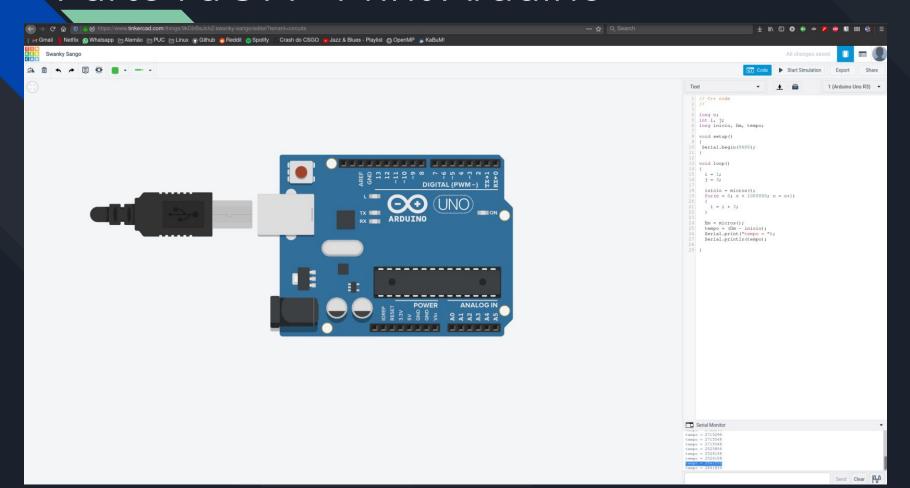
Atividade Prática 5

Gabriel Cassino
Paulo Henrique
Welbert Almeida

Parte 1 a 3 A – Print Arduino



Parte 1 a 3 B – Arduino 1 e máquina 1

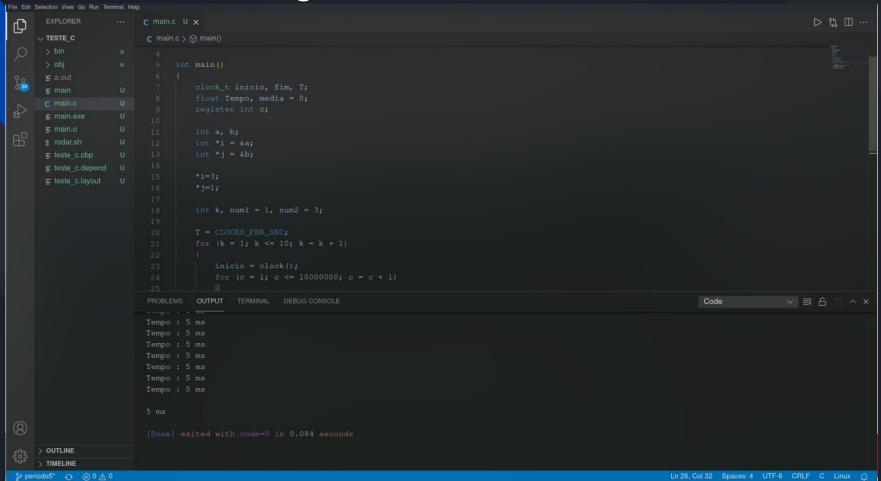
8				11.				
	Modalidade		Use para o tes				o teste (i	
	Tipo	Tempo base	Soma	Qr	Mult.	Soma	Qr	Mult.
Arduino	byte	2462956	62900	63111	189444	189440	378880	378880
10	int	2715292	757992	63360	315984	379132	505176	884300
tentativas	float	3220712	9216888	N/A	7135452	9469720	N/A	7388288
		ės.		40			5	
Desktop	sbar	2,2	13,8	0,5	15,8	14,8	4,2	16,8
10 vezes com	int	2,6	0,4	3,6	1,4	0,5	5,5	3,8
1x10^7	*int	2,2	1,3	0,1	3,4	2,8	8,4	6
instruções	float	3,2	24,6	N/A	22,8	41,4	N/A	39,8
	c.	51		55		58 6		
-	2		J.					
			. N	UPS				
	Modalidade	e do teste	Use para o tes	te (i=igp	3)	Use para	o teste (i	=igpj)
		Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.
		byte	15,8982511923688	15,8451	5,278605	5,278716	2,639358	2,639358
	Arduino	int	1,31927513746847	15,78283	3,164717	2,637604	1,979508	1,130838
	10 tentativas		40	MELO	PS	100		
		float	0,10849649035553	N/A	0,140145	0,1056	N/A	0,135349
ì		shar	724,63768115942	20000	632,9114	588,2353	2380,952	595,2381
	Desktop 10	int	25000	2777,778	7142,857	3225,806	1818,182	2631,579
	vezes com 1x10^7	*int	7692,30769230769	100000	2941,176	2000	1190,476	1666,667
	instruções		40	MFLO	PS	190		100
		float	406,50406504065	N/A	438,5965	241,5459	N/A	251,2563
				er v				
	2 10 11 11 11			,				
	Frequencia	em Mhz	Quant de op 1x10^6					
	Arduine	16	1					
	Desktop	4600	10					
				CPI		50		
	Modalidade	e do teste	Use para o tes	te (i = igp	3)	Use para	o teste (i	=igpj)
		Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.
	40.00	byte	1,0064	1,009776	3,031104	3,03104	6,06208	6,06208
	Arduino 10 tentativas	int	12,127872	1,01376	5,055744	6,066112	8,082816	14,1488
	10 teritativas	float	147,470208	N/A	114,1672	151,5155	N/A	118,2126
	Desktop 10	sbar	6,348	0,23	7,268	7,82	1,932	7,728
	vezes com	int	0,184	1,656	0,644	1,426	2,53	1,748
	1x10^7	*int	0,598	0,046	1,564	2,3	3,864	2,76
	instruções	float	11,316	N/A	10,488	19,044	N/A	18,308
		Core		350		-		Core P.

