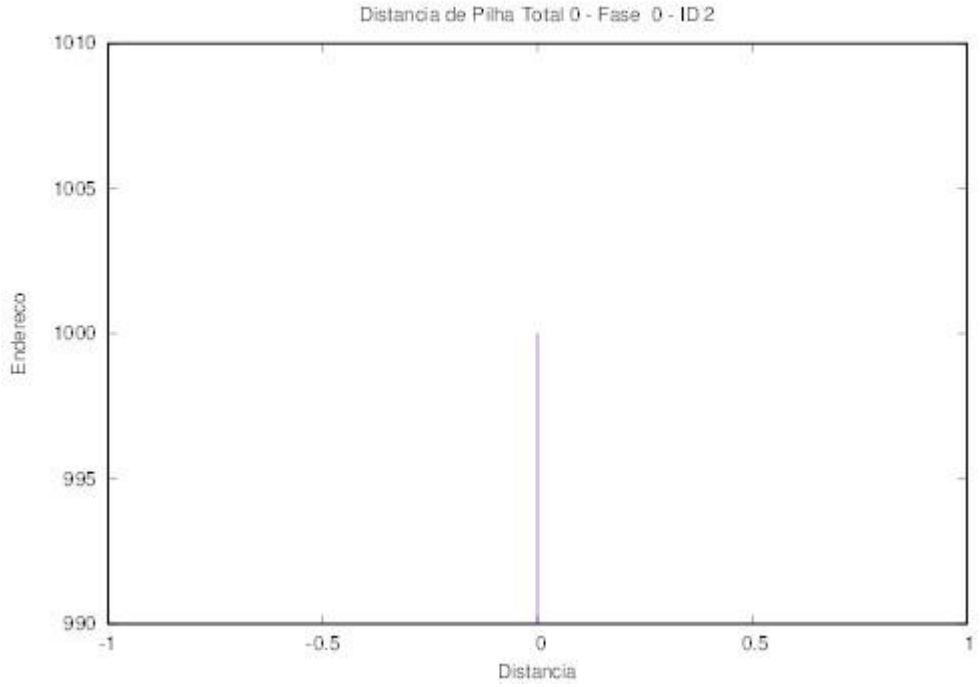

Distancia de Pilha Total 400 - Fase 2 - ID 2
Endereco
Distancia
0
5
10
15
20

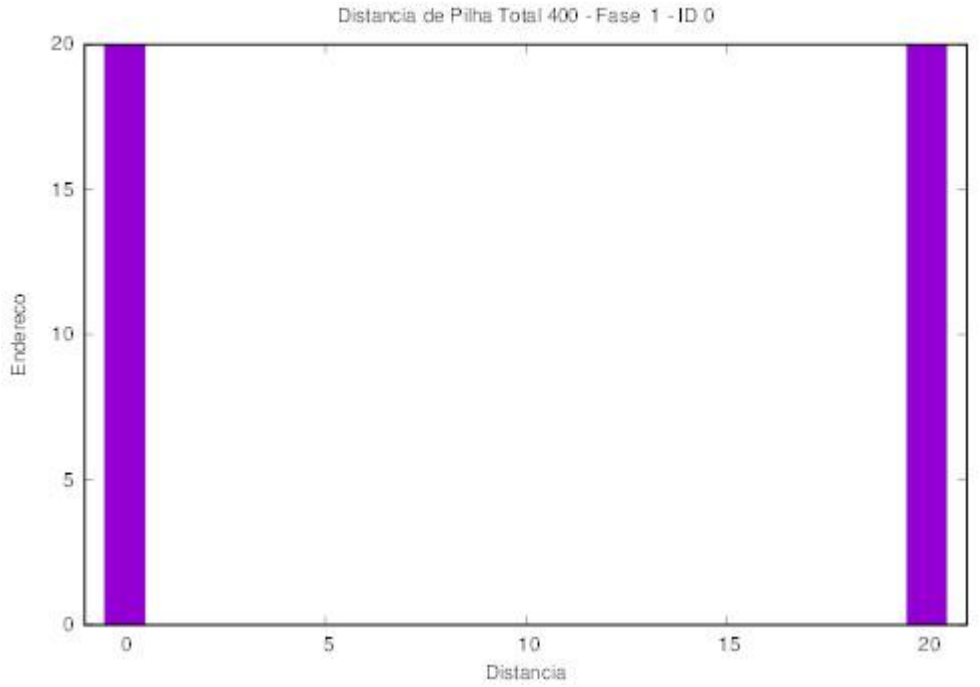
4.2.3. VetorEstatico

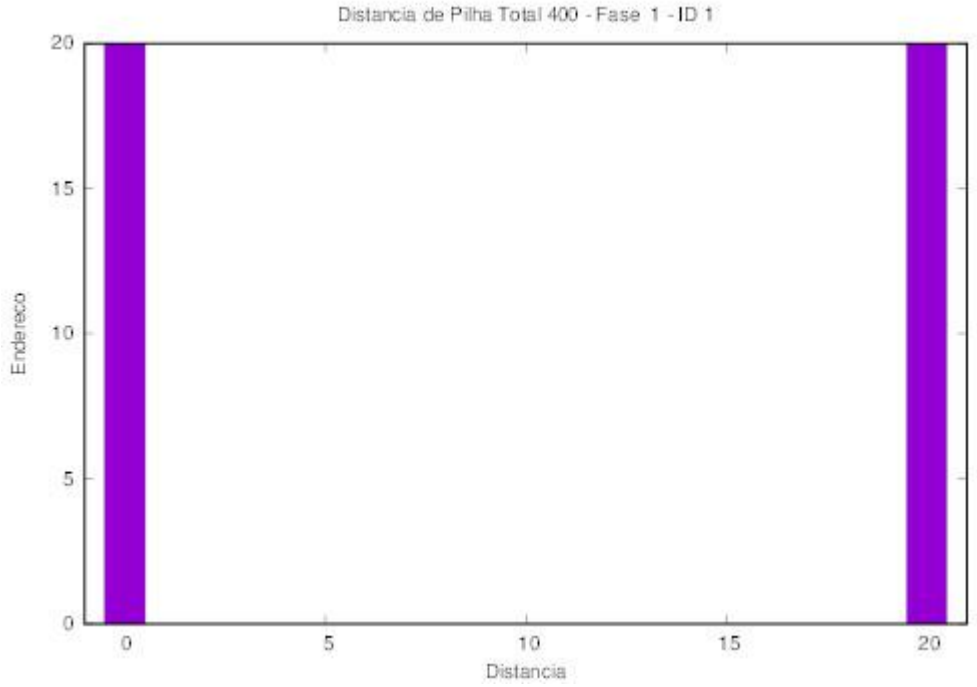
4.2.3.1. Produto Interno

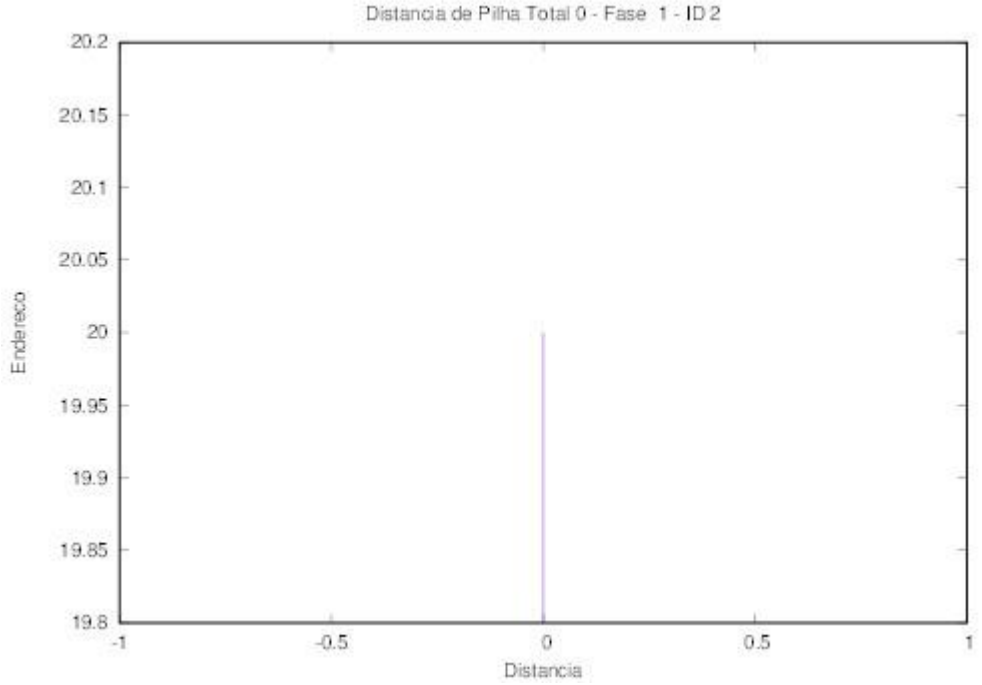




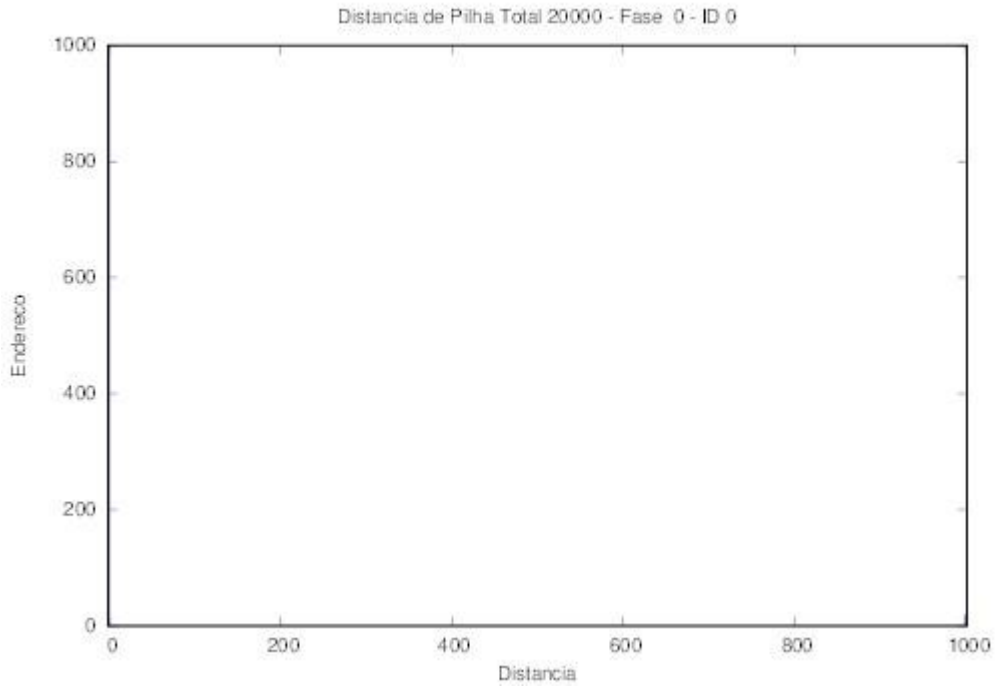

Distancia de Pilha Total 0 - Fase 0 - ID 2
1010
1005
1000
995
990
Endereco
-1
-0.5
0
0.5
1
Distancia

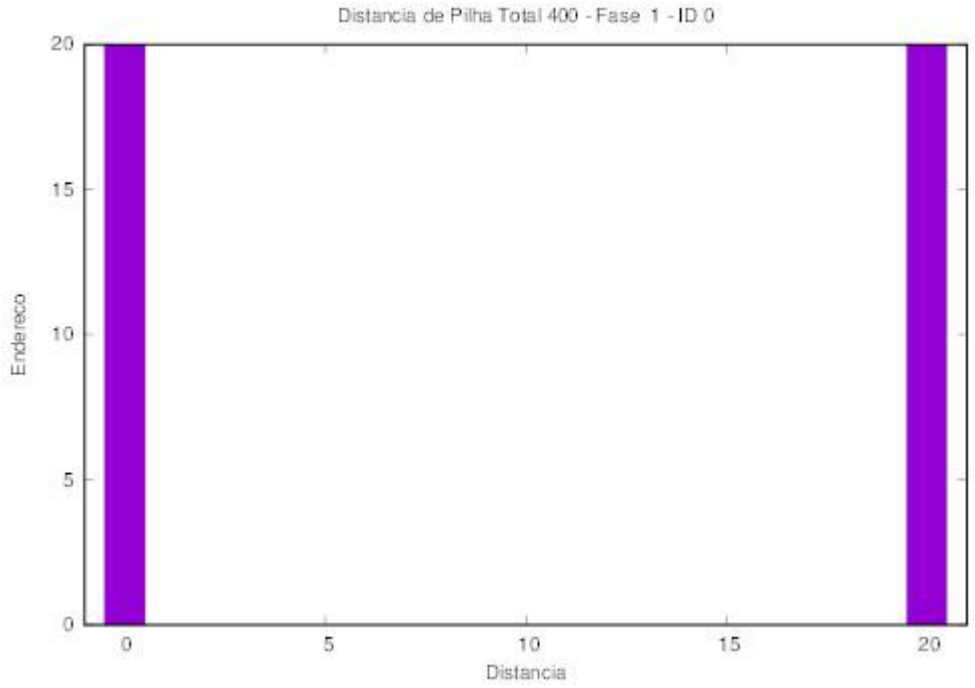

Distancia de Pilha Total 400 - Fase 1 - ID 0
20
15
10
5
0
Endereco
0
5
10
15
20
Distancia


Distancia de Pilha Total 400 - Fase 1 - ID 1
Endereco
Distancia
0
5
10
15
20

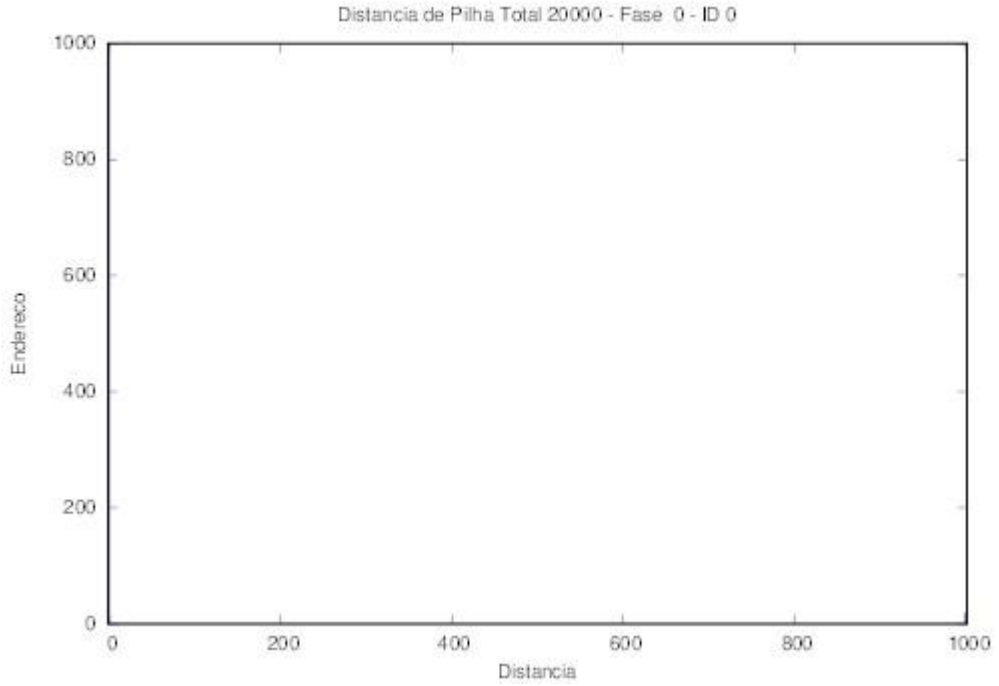

Distancia de Pilha Total 0 - Fase 1 - ID 2
Endereco
Distancia
20.2
20.15
20.1
20.05
20
19.95
19.9
19.85
19.8
-1
-0.5
0
0.5
1

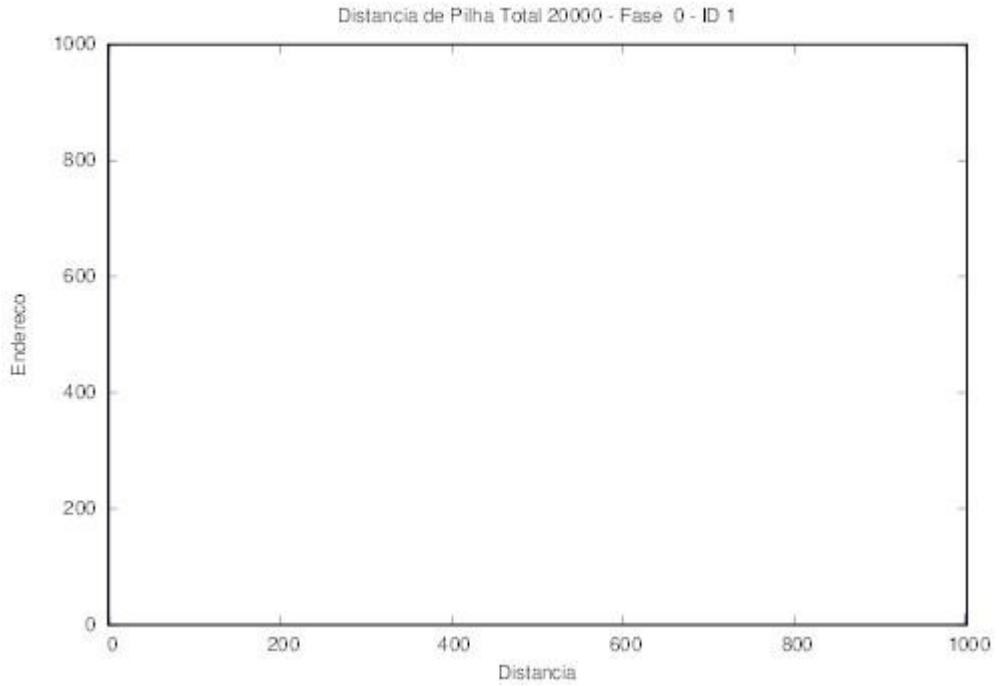
4.2.3.2. Norma

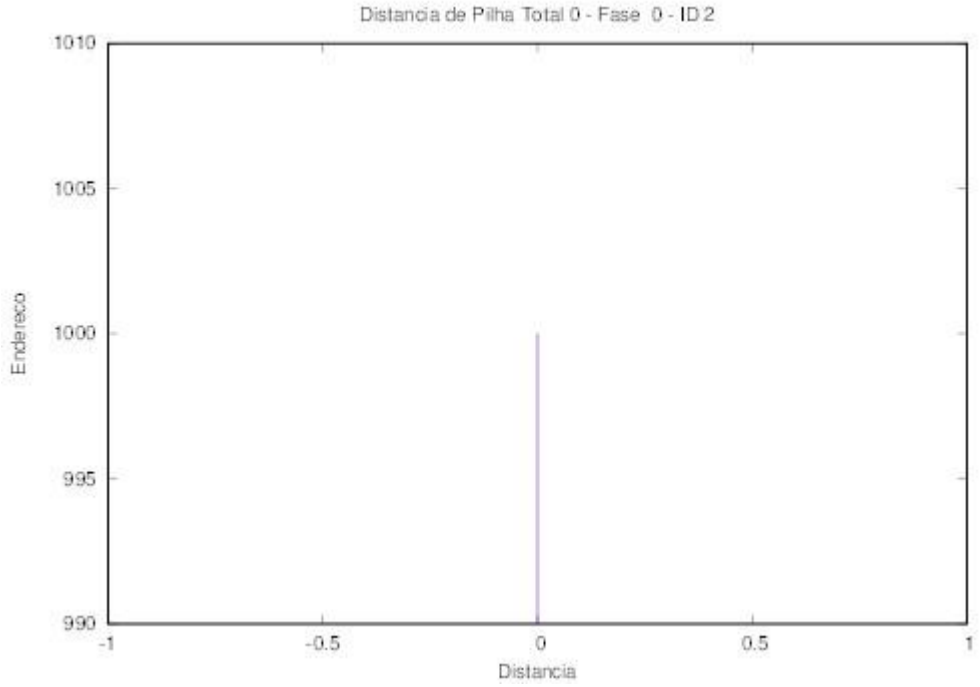

Distancia de Pilha Total 20000 - Fase 0 - ID 0
Endereco
Distancia
0
200
400
600
800
1000

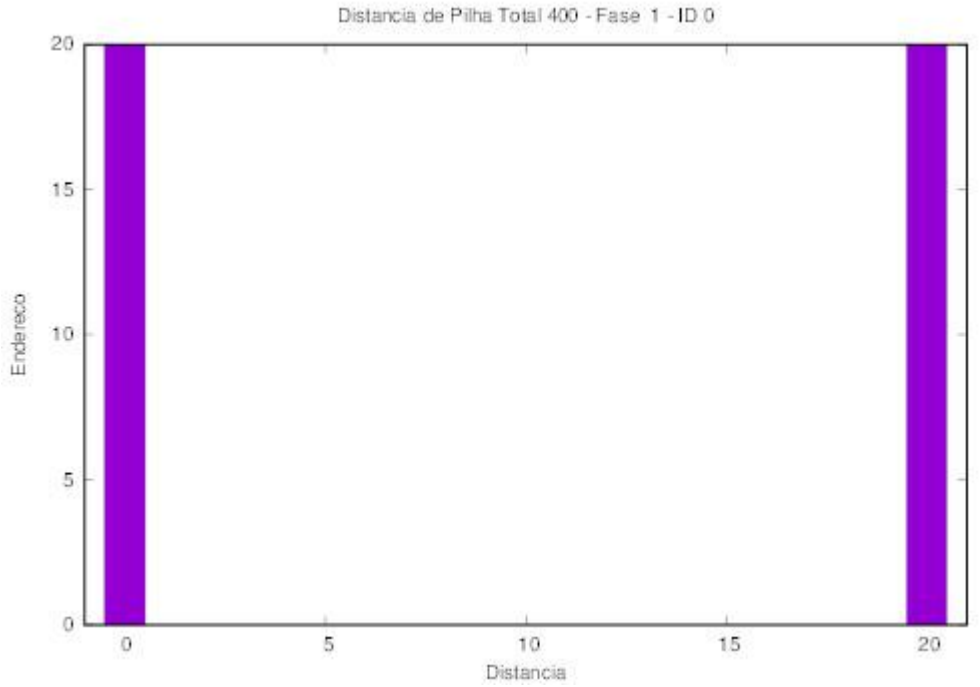

Distancia de Pilha Total 400 - Fase 1 - ID 0
Endereco
Distancia
0
5
10
15
20

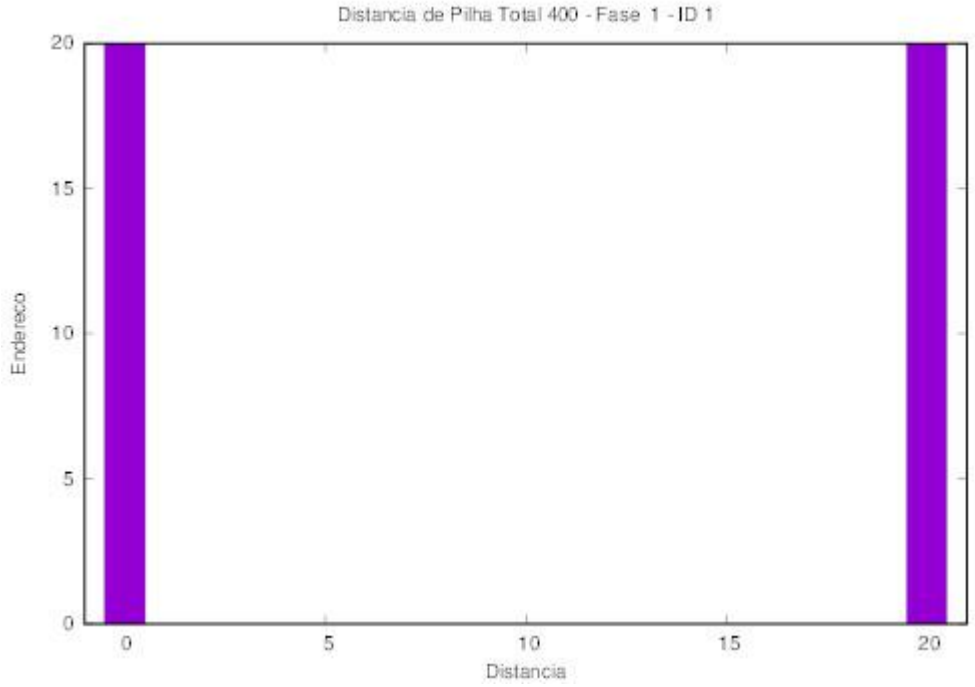
4.2.3.3. Soma

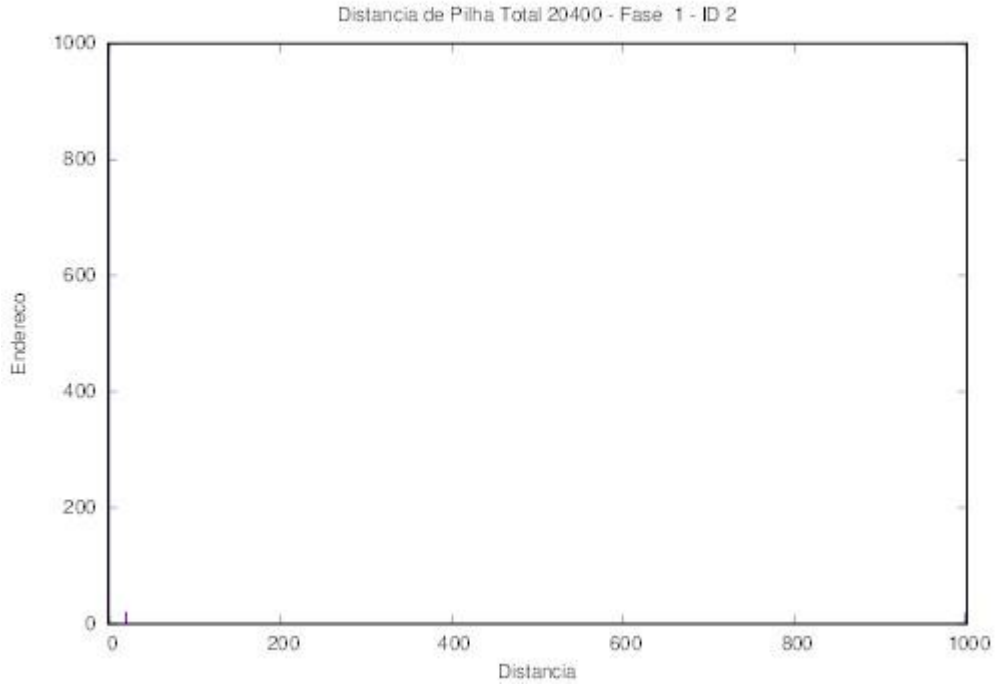

Distancia de Pilha Total 20000 - Fase 0 - ID 0
Endereco
Distancia
0
200
400
600
800
1000