		Tempo Ap	urado (ms)				
Use para	o teste (i	=igg3)	Use para o teste (i = i opj)				
Soma	Qr	Mult.	Soma	Or .	Mult.		
2525856	2526067	2652400	2652396	2841836	2841836		
3473284	2778652	3031276	3094424	3220468	3599592		
12437600	N/A	10356164	12690432	N/A	10609000		
					100		
16	2,7	18	17	6,4	19		
3	6,2	4	3,1	8,1	6,4		
3,5	2,3	5,6	5	10,6	8,2		
27,8	N/A	26	44,6	N/A	43		

Parte 2 – PassMark Benchmark

File Edit View Terminal Tabs Help PassMark PerformanceTest Linux AMD Ryzen 5 5600X 6-Core Processor (x86_64) 6 cores @ 4932 MHz | 31.3 GiB RAM Number of Processes: 12 | Test Iterations: 1 | Test Duration: Medium CPU Mark: 22942 Integer Math 69505 Million Operations/s Floating Point Math 39196 Million Operations/s 123 Million Primes/s Prime Numbers Sorting 32771 Thousand Strings/s Encryption 17812 MB/s Compression 261 MB/s CPU Single Threaded 3400 Million Operations/s Physics 1734 Frames/s Extended Instructions (SSE) 15003 Million Matrices/s Memory Mark: 3025 6073 Thousand Operations/s Database Operations Memory Read Cached 34662 MB/s Memory Read Uncached 22217 MB/s Memory Write 14624 MB/s Available RAM 24948 Megabytes Memory Latency 51 Nanoseconds Memory Threaded 35628 MB/s Results submitted: https://www.passmark.com/baselines/V10/display.php?id=500694756009 Use ESC or CTRL-C to exit A: Run All Tests C: Run CPU Tests M: Run Memory Tests U: Upload Test Results