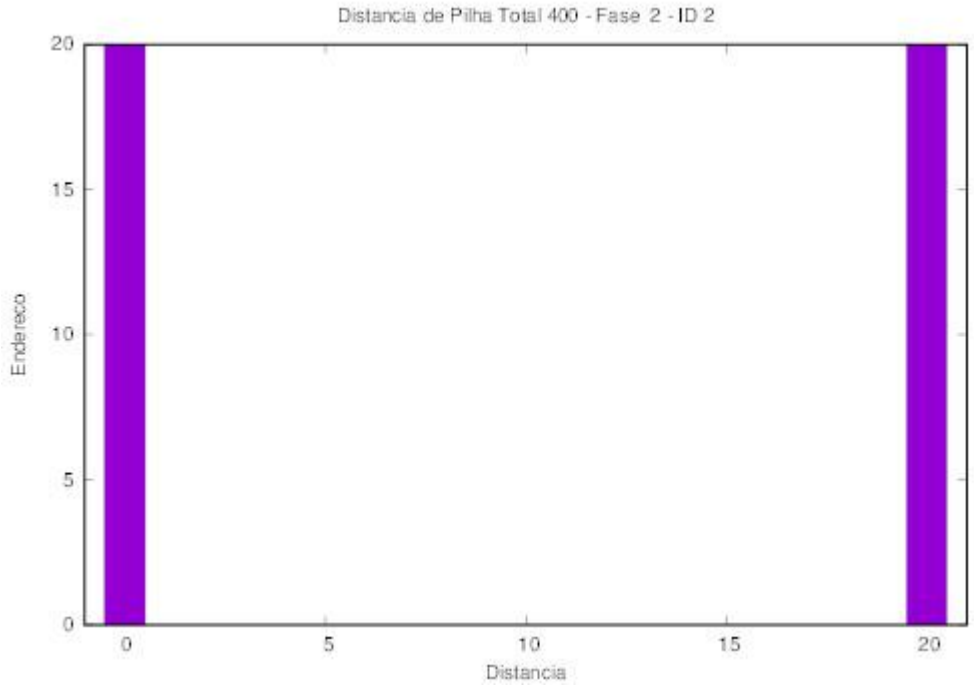

Distancia de Pilha Total 20000 - Fase 0 - ID 1
Endereco
Distancia
0
200
400
600
800
1000


Distancia de Pilha Total 0 - Fase 0 - ID 2
1010
1005
1000
995
990
Endereco
-1
-0.5
0
0.5
1
Distancia


Distancia de Pilha Total 400 - Fase 1 - ID 0
20
15
10
5
0
Endereco
0
5
10
15
20
Distancia


Distancia de Pilha Total 400 - Fase 1 - ID 1
Endereco
Distancia
0
5
10
15
20





5. Resultado Depuração gprof

5.1. Vetor Dinâmico

5.1.1. Interno

5.1.1.1. 1M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
66.79		0.02	0.02	3	6.68	6.68 inicializaVetorNulo
33.39		0.03	0.01	3	3.34	3.34 acessaVetor
0.00	0.03	0.00	3	0.00	0.00	criaVetor
0.00	0.03	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.03	0.00	3	0.00	0.00	destroiVetor
0.00	0.03	0.00	2	0.00	6.68	inicializaVetorAleatorio
0.00	0.03	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.03	0.00	1	0.00	0.00	desativaMemLog
0.00	0.03	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.03	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.03	0.00	1	0.00	0.00	parse_args
0.00	0.03	0.00	1	0.00	0.00	produtoInternoVetores

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 33.27% of 0.03 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.03		main [1]
		0.00	0.01	2/2	inicializaVetorAleatorio [3]
		0.01	0.00	3/3	acessaVetor [4]
		0.01	0.00	1/3	inicializaVetorNulo [2]
		0.00	0.00	3/3	defineFaseMemLog [6]
		0.00	0.00	3/3	criaVetor [5]
		0.00	0.00	3/3	destroiVetor [7]
		0.00	0.00	1/1	parse_args [12]
		0.00	0.00	1/1	iniciaMemLog [11]
		0.00	0.00	1/1	desativaMemLog [9]
		0.00	0.00	1/1	produtoInternoVetores [13]
		0.00	0.00	1/1	finalizaMemLog [10]

		0.01	0.00	1/3	main [1]
		0.01	0.00	2/3	inicializaVetorAleatorio [3]
[2]	66.7	0.02	0.00	3	inicializaVetorNulo [2]

		0.00	0.01	2/2	main [1]
[3]	44.4	0.00	0.01	2	inicializaVetorAleatorio [3]
		0.01	0.00	2/3	inicializaVetorNulo [2]

		0.01	0.00	3/3	main [1]
[4]	33.3	0.01	0.00	3	acessaVetor [4]

		0.00	0.00	3/3	main [1]
[5]	0.0	0.00	0.00	3	criaVetor [5]

		0.00	0.00	3/3	main [1]
[6]	0.0	0.00	0.00	3	defineFaseMemLog [6]

		0.00	0.00	3/3	main [1]
[7]	0.0	0.00	0.00	3	destroiVetor [7]

		0.00	0.00	1/1	finalizaMemLog [10]
[8]	0.0	0.00	0.00	1	clkDifMemLog [8]

		0.00	0.00	1/1	main [1]
[9]	0.0	0.00	0.00	1	desativaMemLog [9]

		0.00	0.00	1/1	main [1]
[10]	0.0	0.00	0.00	1	finalizaMemLog [10]

```
                0.00    0.00    1/1             clkDifMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       iniciaMemLog [11]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       parse_args [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       produtoInternoVetores [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

5.1.1.2. 2M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
40.07	0.02	0.02	3	6.68	6.68	acessaVetor
40.07	0.04	0.02	3	6.68	6.68	inicializaVetorNulo
20.04	0.05	0.01	1	10.02	10.02	produtoInternoVetores
0.00	0.05	0.00	3	0.00	0.00	criaVetor
0.00	0.05	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.05	0.00	3	0.00	0.00	destroiVetor
0.00	0.05	0.00	2	0.00	6.68	inicializaVetorAleatorio
0.00	0.05	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.05	0.00	1	0.00	0.00	desativaMemLog
0.00	0.05	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.05	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.05	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

 total   the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
         function is profiled, else blank.

name   the name of the function. This is the minor sort
         for this listing. The index shows the location of
         the function in the gprof listing. If the index is
         in parenthesis it shows where it would appear in
         the gprof listing if it were to be printed.

                     Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 19.96% of 0.05 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.05		main [1]
		0.02	0.00	3/3	acessaVetor [2]
		0.00	0.01	2/2	inicializaVetorAleatorio [4]
		0.01	0.00	1/1	produtoInternoVetores [5]
		0.01	0.00	1/3	inicializaVetorNulo [3]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/3	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.02	0.00	3/3	main [1]
[2]	40.0	0.02	0.00	3	acessaVetor [2]

		0.01	0.00	1/3	main [1]
		0.01	0.00	2/3	inicializaVetorAleatorio [4]
[3]	40.0	0.02	0.00	3	inicializaVetorNulo [3]

		0.00	0.01	2/2	main [1]
[4]	26.7	0.00	0.01	2	inicializaVetorAleatorio [4]
		0.01	0.00	2/3	inicializaVetorNulo [3]

		0.01	0.00	1/1	main [1]

```
[5]     20.0    0.01    0.00    1       produtoInternoVetores [5]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[6]     0.0     0.00    0.00    3       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this function by its children.

called This is the number of times the function was called. If the function called itself recursively, the number only includes non-recursive calls, and is followed by a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.1.3. 3M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
37.57	0.03	0.03	3	10.02	10.02	acessaVetor
25.05	0.05	0.02	3	6.68	6.68	inicializaVetorNulo
25.05	0.07	0.02	2	10.02	16.70	inicializaVetorAleatorio
12.52	0.08	0.01	1	10.02	10.02	produtoInternoVetores
0.00	0.08	0.00	3	0.00	0.00	criaVetor
0.00	0.08	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.08	0.00	3	0.00	0.00	destroiVetor
0.00	0.08	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.08	0.00	1	0.00	0.00	desativaMemLog
0.00	0.08	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.08	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.08	0.00	1	0.00	0.00	parse_args

 % the percentage of the total running time of the
time program used by this function.

cumulative a running sum of the number of seconds accounted
 seconds for by this function and those listed above it.

 self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
  listing.

calls the number of times this function was invoked, if
  this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
  else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
  function is profiled, else blank.

name the name of the function. This is the minor sort
  for this listing. The index shows the location of
  the function in the gprof listing. If the index is
  in parenthesis it shows where it would appear in
  the gprof listing if it were to be printed.

  Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 12.48% of 0.08 seconds

index	% time	self	children	called	name
				<spontaneous>	
[1]	100.0	0.00	0.08		main [1]
		0.02	0.01	2/2	inicializaVetorAleatorio [2]
		0.03	0.00	3/3	acessaVetor [3]
		0.01	0.00	1/1	produtoInternoVetores [5]
		0.01	0.00	1/3	inicializaVetorNulo [4]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/3	criaVetor [6]

```
                0.00    0.00    3/3             destroiVetor [8]
                0.00    0.00    1/1             parse_args [13]
                0.00    0.00    1/1             iniciaMemLog [12]
                0.00    0.00    1/1             desativaMemLog [10]
                0.00    0.00    1/1             finalizaMemLog [11]
-----------------------------------------------
                0.02    0.01    2/2             main [1]
[2]     41.7    0.02    0.01    2       inicializaVetorAleatorio [2]
                0.01    0.00    2/3             inicializaVetorNulo [4]
-----------------------------------------------
                0.03    0.00    3/3             main [1]
[3]     37.5    0.03    0.00    3       acessaVetor [3]
-----------------------------------------------
                0.01    0.00    1/3             main [1]
                0.01    0.00    2/3             inicializaVetorAleatorio [2]
[4]     25.0    0.02    0.00    3       inicializaVetorNulo [4]
-----------------------------------------------
                0.01    0.00    1/1             main [1]
[5]     12.5    0.01    0.00    1       produtoInternoVetores [5]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[6]     0.0     0.00    0.00    3       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between

the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the child into the function.

children This is the amount of time that was propagated from the
child's children to the function.

called This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.

name This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.1.4. 4M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
36.43		0.04	0.04	3	13.36	13.36	acessaVetor
36.43		0.08	0.04	3	13.36	13.36	inicializaVetorNulo
18.21		0.10	0.02	2	10.02	23.38	inicializaVetorAleatorio
9.11	0.11	0.01	1	10.02	10.02	produtoInternoVetores
0.00	0.11	0.00	3	0.00	0.00	criaVetor
0.00	0.11	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.11	0.00	3	0.00	0.00	destroiVetor
0.00	0.11	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.11	0.00	1	0.00	0.00	desativaMemLog
0.00	0.11	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.11	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.11	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 9.07% of 0.11 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.11		main [1]
		0.02	0.03	2/2	inicializaVetorAleatorio [2]
		0.04	0.00	3/3	acessaVetor [3]
		0.01	0.00	1/3	inicializaVetorNulo [4]
		0.01	0.00	1/1	produtoInternoVetores [5]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/3	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.02	0.03	2/2	main [1]
[2]	42.4	0.02	0.03	2	inicializaVetorAleatorio [2]
		0.03	0.00	2/3	inicializaVetorNulo [4]

		0.04	0.00	3/3	main [1]
[3]	36.4	0.04	0.00	3	acessaVetor [3]

		0.01	0.00	1/3	main [1]
		0.03	0.00	2/3	inicializaVetorAleatorio [2]
[4]	36.4	0.04	0.00	3	inicializaVetorNulo [4]

		0.01	0.00	1/1	main [1]
[5]	9.1	0.01	0.00	1	produtoInternoVetores [5]

		0.00	0.00	3/3	main [1]
[6]	0.0	0.00	0.00	3	criaVetor [6]

		0.00	0.00	3/3	main [1]
[7]	0.0	0.00	0.00	3	defineFaseMemLog [7]

		0.00	0.00	3/3	main [1]
[8]	0.0	0.00	0.00	3	destroiVetor [8]

```
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the

function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows,

for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.1.5. 5M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
45.54		0.05	0.05	3	16.70	16.70	acessaVetor
45.54		0.10	0.05	3	16.70	16.70	inicializaVetorNulo
9.11	0.11	0.01	1	10.02	10.02	produtoInternoVetores
0.00	0.11	0.00	3	0.00	0.00	criaVetor
0.00	0.11	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.11	0.00	3	0.00	0.00	destroiVetor
0.00	0.11	0.00	2	0.00	16.70	inicializaVetorAleatorio
0.00	0.11	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.11	0.00	1	0.00	0.00	desativaMemLog
0.00	0.11	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.11	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.11	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls the number of times this function was invoked, if
       this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
       else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
       function is profiled, else blank.

name   the name of the function. This is the minor sort
       for this listing. The index shows the location of
       the function in the gprof listing. If the index is
       in parenthesis it shows where it would appear in
       the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 9.07% of 0.11 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.11		main [1]
		0.05	0.00	3/3	acessaVetor [2]
		0.00	0.03	2/2	inicializaVetorAleatorio [4]
		0.02	0.00	1/3	inicializaVetorNulo [3]
		0.01	0.00	1/1	produtoInternoVetores [5]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/3	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.05	0.00	3/3	main [1]
[2]	45.5	0.05	0.00	3	acessaVetor [2]

		0.02	0.00	1/3	main [1]
		0.03	0.00	2/3	inicializaVetorAleatorio [4]

```
[3]     45.5    0.05    0.00    3       inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.03    2/2             main [1]
[4]     30.3    0.00    0.03    2       inicializaVetorAleatorio [4]
                0.03    0.00    2/3             inicializaVetorNulo [3]
-----------------------------------------------
                0.01    0.00    1/1             main [1]
[5]     9.1     0.01    0.00    1       produtoInternoVetores [5]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[6]     0.0     0.00    0.00    3       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent in this function and its children. Note that due to different viewpoints, functions excluded by options, etc, these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this function by its children.

called This is the number of times the function was called. If the function called itself recursively, the number only includes non-recursive calls, and is followed by a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the
 child's children to the function.

called This is the number of times the function called
 this child `/' the total number of times the child
 was called. Recursive calls by the child are not
 listed in the number after the `/'.

name This is the name of the child. The child's index
 number is printed after it. If the child is a
 member of a cycle, the cycle number is printed
 between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

[2] acessaVetor [10] desativaMemLog [4] inicializaVetorAleatorio
[9] clkDifMemLog [8] destroiVetor [3] inicializaVetorNulo
[6] criaVetor [11] finalizaMemLog [13] parse_args
[7] defineFaseMemLog [12] iniciaMemLog [5] produtoInternoVetores

5.1.2. Norma

5.1.2.1. 1M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
100.18	0.01	0.01	1	10.02	10.02	acessaVetor
0.00	0.01	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.01	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.01	0.00	1	0.00	0.00	criaVetor

0.00	0.01	0.00	1	0.00	0.00	desativaMemLog
0.00	0.01	0.00	1	0.00	0.00	destroiVetor
0.00	0.01	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.01	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.01	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.01	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.01	0.00	1	0.00	0.00	normaVetor
0.00	0.01	0.00	1	0.00	0.00	parse_args

 % the percentage of the total running time of the
time program used by this function.

cumulative a running sum of the number of seconds accounted
 seconds for by this function and those listed above it.

 self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
  listing.

calls the number of times this function was invoked, if
  this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
  else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
  function is profiled, else blank.

name the name of the function. This is the minor sort
  for this listing. The index shows the location of
  the function in the gprof listing. If the index is
  in parenthesis it shows where it would appear in
  the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 99.82% of 0.01 seconds

index % time self children called name

```
                0.01    0.00    1/1             main [2]
[1]     100.0   0.01    0.00    1       acessaVetor [1]
-----------------------------------------------
                                <spontaneous>
[2]     100.0   0.00    0.01            main [2]
                0.01    0.00    1/1             acessaVetor [1]
                0.00    0.00    3/3             defineFaseMemLog [3]
                0.00    0.00    1/1             parse_args [13]
                0.00    0.00    1/1             iniciaMemLog [9]
                0.00    0.00    1/1             desativaMemLog [6]
                0.00    0.00    1/1             criaVetor [5]
                0.00    0.00    1/1             inicializaVetorAleatorio [10]
                0.00    0.00    1/1             normaVetor [12]
                0.00    0.00    1/1             destroiVetor [7]
                0.00    0.00    1/1             finalizaMemLog [8]
-----------------------------------------------
                0.00    0.00    3/3             main [2]
[3]     0.0     0.00    0.00    3       defineFaseMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [8]
[4]     0.0     0.00    0.00    1       clkDifMemLog [4]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[5]     0.0     0.00    0.00    1       criaVetor [5]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[6]     0.0     0.00    0.00    1       desativaMemLog [6]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[7]     0.0     0.00    0.00    1       destroiVetor [7]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[8]     0.0     0.00    0.00    1       finalizaMemLog [8]
                0.00    0.00    1/1             clkDifMemLog [4]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[9]     0.0     0.00    0.00    1       iniciaMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[10]    0.0     0.00    0.00    1       inicializaVetorAleatorio [10]
                0.00    0.00    1/1             inicializaVetorNulo [11]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [10]
[11]    0.0     0.00    0.00    1       inicializaVetorNulo [11]
-----------------------------------------------
                0.00    0.00    1/1             main [2]
[12]    0.0     0.00    0.00    1       normaVetor [12]
-----------------------------------------------
```

```
                0.00    0.00    1/1             main [2]
[13]    0.0     0.00    0.00    1           parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function

was called. Recursive calls to the function are not
included in the number after the `/'.

name   This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self   This is the amount of time that was propagated directly
from the child into the function.

children   This is the amount of time that was propagated from the
child's children to the function.

called   This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.

name   This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

[5] criaVetor [8] finalizaMemLog [12] normaVetor
[3] defineFaseMemLog [9] iniciaMemLog [13] parse_args

5.1.2.2. 2M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
50.09		0.01	0.01	1	10.02	10.02 acessaVetor
50.09		0.02	0.01	1	10.02	10.02 normaVetor
0.00	0.02	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.02	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.02	0.00	1	0.00	0.00	criaVetor
0.00	0.02	0.00	1	0.00	0.00	desativaMemLog
0.00	0.02	0.00	1	0.00	0.00	destroiVetor
0.00	0.02	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.02	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.02	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.02	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.02	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of

the function in the gprof listing. If the index is
in parenthesis it shows where it would appear in
the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 49.91% of 0.02 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.02		main [1]
		0.01	0.00	1/1	acessaVetor [2]
		0.01	0.00	1/1	normaVetor [3]
		0.00	0.00	3/3	defineFaseMemLog [4]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [10]
		0.00	0.00	1/1	desativaMemLog [7]
		0.00	0.00	1/1	criaVetor [6]
		0.00	0.00	1/1	inicializaVetorAleatorio [11]
		0.00	0.00	1/1	destroiVetor [8]
		0.00	0.00	1/1	finalizaMemLog [9]

		0.01	0.00	1/1	main [1]
[2]	50.0	0.01	0.00	1	acessaVetor [2]

		0.01	0.00	1/1	main [1]
[3]	50.0	0.01	0.00	1	normaVetor [3]

		0.00	0.00	3/3	main [1]
[4]	0.0	0.00	0.00	3	defineFaseMemLog [4]

		0.00	0.00	1/1	finalizaMemLog [9]
[5]	0.0	0.00	0.00	1	clkDifMemLog [5]

		0.00	0.00	1/1	main [1]
[6]	0.0	0.00	0.00	1	criaVetor [6]

		0.00	0.00	1/1	main [1]
[7]	0.0	0.00	0.00	1	desativaMemLog [7]

		0.00	0.00	1/1	main [1]

```
[8]     0.0    0.00    0.00    1         destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[9]     0.0    0.00    0.00    1         finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [5]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0    0.00    0.00    1         iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0    0.00    0.00    1         inicializaVetorAleatorio [11]
                0.00    0.00    1/1             inicializaVetorNulo [12]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [11]
[12]    0.0    0.00    0.00    1         inicializaVetorNulo [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0    0.00    0.00    1         parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called.  Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the

cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.2.3. 3M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
33.39		0.01	0.01	1	10.02	10.02 acessaVetor
33.39		0.02	0.01	1	10.02	10.02 inicializaVetorAleatorio
33.39		0.03	0.01	1	10.02	10.02 normaVetor
0.00	0.03	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.03	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.03	0.00	1	0.00	0.00	criaVetor
0.00	0.03	0.00	1	0.00	0.00	desativaMemLog
0.00	0.03	0.00	1	0.00	0.00	destroiVetor
0.00	0.03	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.03	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.03	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.03	0.00	1	0.00	0.00	parse_args

% time the percentage of the total running time of the program used by this function.

cumulative seconds a running sum of the number of seconds accounted for by this function and those listed above it.

self the number of seconds accounted for by this

seconds function alone. This is the major sort for this
listing.

calls the number of times this function was invoked, if
this function is profiled, else blank.

self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
else blank.

total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
function is profiled, else blank.

name the name of the function. This is the minor sort
for this listing. The index shows the location of
the function in the gprof listing. If the index is
in parenthesis it shows where it would appear in
the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 33.27% of 0.03 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.03		main [1]
		0.01	0.00	1/1	inicializaVetorAleatorio [3]
		0.01	0.00	1/1	acessaVetor [2]
		0.01	0.00	1/1	normaVetor [4]
		0.00	0.00	3/3	defineFaseMemLog [5]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [11]
		0.00	0.00	1/1	desativaMemLog [8]
		0.00	0.00	1/1	criaVetor [7]
		0.00	0.00	1/1	destroiVetor [9]
		0.00	0.00	1/1	finalizaMemLog [10]

		0.01	0.00	1/1	main [1]
[2]	33.3	0.01	0.00	1	acessaVetor [2]

```
                0.01    0.00    1/1             main [1]
[3]     33.3    0.01    0.00    1       inicializaVetorAleatorio [3]
                0.00    0.00    1/1             inicializaVetorNulo [12]
-----------------------------------------------
                0.01    0.00    1/1             main [1]
[4]     33.3    0.01    0.00    1       normaVetor [4]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[5]     0.0     0.00    0.00    3       defineFaseMemLog [5]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [10]
[6]     0.0     0.00    0.00    1       clkDifMemLog [6]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[7]     0.0     0.00    0.00    1       criaVetor [7]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[8]     0.0     0.00    0.00    1       desativaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[9]     0.0     0.00    0.00    1       destroiVetor [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       finalizaMemLog [10]
                0.00    0.00    1/1             clkDifMemLog [6]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       iniciaMemLog [11]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [3]
[12]    0.0     0.00    0.00    1       inicializaVetorNulo [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent in this function and its children. Note that due to different viewpoints, functions excluded by options, etc, these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this function by its children.

called This is the number of times the function was called. If the function called itself recursively, the number only includes non-recursive calls, and is followed by a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the
 child's children to the function.

called This is the number of times the function called
 this child `/' the total number of times the child
 was called. Recursive calls by the child are not
 listed in the number after the `/'.

name This is the name of the child. The child's index
 number is printed after it. If the child is a
 member of a cycle, the cycle number is printed
 between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.2.4. 4M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
28.62	0.02	0.02	1	20.04	20.04	acessaVetor
28.62	0.04	0.02	1	20.04	30.05	inicializaVetorAleatorio
28.62	0.06	0.02	1	20.04	20.04	normaVetor
14.31	0.07	0.01	1	10.02	10.02	inicializaVetorNulo