Parte 3 – Print Código em C



Parte 1 a 3 – Arduino 2 e máquina 2

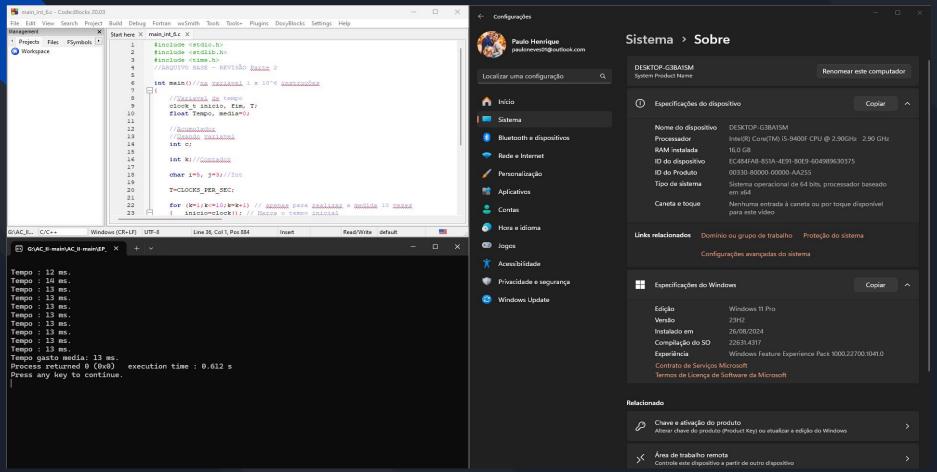
	Modalidade do teste		Use para o teste (i=igg3)		Use para o teste (i=igpj)	-
	Tipo	Tempo base	Soma	Qr	Mult.	Soma	Qr	Mult.
40000	byte	2462716	63145	63145	189439	189439	189439	378877
Arduino 10 tentativas	int	2715301	126294	63144	315732	378879	378879	884049
10 telitativas	float	3220472	9217129	N/A	7135697	9469715	N/A	7388284
8					0			(6)
Desktop 10	shar	17,3	0,099999999999999	0,2	-1,2	-2,8	-4,7	0,5
vezes com	int	17,2	0,100000000000001	0,4	-0,9	-4,2	-4,3	0,8
1x10^7	*int	19,1	0,099999999999999	0,1	-0,8	-0,300000000000001	-0,8	-0,5
instruções	float	17	5,4	N/A	899,1	6	N/A	1163,1
8		3				31		- 13
								100
	e.			MIPS				35
	Modalidad	de do teste	Use para o teste (Use para o teste (i=igpj)	
	J. J.	Tipo	Soma	Qr	Mult.	Soma	Qr.	Mult.
		byte	15,8365666323541	15,83657	5,278744	5,2787440812082	A STATE OF THE PARTY OF THE PAR	2,639379
	Arduino 10	int	7,91803252727762	15,83682	3,167243	2,63936507433772	2,639365	1,131159
	tentativas			Į.	MFLOPS			
	×	float	0,108493653500998	N/A	0,14014	0,105599798937983	N/A	0,135349
	10			V.	(1)	30		
	2 23 2	char	100000,000000002	50000	-8333,33	689,655172413793	-2127,66	20000
4	Desktop 10	int	99999,999999986	25000	-11111,1	769,230769230769	-2325,58	12500
	vezes com 1x10^7	*int	100000,000000002	100000	-12500	531,914893617021	-12500	-20000
	instruções				MFLOPS			- 1
		float	1851,85185185	N/A	11,12223	1666,6666666667	N/A	8,597713
		8			0	gi i		4
d		ja em Mhz	Quant de op 1x10^6					
	Arduina	16	1					
	Desktop	2900	10					
								167
				CPI				
	Modalidade do teste		Use para o teste (00.		Use para o teste (041-	-
	la la	Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.
	Arduino	byte	1,01032	1,01032	3,031024	3,031024		6,062032
	10	int	2,020704		5,051712	6,062064		14,14478
	tentativas	float	147,474064	N/A	114,1712	151,51544	N/A	118,2125
						S1		14
10	Desktop 10	shar	0,028999999999994	0,058	-0,348	4,205	-1,363	0,145
	vezes com	int	0,0290000000000004	0,116	-0,261	3,77	-1,247	0,232
	1x10^7 instruções	*int	0,028999999999994	0,029	-0,232	5,452	-0,232	-0,145
	mstruções	float	1,566	N/A	260,739	1,74	N/A	337,299
				v .	Ci.	1		-
		-				1		

		Tempo Ap	urado (ms)			
Use para o teste (i = i op 3)			Use para o teste (i = i op j)			
Soma	Qr	Mult.	Soma	Qr.	Mult.	
2525861	2525861	2652155	2652155	2652155	2841593	
2841595	2778445	3031033	3094180	3094180	3599350	
12437601	N/A	10356169	12690187	N/A	10608756	
	** ***				*********	
17,4	17,5	16,1	14,5	12,6	17,8	
17,3	17,6	16,3	13	12,9	18	
19,2	19,2	18,3	18,8	18,3	18,6	
22,4	N/A	916,1	23	N/A	1180,1	