0.00	0.07	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.07	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.07	0.00	1	0.00	0.00	criaVetor
0.00	0.07	0.00	1	0.00	0.00	desativaMemLog
0.00	0.07	0.00	1	0.00	0.00	destroiVetor
0.00	0.07	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.07	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.07	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 14.26% of 0.07 seconds

index % time self children called name

```
                                <spontaneous>
[1]     100.0  0.00    0.07                 main [1]
                0.02    0.01    1/1              inicializaVetorAleatorio [2]
                0.02    0.00    1/1              acessaVetor [3]
                0.02    0.00    1/1              normaVetor [4]
                0.00    0.00    3/3              defineFaseMemLog [6]
                0.00    0.00    1/1              parse_args [13]
                0.00    0.00    1/1              iniciaMemLog [12]
                0.00    0.00    1/1              desativaMemLog [9]
                0.00    0.00    1/1              criaVetor [8]
                0.00    0.00    1/1              destroiVetor [10]
                0.00    0.00    1/1              finalizaMemLog [11]
-----------------------------------------------
                0.02    0.01    1/1              main [1]
[2]      42.9   0.02    0.01    1            inicializaVetorAleatorio [2]
                0.01    0.00    1/1              inicializaVetorNulo [5]
-----------------------------------------------
                0.02    0.00    1/1              main [1]
[3]      28.6   0.02    0.00    1            acessaVetor [3]
-----------------------------------------------
                0.02    0.00    1/1              main [1]
[4]      28.6   0.02    0.00    1            normaVetor [4]
-----------------------------------------------
                0.01    0.00    1/1              inicializaVetorAleatorio [2]
[5]      14.3   0.01    0.00    1            inicializaVetorNulo [5]
-----------------------------------------------
                0.00    0.00    3/3              main [1]
[6]      0.0    0.00    0.00    3            defineFaseMemLog [6]
-----------------------------------------------
                0.00    0.00    1/1              finalizaMemLog [11]
[7]      0.0    0.00    0.00    1            clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1              main [1]
[8]      0.0    0.00    0.00    1            criaVetor [8]
-----------------------------------------------
                0.00    0.00    1/1              main [1]
[9]      0.0    0.00    0.00    1            desativaMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1              main [1]
[10]     0.0    0.00    0.00    1            destroiVetor [10]
-----------------------------------------------
                0.00    0.00    1/1              main [1]
[11]     0.0    0.00    0.00    1            finalizaMemLog [11]
                0.00    0.00    1/1              clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1              main [1]
[12]     0.0    0.00    0.00    1            iniciaMemLog [12]
-----------------------------------------------
```

```
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function

was called. Recursive calls to the function are not
included in the number after the `/'.

name   This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self   This is the amount of time that was propagated directly
from the child into the function.

children   This is the amount of time that was propagated from the
child's children to the function.

called   This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.

name   This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

[8] criaVetor [11] finalizaMemLog [4] normaVetor
[6] defineFaseMemLog [12] iniciaMemLog [13] parse_args

5.1.2.5. 5M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
33.39		0.02	0.02	1	20.04	20.04	acessaVetor
33.39		0.04	0.02	1	20.04	30.05	inicializaVetorAleatorio
16.70		0.05	0.01	1	10.02	10.02	inicializaVetorNulo
16.70		0.06	0.01	1	10.02	10.02	normaVetor
0.00	0.06	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.06	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.06	0.00	1	0.00	0.00	criaVetor
0.00	0.06	0.00	1	0.00	0.00	desativaMemLog
0.00	0.06	0.00	1	0.00	0.00	destroiVetor
0.00	0.06	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.06	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.06	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of

the function in the gprof listing. If the index is
in parenthesis it shows where it would appear in
the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 16.64% of 0.06 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.06		main [1]
		0.02	0.01	1/1	inicializaVetorAleatorio [2]
		0.02	0.00	1/1	acessaVetor [3]
		0.01	0.00	1/1	normaVetor [5]
		0.00	0.00	3/3	defineFaseMemLog [6]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [9]
		0.00	0.00	1/1	criaVetor [8]
		0.00	0.00	1/1	destroiVetor [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.02	0.01	1/1	main [1]
[2]	50.0	0.02	0.01	1	inicializaVetorAleatorio [2]
		0.01	0.00	1/1	inicializaVetorNulo [4]

		0.02	0.00	1/1	main [1]
[3]	33.3	0.02	0.00	1	acessaVetor [3]

		0.01	0.00	1/1	inicializaVetorAleatorio [2]
[4]	16.7	0.01	0.00	1	inicializaVetorNulo [4]

		0.01	0.00	1/1	main [1]
[5]	16.7	0.01	0.00	1	normaVetor [5]

		0.00	0.00	3/3	main [1]
[6]	0.0	0.00	0.00	3	defineFaseMemLog [6]

		0.00	0.00	1/1	finalizaMemLog [11]
[7]	0.0	0.00	0.00	1	clkDifMemLog [7]

```
                0.00    0.00    1/1             main [1]
[8]     0.0     0.00    0.00    1       criaVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[9]     0.0     0.00    0.00    1       desativaMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       destroiVetor [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called.  Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the

cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.3. Soma

5.1.3.1. 1M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
33.39		0.01	0.01	4	2.50	2.50	acessaVetor
33.39		0.02	0.01	4	2.50	2.50	inicializaVetorNulo
33.39		0.03	0.01	1	10.02	12.52	somaVetores
0.00	0.03	0.00	4	0.00	0.00	criaVetor
0.00	0.03	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.03	0.00	3	0.00	0.00	destroiVetor
0.00	0.03	0.00	2	0.00	2.50	inicializaVetorAleatorio
0.00	0.03	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.03	0.00	1	0.00	0.00	desativaMemLog
0.00	0.03	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.03	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.03	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

 self   the number of seconds accounted for by this
seconds   function alone. This is the major sort for this
         listing.

calls   the number of times this function was invoked, if
         this function is profiled, else blank.

 self   the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
         else blank.

 total   the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
         function is profiled, else blank.

name   the name of the function. This is the minor sort
         for this listing. The index shows the location of
         the function in the gprof listing. If the index is
         in parenthesis it shows where it would appear in
         the gprof listing if it were to be printed.

                     Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 33.27% of 0.03 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.03		main [1]
		0.01	0.00	1/1	somaVetores [2]
		0.01	0.00	4/4	acessaVetor [3]
		0.00	0.01	2/2	inicializaVetorAleatorio [5]
		0.00	0.00	1/4	inicializaVetorNulo [4]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/4	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.01	0.00	1/1	main [1]

```
[2]     41.7    0.01    0.00    1       somaVetores [2]
                0.00    0.00    1/4             inicializaVetorNulo [4]
                0.00    0.00    1/4             criaVetor [6]
-----------------------------------------------
                0.01    0.00    4/4             main [1]
[3]     33.3    0.01    0.00    4       acessaVetor [3]
-----------------------------------------------
                0.00    0.00    1/4             main [1]
                0.00    0.00    1/4             somaVetores [2]
                0.01    0.00    2/4             inicializaVetorAleatorio [5]
[4]     33.3    0.01    0.00    4       inicializaVetorNulo [4]
-----------------------------------------------
                0.00    0.01    2/2             main [1]
[5]     16.7    0.00    0.01    2       inicializaVetorAleatorio [5]
                0.01    0.00    2/4             inicializaVetorNulo [4]
-----------------------------------------------
                0.00    0.00    1/4             somaVetores [2]
                0.00    0.00    3/4             main [1]
[6]     0.0     0.00    0.00    4       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the index number at the left hand margin lists the current function.

The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word

`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly
 from the child into the function.

children This is the amount of time that was propagated from the
 child's children to the function.

called This is the number of times the function called
 this child `/' the total number of times the child
 was called. Recursive calls by the child are not
 listed in the number after the `/'.

name This is the name of the child. The child's index
 number is printed after it. If the child is a
 member of a cycle, the cycle number is printed
 between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.3.2. 2M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
53.04		0.09	0.09	4	22.54	22.54	acessaVetor
23.57		0.13	0.04	1	40.07	47.59	somaVetores
17.68		0.16	0.03	4	7.51	7.51	inicializaVetorNulo
5.89	0.17	0.01	2	5.01	12.52	inicializaVetorAleatorio
0.00	0.17	0.00	4	0.00	0.00	criaVetor
0.00	0.17	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.17	0.00	3	0.00	0.00	destroiVetor
0.00	0.17	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.17	0.00	1	0.00	0.00	desativaMemLog
0.00	0.17	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.17	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.17	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 5.87% of 0.17 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.17		main [1]
		0.09	0.00	4/4	acessaVetor [2]
		0.04	0.01	1/1	somaVetores [3]
		0.01	0.02	2/2	inicializaVetorAleatorio [5]
		0.01	0.00	1/4	inicializaVetorNulo [4]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/4	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.09	0.00	4/4	main [1]
[2]	52.9	0.09	0.00	4	acessaVetor [2]

		0.04	0.01	1/1	main [1]
[3]	27.9	0.04	0.01	1	somaVetores [3]
		0.01	0.00	1/4	inicializaVetorNulo [4]
		0.00	0.00	1/4	criaVetor [6]

		0.01	0.00	1/4	main [1]
		0.01	0.00	1/4	somaVetores [3]
		0.02	0.00	2/4	inicializaVetorAleatorio [5]
[4]	17.6	0.03	0.00	4	inicializaVetorNulo [4]

		0.01	0.02	2/2	main [1]
[5]	14.7	0.01	0.02	2	inicializaVetorAleatorio [5]
		0.02	0.00	2/4	inicializaVetorNulo [4]

		0.00	0.00	1/4	somaVetores [3]
		0.00	0.00	3/4	main [1]
[6]	0.0	0.00	0.00	4	criaVetor [6]

		0.00	0.00	3/3	main [1]
[7]	0.0	0.00	0.00	3	defineFaseMemLog [7]

		0.00	0.00	3/3	main [1]
[8]	0.0	0.00	0.00	3	destroiVetor [8]

```
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the

function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows,

for that member, how many times it was called from other members of
the cycle.

Index by function name

5.1.3.3. 3M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
40.07		0.04	0.04	4	10.02	10.02	acessaVetor
30.05		0.07	0.03	4	7.51	7.51	inicializaVetorNulo
20.04		0.09	0.02	2	10.02	17.53	inicializaVetorAleatorio
10.02		0.10	0.01	1	10.02	17.53	somaVetores
0.00	0.10	0.00	4	0.00	0.00	criaVetor
0.00	0.10	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.10	0.00	3	0.00	0.00	destroiVetor
0.00	0.10	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.10	0.00	1	0.00	0.00	desativaMemLog
0.00	0.10	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.10	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.10	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls the number of times this function was invoked, if
       this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
       else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
       function is profiled, else blank.

name   the name of the function. This is the minor sort
       for this listing. The index shows the location of
       the function in the gprof listing. If the index is
       in parenthesis it shows where it would appear in
       the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 9.98% of 0.10 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.10		main [1]
		0.04	0.00	4/4	acessaVetor [2]
		0.02	0.02	2/2	inicializaVetorAleatorio [3]
		0.01	0.01	1/1	somaVetores [5]
		0.01	0.00	1/4	inicializaVetorNulo [4]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/4	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.04	0.00	4/4	main [1]
[2]	40.0	0.04	0.00	4	acessaVetor [2]

		0.02	0.02	2/2	main [1]
[3]	35.0	0.02	0.02	2	inicializaVetorAleatorio [3]

```
                0.02    0.00    2/4             inicializaVetorNulo [4]
-----------------------------------------------
                0.01    0.00    1/4             main [1]
                0.01    0.00    1/4             somaVetores [5]
                0.02    0.00    2/4             inicializaVetorAleatorio [3]
[4]     30.0    0.03    0.00    4       inicializaVetorNulo [4]
-----------------------------------------------
                0.01    0.01    1/1             main [1]
[5]     17.5    0.01    0.01    1       somaVetores [5]
                0.01    0.00    1/4             inicializaVetorNulo [4]
                0.00    0.00    1/4             criaVetor [6]
-----------------------------------------------
                0.00    0.00    1/4             somaVetores [5]
                0.00    0.00    3/4             main [1]
[6]     0.0     0.00    0.00    4       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.

Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

[2] acessaVetor [10] desativaMemLog [3] inicializaVetorAleatorio
[9] clkDifMemLog [8] destroiVetor [4] inicializaVetorNulo
[6] criaVetor [11] finalizaMemLog [13] parse_args
[7] defineFaseMemLog [12] iniciaMemLog [5] somaVetores

5.1.3.4. 4M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
38.53	0.05	0.05	4	12.52	12.52	acessaVetor

30.82		0.09	0.04	4	10.02	10.02	inicializaVetorNulo
15.41		0.11	0.02	2	10.02	20.04	inicializaVetorAleatorio
15.41		0.13	0.02	1	20.04	30.05	somaVetores
0.00	0.13	0.00	4	0.00	0.00	criaVetor	
0.00	0.13	0.00	3	0.00	0.00	defineFaseMemLog	
0.00	0.13	0.00	3	0.00	0.00	destroiVetor	
0.00	0.13	0.00	1	0.00	0.00	clkDifMemLog	
0.00	0.13	0.00	1	0.00	0.00	desativaMemLog	
0.00	0.13	0.00	1	0.00	0.00	finalizaMemLog	
0.00	0.13	0.00	1	0.00	0.00	iniciaMemLog	
0.00	0.13	0.00	1	0.00	0.00	parse_args	

 % the percentage of the total running time of the
time program used by this function.

cumulative a running sum of the number of seconds accounted
 seconds for by this function and those listed above it.

 self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
  listing.

calls the number of times this function was invoked, if
  this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
  else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
  function is profiled, else blank.

name the name of the function. This is the minor sort
  for this listing. The index shows the location of
  the function in the gprof listing. If the index is
  in parenthesis it shows where it would appear in
  the gprof listing if it were to be printed.

  Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 7.68% of 0.13 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.13		main [1]
		0.05	0.00	4/4	acessaVetor [2]
		0.02	0.02	2/2	inicializaVetorAleatorio [4]
		0.02	0.01	1/1	somaVetores [5]
		0.01	0.00	1/4	inicializaVetorNulo [3]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/4	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.05	0.00	4/4	main [1]
[2]	38.5	0.05	0.00	4	acessaVetor [2]

		0.01	0.00	1/4	main [1]
		0.01	0.00	1/4	somaVetores [5]
		0.02	0.00	2/4	inicializaVetorAleatorio [4]
[3]	30.8	0.04	0.00	4	inicializaVetorNulo [3]

		0.02	0.02	2/2	main [1]
[4]	30.8	0.02	0.02	2	inicializaVetorAleatorio [4]
		0.02	0.00	2/4	inicializaVetorNulo [3]

		0.02	0.01	1/1	main [1]
[5]	23.1	0.02	0.01	1	somaVetores [5]
		0.01	0.00	1/4	inicializaVetorNulo [3]
		0.00	0.00	1/4	criaVetor [6]

		0.00	0.00	1/4	somaVetores [5]
		0.00	0.00	3/4	main [1]
[6]	0.0	0.00	0.00	4	criaVetor [6]

		0.00	0.00	3/3	main [1]
[7]	0.0	0.00	0.00	3	defineFaseMemLog [7]

		0.00	0.00	3/3	main [1]
[8]	0.0	0.00	0.00	3	destroiVetor [8]

		0.00	0.00	1/1	finalizaMemLog [11]
[9]	0.0	0.00	0.00	1	clkDifMemLog [9]

		0.00	0.00	1/1	main [1]

```
[10]     0.0      0.00     0.00     1        desativaMemLog [10]
-----------------------------------------------
                  0.00     0.00     1/1              main [1]
[11]     0.0      0.00     0.00     1        finalizaMemLog [11]
                  0.00     0.00     1/1              clkDifMemLog [9]
-----------------------------------------------
                  0.00     0.00     1/1              main [1]
[12]     0.0      0.00     0.00     1        iniciaMemLog [12]
-----------------------------------------------
                  0.00     0.00     1/1              main [1]
[13]     0.0      0.00     0.00     1        parse_args [13]
-----------------------------------------------
```

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index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

5.1.3.5. 5M

Flat profile:

Each sample counts as 0.01 seconds.

% time	cumulative seconds	self seconds	calls	self ms/call	total ms/call	name
40.98		0.09	0.09	4	22.54	22.54	inicializaVetorNulo
36.43		0.17	0.08	4	20.04	20.04	acessaVetor
13.66		0.20	0.03	2	15.03	37.57	inicializaVetorAleatorio
9.11	0.22	0.02	1	20.04	42.58	somaVetores
0.00	0.22	0.00	4	0.00	0.00	criaVetor
0.00	0.22	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.22	0.00	3	0.00	0.00	destroiVetor
0.00	0.22	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.22	0.00	1	0.00	0.00	desativaMemLog
0.00	0.22	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.22	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.22	0.00	1	0.00	0.00	parse_args

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self — the average number of milliseconds spent in this

ms/call function per call, if this function is profiled,
else blank.

total ms/call the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) for 4.54% of 0.22 seconds

index	% time	self	children	called	name
					<spontaneous>
[1]	100.0	0.00	0.22		main [1]
		0.08	0.00	4/4	acessaVetor [3]
		0.03	0.05	2/2	inicializaVetorAleatorio [4]
		0.02	0.02	1/1	somaVetores [5]
		0.02	0.00	1/4	inicializaVetorNulo [2]
		0.00	0.00	3/3	defineFaseMemLog [7]
		0.00	0.00	3/4	criaVetor [6]
		0.00	0.00	3/3	destroiVetor [8]
		0.00	0.00	1/1	parse_args [13]
		0.00	0.00	1/1	iniciaMemLog [12]
		0.00	0.00	1/1	desativaMemLog [10]
		0.00	0.00	1/1	finalizaMemLog [11]

		0.02	0.00	1/4	main [1]
		0.02	0.00	1/4	somaVetores [5]
		0.05	0.00	2/4	inicializaVetorAleatorio [4]
[2]	40.9	0.09	0.00	4	inicializaVetorNulo [2]

		0.08	0.00	4/4	main [1]
[3]	36.4	0.08	0.00	4	acessaVetor [3]

		0.03	0.05	2/2	main [1]

```
[4]     34.1    0.03    0.05    2       inicializaVetorAleatorio [4]
                0.05    0.00    2/4             inicializaVetorNulo [2]
-----------------------------------------------
                0.02    0.02    1/1             main [1]
[5]     19.3    0.02    0.02    1       somaVetores [5]
                0.02    0.00    1/4             inicializaVetorNulo [2]
                0.00    0.00    1/4             criaVetor [6]
-----------------------------------------------
                0.00    0.00    1/4             somaVetores [5]
                0.00    0.00    3/4             main [1]
[6]     0.0     0.00    0.00    4       criaVetor [6]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[7]     0.0     0.00    0.00    3       defineFaseMemLog [7]
-----------------------------------------------
                0.00    0.00    3/3             main [1]
[8]     0.0     0.00    0.00    3       destroiVetor [8]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [11]
[9]     0.0     0.00    0.00    1       clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[10]    0.0     0.00    0.00    1       desativaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[11]    0.0     0.00    0.00    1       finalizaMemLog [11]
                0.00    0.00    1/1             clkDifMemLog [9]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[12]    0.0     0.00    0.00    1       iniciaMemLog [12]
-----------------------------------------------
                0.00    0.00    1/1             main [1]
[13]    0.0     0.00    0.00    1       parse_args [13]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent in this function and its children. Note that due to different viewpoints, functions excluded by options, etc, these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this function by its children.

called This is the number of times the function was called. If the function called itself recursively, the number only includes non-recursive calls, and is followed by a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the
 child's children to the function.

called This is the number of times the function called
 this child `/' the total number of times the child
 was called. Recursive calls by the child are not
 listed in the number after the `/'.

name This is the name of the child. The child's index
 number is printed after it. If the child is a
 member of a cycle, the cycle number is printed
 between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.2. Vetor Estático

5.2.1. Interno

5.2.1.1. 100

Flat profile:

Each sample counts as 0.01 seconds.
 no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name

0.00	0.00	0.00	3	0.00	0.00	acessaVetor
0.00	0.00	0.00	3	0.00	0.00	criaVetor
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	3	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	produtoInternoVetores

 % the percentage of the total running time of the
time program used by this function.

cumulative a running sum of the number of seconds accounted
 seconds for by this function and those listed above it.

 self the number of seconds accounted for by this
seconds function alone. This is the major sort for this
  listing.

calls the number of times this function was invoked, if
  this function is profiled, else blank.

 self the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
  else blank.

 total the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
  function is profiled, else blank.

name the name of the function. This is the minor sort
  for this listing. The index shows the location of
  the function in the gprof listing. If the index is
  in parenthesis it shows where it would appear in
  the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	acessaVetor [1]
		0.00	0.00	3/3	main [25]
[2]	0.0	0.00	0.00	3	criaVetor [2]
		0.00	0.00	3/3	main [25]
[3]	0.0	0.00	0.00	3	defineFaseMemLog [3]
		0.00	0.00	3/3	main [25]
[4]	0.0	0.00	0.00	3	destroiVetor [4]
		0.00	0.00	1/3	main [25]
		0.00	0.00	2/3	inicializaVetorAleatorio [6]
[5]	0.0	0.00	0.00	3	inicializaVetorNulo [5]
		0.00	0.00	2/2	main [25]
[6]	0.0	0.00	0.00	2	inicializaVetorAleatorio [6]
		0.00	0.00	2/3	inicializaVetorNulo [5]
		0.00	0.00	1/1	finalizaMemLog [9]
[7]	0.0	0.00	0.00	1	clkDifMemLog [7]
		0.00	0.00	1/1	main [25]
[8]	0.0	0.00	0.00	1	desativaMemLog [8]
		0.00	0.00	1/1	main [25]
[9]	0.0	0.00	0.00	1	finalizaMemLog [9]
		0.00	0.00	1/1	clkDifMemLog [7]
		0.00	0.00	1/1	main [25]
[10]	0.0	0.00	0.00	1	iniciaMemLog [10]
		0.00	0.00	1/1	main [25]
[11]	0.0	0.00	0.00	1	parse_args [11]
		0.00	0.00	1/1	main [25]
[12]	0.0	0.00	0.00	1	produtoInternoVetores [12]

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the

index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the child into the function.

children This is the amount of time that was propagated from the
child's children to the function.

called This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.

name This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.2.1.2. 200

Flat profile:

Each sample counts as 0.01 seconds.
 no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	acessaVetor
0.00	0.00	0.00	3	0.00	0.00	criaVetor
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	3	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	produtoInternoVetores

 % time the percentage of the total running time of the program used by this function.

cumulative seconds a running sum of the number of seconds accounted for by this function and those listed above it.

 self seconds the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls the number of times this function was invoked, if this function is profiled, else blank.

 self ms/call the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

 total ms/call the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	acessaVetor [1]
		0.00	0.00	3/3	main [25]
[2]	0.0	0.00	0.00	3	criaVetor [2]
		0.00	0.00	3/3	main [25]
[3]	0.0	0.00	0.00	3	defineFaseMemLog [3]
		0.00	0.00	3/3	main [25]
[4]	0.0	0.00	0.00	3	destroiVetor [4]
		0.00	0.00	1/3	main [25]
		0.00	0.00	2/3	inicializaVetorAleatorio [6]
[5]	0.0	0.00	0.00	3	inicializaVetorNulo [5]
		0.00	0.00	2/2	main [25]
[6]	0.0	0.00	0.00	2	inicializaVetorAleatorio [6]
		0.00	0.00	2/3	inicializaVetorNulo [5]
		0.00	0.00	1/1	finalizaMemLog [9]
[7]	0.0	0.00	0.00	1	clkDifMemLog [7]
		0.00	0.00	1/1	main [25]
[8]	0.0	0.00	0.00	1	desativaMemLog [8]
		0.00	0.00	1/1	main [25]
[9]	0.0	0.00	0.00	1	finalizaMemLog [9]
		0.00	0.00	1/1	clkDifMemLog [7]
		0.00	0.00	1/1	main [25]
[10]	0.0	0.00	0.00	1	iniciaMemLog [10]
		0.00	0.00	1/1	main [25]
[11]	0.0	0.00	0.00	1	parse_args [11]
		0.00	0.00	1/1	main [25]
[12]	0.0	0.00	0.00	1	produtoInternoVetores [12]

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

5.2.1.3. 300

Flat profile:

Each sample counts as 0.01 seconds.
 no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	acessaVetor
0.00	0.00	0.00	3	0.00	0.00	criaVetor
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	3	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	produtoInternoVetores

 % time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

 self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

 self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

 total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of

the function in the gprof listing. If the index is
in parenthesis it shows where it would appear in
the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

```
index % time    self  children    called     name
                0.00    0.00       3/3           main [25]
[1]     0.0     0.00    0.00       3         acessaVetor [1]
-----------------------------------------------
                0.00    0.00       3/3           main [25]
[2]     0.0     0.00    0.00       3         criaVetor [2]
-----------------------------------------------
                0.00    0.00       3/3           main [25]
[3]     0.0     0.00    0.00       3         defineFaseMemLog [3]
-----------------------------------------------
                0.00    0.00       3/3           main [25]
[4]     0.0     0.00    0.00       3         destroiVetor [4]
-----------------------------------------------
                0.00    0.00       1/3           main [25]
                0.00    0.00       2/3           inicializaVetorAleatorio [6]
[5]     0.0     0.00    0.00       3         inicializaVetorNulo [5]
-----------------------------------------------
                0.00    0.00       2/2           main [25]
[6]     0.0     0.00    0.00       2         inicializaVetorAleatorio [6]
                0.00    0.00       2/3           inicializaVetorNulo [5]
-----------------------------------------------
                0.00    0.00       1/1           finalizaMemLog [9]
[7]     0.0     0.00    0.00       1         clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[8]     0.0     0.00    0.00       1         desativaMemLog [8]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[9]     0.0     0.00    0.00       1         finalizaMemLog [9]
                0.00    0.00       1/1           clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[10]    0.0     0.00    0.00       1         iniciaMemLog [10]
```

```
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]     0.0    0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]     0.0    0.00    0.00    1       produtoInternoVetores [12]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from

the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called.  Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

[1] acessaVetor [8] desativaMemLog [6] inicializaVetorAleatorio
[7] clkDifMemLog [4] destroiVetor [5] inicializaVetorNulo
[2] criaVetor [9] finalizaMemLog [11] parse_args
[3] defineFaseMemLog [10] iniciaMemLog [12] produtoInternoVetores

5.2.1.4. 400

Flat profile:

Each sample counts as 0.01 seconds.
no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	acessaVetor
0.00	0.00	0.00	3	0.00	0.00	criaVetor
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	3	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	produtoInternoVetores

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

 total   the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
         function is profiled, else blank.

name   the name of the function. This is the minor sort
         for this listing. The index shows the location of
         the function in the gprof listing. If the index is
         in parenthesis it shows where it would appear in
         the gprof listing if it were to be printed.

                     Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	acessaVetor [1]
		0.00	0.00	3/3	main [25]
[2]	0.0	0.00	0.00	3	criaVetor [2]
		0.00	0.00	3/3	main [25]
[3]	0.0	0.00	0.00	3	defineFaseMemLog [3]
		0.00	0.00	3/3	main [25]
[4]	0.0	0.00	0.00	3	destroiVetor [4]
		0.00	0.00	1/3	main [25]
		0.00	0.00	2/3	inicializaVetorAleatorio [6]
[5]	0.0	0.00	0.00	3	inicializaVetorNulo [5]
		0.00	0.00	2/2	main [25]
[6]	0.0	0.00	0.00	2	inicializaVetorAleatorio [6]
		0.00	0.00	2/3	inicializaVetorNulo [5]
		0.00	0.00	1/1	finalizaMemLog [9]
[7]	0.0	0.00	0.00	1	clkDifMemLog [7]
		0.00	0.00	1/1	main [25]
[8]	0.0	0.00	0.00	1	desativaMemLog [8]

```
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[10]    0.0     0.00    0.00    1       iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       produtoInternoVetores [12]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called. Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called. Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the cycle (as parents) and the members of the cycle (as children.) The `+' recursive calls entry shows the number of function calls that were internal to the cycle, and the calls entry for each member shows, for that member, how many times it was called from other members of the cycle.