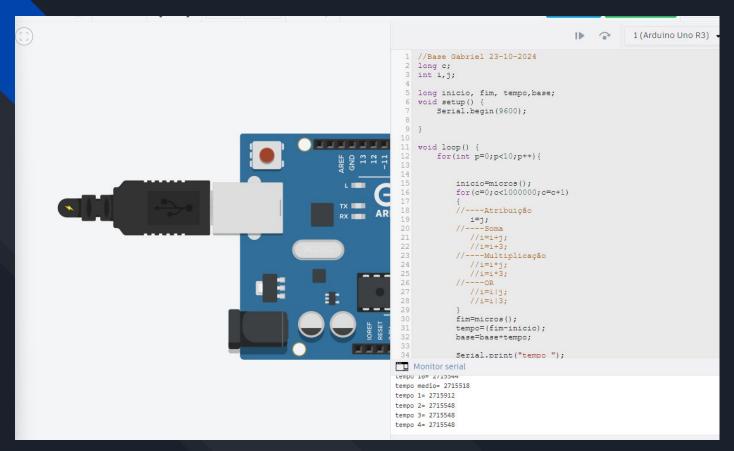
Parte 3 B – Print Passmark - máquina 2

PerformanceTest 1	11.0 Evaluation Version								- 0
ile Edit Vi	ew Tests Advanced	Baseline Help							
♠ ⊕	SYSTEM INFO	RMATION							
		This Computer	Baseline #1	Baseline #2	Baseline #3	Baseline #4	Baseline #5	Baseline #6	Baseline
PASSMARK	System Information —— System Name	DESKTOP-G3BA1SM	·					<u>, </u>	
PASSWARK	Model								
RUN	Operating System Motherboard Manufacturer	Windows 11 Professional Edition build ASUSTEK COMPUTER INC.		Windows 11 Professional Edition build ASUSTeK COMPUTER INC.	Windows 10 Professional Edition build Gigabyte Technology Co., Ltd.	. Windows 10 Home build 19045 (64-bit) LENOVO	Windows 11 Home build 22621 (64-bit) LENOVO	Windows 11 Home build 22621 (64-bit) Microsoft Corporation	Windows 10 Professional Ed ASUSTeK COMPUTER INC
CPU MARK	Motherboard Model	TUF H310M-PLUS GAMING/BR	Gigabyte Technology Co., Ltd. Z370 HD3-CF	PRIME Z690-P	X570 AORUS MASTER	20MF000BUS	LNVNB161216	Surface Laptop 4	PRIME X399-A
JUU	Motherboard Version	Rev X.0x		Rev 1.xx	Default string	SDK0R32862 WIN	SDK0T76461 WIN	Surface Laptop 4	Rev 1.xx
RUN	BIOS Manufacturer	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.	American Megatrends International, L	LENOVO	LENOVO	Microsoft Corporation	American Megatrends Inc.
AM (1990)	BIOS Version	2811			F36b	LENOVO - 1250	J2CN45WW	3.303.140	0318
2D MARK	BIOS Release Date	2020/05/27	2017/09/06	2022/08/12	2022/02/16	2019/10/28	2022/08/26	2022/09/14	2017/08/11
A	Power Source	AC							
RUN	Power Mode	N/A				Maximum performance	Maximum performance	Maximum performance	
3D MARK									
F436	CPU Information ———								
RUN	Manufacturer	GenuineIntel	GenuineIntel	GenuineIntel	AuthenticAMD	GenuineIntel	GenuineIntel	AuthenticAMD	AuthenticAMD
MEMORY MARK	Туре	Intel Core i5-9400F @ 2.90GHz	Intel Core i7-8700K @ 3.70GHz		AMD Ryzen 9 3900 12-Core	Intel Core i7-8750H @ 2.20GHz	12th Gen Intel Core i7-12700H	AMD Ryzen 5 Microsoft Surface Edition	AMD Ryzen Threadripper 1:
	Codename	Coffee Lake	Coffee Lake	Alder Lake		Coffee Lake	Alder Lake		
RUN	CPUID	Family 6, Model 9E, Stepping A	Family 6, Model 9E, Stepping A	Family 6, Model 97, Stepping 2	Family 17, Model 71, Stepping 0	Family 6, Model 9E, Stepping A	Family 6, Model 9A, Stepping 3	Family 17, Model 60, Stepping 1	Family 17, Model 1, Steppin
10.00000	Socket	LGA 1151	LGA 1151 14nm	LGA 1700		LGA 1151 14nm	BGA 1744		
DISK MARK	Lithography Number of CPU's	14nm	14nm	10nm			10nm		
	Total Cores per CPU	6							
RUN	Total Threads per CPU	6							
	P-Cores per CPU	6							
	E-Cores per CPU	N/A							
	Clock Frequencies	N/A							
	Measured Speed	2904.2 MHz [Turbo: 3905.6 MHz]	3696.2 MHz [Turbo: 4395.5 MHz]	3687.4 MHz [Turbo: 4883.3 MHz]	3100.6 MHz	2208.1 MHz [Turbo: 3814.0 MHz]	2290.2 MHz [Turbo: 4381.3 MHz]	2196.1 MHz	3393.8 MHz
	Multiplier	29.0X	37.0X	37.0X	(N/A)	22.0X	23.0X	(N/A)	(N/A)
	Bus Speed	100.1 MHz	99.9 MHz	99.7 MHz	(N/A)	100.4 MHz	99.6 MHz	(N/A)	(N/A)
	Front Side Bus Speed	(N/A)							
	Timing Error Ratio	1.000							
	Cache per CPU package								
	L1 Instruction Cache	6 x 32 KB							
	L1 Data Cache	6 x 32 KB							
	L2 Cache Size	6 x 256 KB							
	L3 Cache	9 MB							
	Memory Information —								
	Total Physical Memory	16GB RAM	32GB RAM	32GB RAM	32GB RAM	16GB RAM	32GB RAM	15GB RAM	64GB RAM
	Total Physical Memory Available Physical Memory	11GB RAM	21GB RAM	25GB RAM	32GB RAM 25GB RAM	5GB RAM	32GB RAM 23GB RAM	11GB RAM	58GB RAM
	Transfer Rate	2666 MT/s	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Memory timings	16-18-18-38							
	Channel mode	2							
	Charlie mode	2	IVA	10/A	IVA	14/7	WA	IVA	11/7