Index by function name

5.2.1.5. 500

Flat profile:

Each sample counts as 0.01 seconds.
no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	acessaVetor
0.00	0.00	0.00	3	0.00	0.00	criaVetor
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	3	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	produtoInternoVetores

% time — the percentage of the total running time of the program used by this function.

cumulative seconds — a running sum of the number of seconds accounted for by this function and those listed above it.

self seconds — the number of seconds accounted for by this function alone. This is the major sort for this listing.

calls — the number of times this function was invoked, if

this function is profiled, else blank.

self ms/call — the average number of milliseconds spent in this function per call, if this function is profiled, else blank.

total ms/call — the average number of milliseconds spent in this function and its descendents per call, if this function is profiled, else blank.

name — the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	acessaVetor [1]
		0.00	0.00	3/3	main [25]
[2]	0.0	0.00	0.00	3	criaVetor [2]
		0.00	0.00	3/3	main [25]
[3]	0.0	0.00	0.00	3	defineFaseMemLog [3]
		0.00	0.00	3/3	main [25]
[4]	0.0	0.00	0.00	3	destroiVetor [4]
		0.00	0.00	1/3	main [25]
		0.00	0.00	2/3	inicializaVetorAleatorio [6]
[5]	0.0	0.00	0.00	3	inicializaVetorNulo [5]
		0.00	0.00	2/2	main [25]
[6]	0.0	0.00	0.00	2	inicializaVetorAleatorio [6]
		0.00	0.00	2/3	inicializaVetorNulo [5]

```
                0.00    0.00    1/1             finalizaMemLog [9]
[7]     0.0     0.00    0.00    1       clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       desativaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[10]    0.0     0.00    0.00    1       iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       produtoInternoVetores [12]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is printed after it. If the function is a member of a cycle, the cycle number is printed between the function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly from the function into this parent.

children This is the amount of time that was propagated from the function's children into this parent.

called This is the number of times this parent called the function `/' the total number of times the function was called.  Recursive calls to the function are not included in the number after the `/'.

name This is the name of the parent. The parent's index number is printed after it. If the parent is a member of a cycle, the cycle number is printed between the name and the index number.

If the parents of the function cannot be determined, the word `<spontaneous>' is printed in the `name' field, and all the other fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly from the child into the function.

children This is the amount of time that was propagated from the child's children to the function.

called This is the number of times the function called this child `/' the total number of times the child was called.  Recursive calls by the child are not listed in the number after the `/'.

name This is the name of the child. The child's index number is printed after it. If the child is a member of a cycle, the cycle number is printed between the name and the index number.

If there are any cycles (circles) in the call graph, there is an entry for the cycle-as-a-whole. This entry shows who called the

cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

5.2.2. Norma

5.2.2.1. 100

Flat profile:

Each sample counts as 0.01 seconds.
no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	1	0.00	0.00	acessaVetor
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	criaVetor
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	destroiVetor
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	1	0.00	0.00	normaVetor
0.00	0.00	0.00	1	0.00	0.00	parse_args

% time the percentage of the total running time of the program used by this function.

cumulative a running sum of the number of seconds accounted

seconds   for by this function and those listed above it.

 self   the number of seconds accounted for by this
seconds   function alone. This is the major sort for this
         listing.

calls   the number of times this function was invoked, if
         this function is profiled, else blank.

 self   the average number of milliseconds spent in this
ms/call function per call, if this function is profiled,
         else blank.

 total   the average number of milliseconds spent in this
ms/call function and its descendents per call, if this
         function is profiled, else blank.

name   the name of the function. This is the minor sort
         for this listing. The index shows the location of
         the function in the gprof listing. If the index is
         in parenthesis it shows where it would appear in
         the gprof listing if it were to be printed.

                     Call graph (explanation follows)

granularity: each sample hit covers 2 byte(s) no time propagated

```
index % time    self  children    called     name
                0.00    0.00       3/3           main [25]
[1]     0.0     0.00    0.00       3         defineFaseMemLog [1]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[2]     0.0     0.00    0.00       1         acessaVetor [2]
-----------------------------------------------
                0.00    0.00       1/1           finalizaMemLog [7]
[3]     0.0     0.00    0.00       1         clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[4]     0.0     0.00    0.00       1         criaVetor [4]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
```

```
[5]     0.0    0.00    0.00    1       desativaMemLog [5]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[6]     0.0    0.00    0.00    1       destroiVetor [6]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[7]     0.0    0.00    0.00    1       finalizaMemLog [7]
                0.00    0.00    1/1             clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0    0.00    0.00    1       iniciaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0    0.00    0.00    1       inicializaVetorAleatorio [9]
                0.00    0.00    1/1             inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [9]
[10]    0.0    0.00    0.00    1       inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0    0.00    0.00    1       normaVetor [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0    0.00    0.00    1       parse_args [12]
-----------------------------------------------
```

This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.

Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:

index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.

% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.

self This is the total amount of time spent in this function.

children This is the total amount of time propagated into this
function by its children.

called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.

name The name of the current function. The index number is
printed after it. If the function is a member of a
cycle, the cycle number is printed between the
function's name and the index number.

For the function's parents, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the function into this parent.

children This is the amount of time that was propagated from
the function's children into this parent.

called This is the number of times this parent called the
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.

name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.

If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.

For the function's children, the fields have the following meanings:

self This is the amount of time that was propagated directly
from the child into the function.

children This is the amount of time that was propagated from the
child's children to the function.

called This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.

name This is the name of the child. The child's index

number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.

If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.

Index by function name

[2] acessaVetor [5] desativaMemLog [9] inicializaVetorAleatorio
[3] clkDifMemLog [6] destroiVetor [10] inicializaVetorNulo
[4] criaVetor [7] finalizaMemLog [11] normaVetor
[1] defineFaseMemLog [8] iniciaMemLog [12] parse_args

5.2.2.2. 200

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	1	0.00	0.00	acessaVetor
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	criaVetor
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	destroiVetor
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	1	0.00	0.00	normaVetor
0.00	0.00	0.00	1	0.00	0.00	parse_args

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	defineFaseMemLog [1]

```
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[2]     0.0     0.00    0.00    1       acessaVetor [2]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [7]
[3]     0.0     0.00    0.00    1       clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[4]     0.0     0.00    0.00    1       criaVetor [4]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[5]     0.0     0.00    0.00    1       desativaMemLog [5]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[6]     0.0     0.00    0.00    1       destroiVetor [6]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[7]     0.0     0.00    0.00    1       finalizaMemLog [7]
                0.00    0.00    1/1             clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       iniciaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       inicializaVetorAleatorio [9]
                0.00    0.00    1/1             inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [9]
[10]    0.0     0.00    0.00    1       inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       normaVetor [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       parse_args [12]
-----------------------------------------------
```

5.2.2.3. 300

```
  %   cumulative   self              self     total
 time   seconds   seconds    calls  Ts/call  Ts/call  name
  0.00    0.00     0.00        3     0.00     0.00  defineFaseMemLog
  0.00    0.00     0.00        1     0.00     0.00  acessaVetor
  0.00    0.00     0.00        1     0.00     0.00  clkDifMemLog
  0.00    0.00     0.00        1     0.00     0.00  criaVetor
  0.00    0.00     0.00        1     0.00     0.00  desativaMemLog
```

```
  0.00   0.00     0.00     1          0.00     0.00  destroiVetor
  0.00   0.00     0.00     1          0.00     0.00  finalizaMemLog
  0.00   0.00     0.00     1          0.00     0.00  iniciaMemLog
  0.00   0.00     0.00     1          0.00     0.00  inicializaVetorAleatorio
  0.00   0.00     0.00     1          0.00     0.00  inicializaVetorNulo
  0.00   0.00     0.00     1          0.00     0.00  normaVetor
  0.00   0.00     0.00     1          0.00     0.00  parse_args

index % time    self  children    called     name
                0.00    0.00       3/3           main [25]
[1]      0.0    0.00    0.00       3         defineFaseMemLog [1]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[2]      0.0    0.00    0.00       1         acessaVetor [2]
-----------------------------------------------
                0.00    0.00       1/1           finalizaMemLog [7]
[3]      0.0    0.00    0.00       1         clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[4]      0.0    0.00    0.00       1         criaVetor [4]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[5]      0.0    0.00    0.00       1         desativaMemLog [5]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[6]      0.0    0.00    0.00       1         destroiVetor [6]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[7]      0.0    0.00    0.00       1         finalizaMemLog [7]
                0.00    0.00       1/1           clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[8]      0.0    0.00    0.00       1         iniciaMemLog [8]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[9]      0.0    0.00    0.00       1         inicializaVetorAleatorio [9]
                0.00    0.00       1/1           inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00       1/1           inicializaVetorAleatorio [9]
[10]     0.0    0.00    0.00       1         inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[11]     0.0    0.00    0.00       1         normaVetor [11]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[12]     0.0    0.00    0.00       1         parse_args [12]
-----------------------------------------------
```

5.2.2.4. 400

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	1	0.00	0.00	acessaVetor
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	criaVetor
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	destroiVetor
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	1	0.00	0.00	normaVetor
0.00	0.00	0.00	1	0.00	0.00	parse_args

index	% time	self	children	called	name
		0.00	0.00	3/3	main [25]
[1]	0.0	0.00	0.00	3	defineFaseMemLog [1]
		0.00	0.00	1/1	main [25]
[2]	0.0	0.00	0.00	1	acessaVetor [2]
		0.00	0.00	1/1	finalizaMemLog [7]
[3]	0.0	0.00	0.00	1	clkDifMemLog [3]
		0.00	0.00	1/1	main [25]
[4]	0.0	0.00	0.00	1	criaVetor [4]
		0.00	0.00	1/1	main [25]
[5]	0.0	0.00	0.00	1	desativaMemLog [5]
		0.00	0.00	1/1	main [25]
[6]	0.0	0.00	0.00	1	destroiVetor [6]
		0.00	0.00	1/1	main [25]
[7]	0.0	0.00	0.00	1	finalizaMemLog [7]
		0.00	0.00	1/1	clkDifMemLog [3]
		0.00	0.00	1/1	main [25]
[8]	0.0	0.00	0.00	1	iniciaMemLog [8]
		0.00	0.00	1/1	main [25]
[9]	0.0	0.00	0.00	1	inicializaVetorAleatorio [9]
		0.00	0.00	1/1	inicializaVetorNulo [10]

```
                0.00    0.00    1/1             inicializaVetorAleatorio [9]
[10]    0.0     0.00    0.00    1       inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       normaVetor [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       parse_args [12]
-----------------------------------------------
```

5.2.2.5. 500

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	1	0.00	0.00	acessaVetor
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	criaVetor
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	destroiVetor
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	1	0.00	0.00	normaVetor
0.00	0.00	0.00	1	0.00	0.00	parse_args

```
index % time    self  children    called     name
                0.00    0.00    3/3             main [25]
[1]     0.0     0.00    0.00    3       defineFaseMemLog [1]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[2]     0.0     0.00    0.00    1       acessaVetor [2]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [7]
[3]     0.0     0.00    0.00    1       clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[4]     0.0     0.00    0.00    1       criaVetor [4]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[5]     0.0     0.00    0.00    1       desativaMemLog [5]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[6]     0.0     0.00    0.00    1       destroiVetor [6]
```

```
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[7]     0.0     0.00    0.00    1       finalizaMemLog [7]
                0.00    0.00    1/1             clkDifMemLog [3]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       iniciaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       inicializaVetorAleatorio [9]
                0.00    0.00    1/1             inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             inicializaVetorAleatorio [9]
[10]    0.0     0.00    0.00    1       inicializaVetorNulo [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       normaVetor [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       parse_args [12]
-----------------------------------------------
```

5.2.3. Soma

5.2.3.1. 100

```
  %   cumulative   self              self     total
 time   seconds   seconds    calls  Ts/call  Ts/call  name
  0.00      0.00     0.00        4     0.00     0.00  acessaVetor
  0.00      0.00     0.00        4     0.00     0.00  criaVetor
  0.00      0.00     0.00        4     0.00     0.00  inicializaVetorNulo
  0.00      0.00     0.00        3     0.00     0.00  defineFaseMemLog
  0.00      0.00     0.00        3     0.00     0.00  destroiVetor
  0.00      0.00     0.00        2     0.00     0.00  inicializaVetorAleatorio
  0.00      0.00     0.00        1     0.00     0.00  clkDifMemLog
  0.00      0.00     0.00        1     0.00     0.00  desativaMemLog
  0.00      0.00     0.00        1     0.00     0.00  finalizaMemLog
  0.00      0.00     0.00        1     0.00     0.00  iniciaMemLog
  0.00      0.00     0.00        1     0.00     0.00  parse_args
  0.00      0.00     0.00        1     0.00     0.00  somaVetores

index % time    self  children    called     name
                0.00    0.00       4/4             main [25]
[1]     0.0     0.00    0.00       4       acessaVetor [1]
-----------------------------------------------
                0.00    0.00       1/4             somaVetores [12]
                0.00    0.00       3/4             main [25]
[2]     0.0     0.00    0.00       4       criaVetor [2]
-----------------------------------------------
```

```
                0.00    0.00    1/4             main [25]
                0.00    0.00    1/4             somaVetores [12]
                0.00    0.00    2/4             inicializaVetorAleatorio [6]
[3]     0.0     0.00    0.00    4       inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[4]     0.0     0.00    0.00    3       defineFaseMemLog [4]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[5]     0.0     0.00    0.00    3       destroiVetor [5]
-----------------------------------------------
                0.00    0.00    2/2             main [25]
[6]     0.0     0.00    0.00    2       inicializaVetorAleatorio [6]
                0.00    0.00    2/4             inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [9]
[7]     0.0     0.00    0.00    1       clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       desativaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[10]    0.0     0.00    0.00    1       iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       somaVetores [12]
                0.00    0.00    1/4             criaVetor [2]
                0.00    0.00    1/4             inicializaVetorNulo [3]
-----------------------------------------------
```

5.2.3.2. 200

```
  %   cumulative   self              self     total
 time   seconds   seconds    calls  Ts/call  Ts/call  name
 0.00    0.00     0.00        4      0.00     0.00  acessaVetor
 0.00    0.00     0.00        4      0.00     0.00  criaVetor
 0.00    0.00     0.00        4      0.00     0.00  inicializaVetorNulo
```

```
  0.00   0.00     0.00      3         0.00     0.00  defineFaseMemLog
  0.00   0.00     0.00      3         0.00     0.00  destroiVetor
  0.00   0.00     0.00      2         0.00     0.00  inicializaVetorAleatorio
  0.00   0.00     0.00      1         0.00     0.00  clkDifMemLog
  0.00   0.00     0.00      1         0.00     0.00  desativaMemLog
  0.00   0.00     0.00      1         0.00     0.00  finalizaMemLog
  0.00   0.00     0.00      1         0.00     0.00  iniciaMemLog
  0.00   0.00     0.00      1         0.00     0.00  parse_args
  0.00   0.00     0.00      1         0.00     0.00  somaVetores

index % time    self  children    called     name
                0.00    0.00     4/4           main [25]
[1]      0.0    0.00    0.00       4         acessaVetor [1]
-----------------------------------------------
                0.00    0.00     1/4           somaVetores [12]
                0.00    0.00     3/4           main [25]
[2]      0.0    0.00    0.00       4         criaVetor [2]
-----------------------------------------------
                0.00    0.00     1/4           main [25]
                0.00    0.00     1/4           somaVetores [12]
                0.00    0.00     2/4           inicializaVetorAleatorio [6]
[3]      0.0    0.00    0.00       4         inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00     3/3           main [25]
[4]      0.0    0.00    0.00       3         defineFaseMemLog [4]
-----------------------------------------------
                0.00    0.00     3/3           main [25]
[5]      0.0    0.00    0.00       3         destroiVetor [5]
-----------------------------------------------
                0.00    0.00     2/2           main [25]
[6]      0.0    0.00    0.00       2         inicializaVetorAleatorio [6]
                0.00    0.00     2/4           inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00     1/1           finalizaMemLog [9]
[7]      0.0    0.00    0.00       1         clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00     1/1           main [25]
[8]      0.0    0.00    0.00       1         desativaMemLog [8]
-----------------------------------------------
                0.00    0.00     1/1           main [25]
[9]      0.0    0.00    0.00       1         finalizaMemLog [9]
                0.00    0.00     1/1           clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00     1/1           main [25]
[10]     0.0    0.00    0.00       1         iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00     1/1           main [25]
[11]     0.0    0.00    0.00       1         parse_args [11]
```

```
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]     0.0    0.00    0.00    1       somaVetores [12]
                0.00    0.00    1/4             criaVetor [2]
                0.00    0.00    1/4             inicializaVetorNulo [3]
-----------------------------------------------
```

5.2.3.3. 300

Flat profile:

Each sample counts as 0.01 seconds.
 no time accumulated

% time	cumulative seconds	self seconds	calls	self Ts/call	total Ts/call	name
0.00	0.00	0.00	4	0.00	0.00	acessaVetor
0.00	0.00	0.00	4	0.00	0.00	criaVetor
0.00	0.00	0.00	4	0.00	0.00	inicializaVetorNulo
0.00	0.00	0.00	3	0.00	0.00	defineFaseMemLog
0.00	0.00	0.00	3	0.00	0.00	destroiVetor
0.00	0.00	0.00	2	0.00	0.00	inicializaVetorAleatorio
0.00	0.00	0.00	1	0.00	0.00	clkDifMemLog
0.00	0.00	0.00	1	0.00	0.00	desativaMemLog
0.00	0.00	0.00	1	0.00	0.00	finalizaMemLog
0.00	0.00	0.00	1	0.00	0.00	iniciaMemLog
0.00	0.00	0.00	1	0.00	0.00	parse_args
0.00	0.00	0.00	1	0.00	0.00	somaVetores

```
index % time    self  children    called     name
                0.00    0.00    4/4             main [25]
[1]      0.0    0.00    0.00    4       acessaVetor [1]
-----------------------------------------------
                0.00    0.00    1/4             somaVetores [12]
                0.00    0.00    3/4             main [25]
[2]      0.0    0.00    0.00    4       criaVetor [2]
-----------------------------------------------
                0.00    0.00    1/4             main [25]
                0.00    0.00    1/4             somaVetores [12]
                0.00    0.00    2/4             inicializaVetorAleatorio [6]
[3]      0.0    0.00    0.00    4       inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[4]      0.0    0.00    0.00    3       defineFaseMemLog [4]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[5]      0.0    0.00    0.00    3       destroiVetor [5]
-----------------------------------------------
```

```
                0.00    0.00    2/2             main [25]
[6]     0.0     0.00    0.00    2       inicializaVetorAleatorio [6]
                0.00    0.00    2/4             inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [9]
[7]     0.0     0.00    0.00    1       clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       desativaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[10]    0.0     0.00    0.00    1       iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       somaVetores [12]
                0.00    0.00    1/4             criaVetor [2]
                0.00    0.00    1/4             inicializaVetorNulo [3]
-----------------------------------------------
```

5.2.3.4. 400

```
  %   cumulative   self              self     total
 time   seconds   seconds    calls  Ts/call  Ts/call  name
  0.00   0.00     0.00       4        0.00     0.00  acessaVetor
  0.00   0.00     0.00       4        0.00     0.00  criaVetor
  0.00   0.00     0.00       4        0.00     0.00  inicializaVetorNulo
  0.00   0.00     0.00       3        0.00     0.00  defineFaseMemLog
  0.00   0.00     0.00       3        0.00     0.00  destroiVetor
  0.00   0.00     0.00       2        0.00     0.00  inicializaVetorAleatorio
  0.00   0.00     0.00       1        0.00     0.00  clkDifMemLog
  0.00   0.00     0.00       1        0.00     0.00  desativaMemLog
  0.00   0.00     0.00       1        0.00     0.00  finalizaMemLog
  0.00   0.00     0.00       1        0.00     0.00  iniciaMemLog
  0.00   0.00     0.00       1        0.00     0.00  parse_args
  0.00   0.00     0.00       1        0.00     0.00  somaVetores

index % time    self  children    called     name
                0.00    0.00    4/4             main [25]
[1]     0.0     0.00    0.00    4       acessaVetor [1]
```

```
-----------------------------------------------
                0.00    0.00    1/4             somaVetores [12]
                0.00    0.00    3/4             main [25]
[2]     0.0     0.00    0.00    4       criaVetor [2]
-----------------------------------------------
                0.00    0.00    1/4             main [25]
                0.00    0.00    1/4             somaVetores [12]
                0.00    0.00    2/4             inicializaVetorAleatorio [6]
[3]     0.0     0.00    0.00    4       inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[4]     0.0     0.00    0.00    3       defineFaseMemLog [4]
-----------------------------------------------
                0.00    0.00    3/3             main [25]
[5]     0.0     0.00    0.00    3       destroiVetor [5]
-----------------------------------------------
                0.00    0.00    2/2             main [25]
[6]     0.0     0.00    0.00    2       inicializaVetorAleatorio [6]
                0.00    0.00    2/4             inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00    1/1             finalizaMemLog [9]
[7]     0.0     0.00    0.00    1       clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[8]     0.0     0.00    0.00    1       desativaMemLog [8]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[9]     0.0     0.00    0.00    1       finalizaMemLog [9]
                0.00    0.00    1/1             clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[10]    0.0     0.00    0.00    1       iniciaMemLog [10]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       somaVetores [12]
                0.00    0.00    1/4             criaVetor [2]
                0.00    0.00    1/4             inicializaVetorNulo [3]
-----------------------------------------------
```

5.2.3.5. 500

```
  %   cumulative   self              self     total
 time   seconds   seconds    calls  Ts/call  Ts/call  name
 0.00    0.00     0.00        4      0.00     0.00  acessaVetor
```

```
  0.00    0.00    0.00      4         0.00    0.00  criaVetor
  0.00    0.00    0.00      4         0.00    0.00  inicializaVetorNulo
  0.00    0.00    0.00      3         0.00    0.00  defineFaseMemLog
  0.00    0.00    0.00      3         0.00    0.00  destroiVetor
  0.00    0.00    0.00      2         0.00    0.00  inicializaVetorAleatorio
  0.00    0.00    0.00      1         0.00    0.00  clkDifMemLog
  0.00    0.00    0.00      1         0.00    0.00  desativaMemLog
  0.00    0.00    0.00      1         0.00    0.00  finalizaMemLog
  0.00    0.00    0.00      1         0.00    0.00  iniciaMemLog
  0.00    0.00    0.00      1         0.00    0.00  parse_args
  0.00    0.00    0.00      1         0.00    0.00  somaVetores

index % time    self  children    called     name
                0.00    0.00       4/4           main [25]
[1]     0.0     0.00    0.00       4         acessaVetor [1]
-----------------------------------------------
                0.00    0.00       1/4           somaVetores [12]
                0.00    0.00       3/4           main [25]
[2]     0.0     0.00    0.00       4         criaVetor [2]
-----------------------------------------------
                0.00    0.00       1/4           main [25]
                0.00    0.00       1/4           somaVetores [12]
                0.00    0.00       2/4           inicializaVetorAleatorio [6]
[3]     0.0     0.00    0.00       4         inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00       3/3           main [25]
[4]     0.0     0.00    0.00       3         defineFaseMemLog [4]
-----------------------------------------------
                0.00    0.00       3/3           main [25]
[5]     0.0     0.00    0.00       3         destroiVetor [5]
-----------------------------------------------
                0.00    0.00       2/2           main [25]
[6]     0.0     0.00    0.00       2         inicializaVetorAleatorio [6]
                0.00    0.00       2/4           inicializaVetorNulo [3]
-----------------------------------------------
                0.00    0.00       1/1           finalizaMemLog [9]
[7]     0.0     0.00    0.00       1         clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[8]     0.0     0.00    0.00       1         desativaMemLog [8]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[9]     0.0     0.00    0.00       1         finalizaMemLog [9]
                0.00    0.00       1/1           clkDifMemLog [7]
-----------------------------------------------
                0.00    0.00       1/1           main [25]
[10]    0.0     0.00    0.00       1         iniciaMemLog [10]
-----------------------------------------------
```

```
                0.00    0.00    1/1             main [25]
[11]    0.0     0.00    0.00    1       parse_args [11]
-----------------------------------------------
                0.00    0.00    1/1             main [25]
[12]    0.0     0.00    0.00    1       somaVetores [12]
                0.00    0.00    1/4             criaVetor [2]
                0.00    0.00    1/4             inicializaVetorNulo [3]
-----------------------------------------------
```