Parte 3 A – Print Código em C - máquina 2



Parte 1 a 3 A – Arduino 3

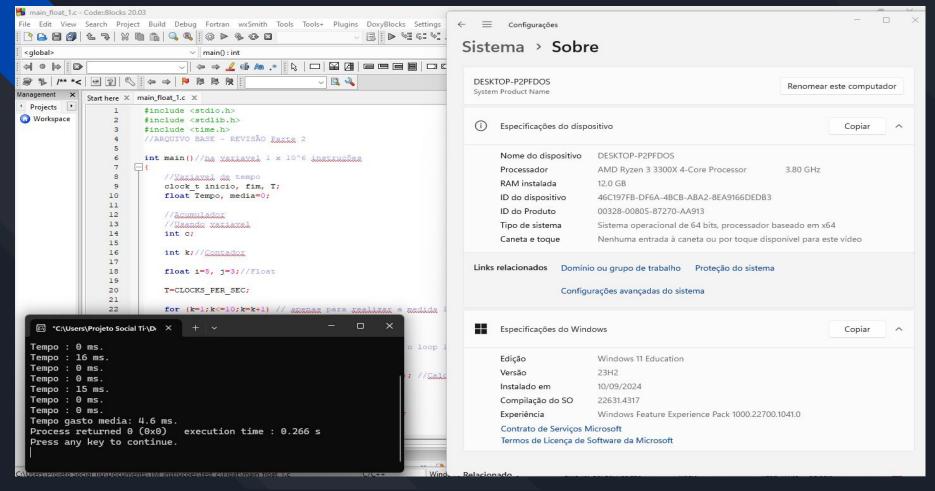


Parte 1 a 3 B – máquina 3

i i	Modalida	de do teste	Use para o	teste (i = i gg	3)	Use pa	ara o teste (i =	igpj)
	Tipo	Tempo base	Soma	Or	Mult.	Soma	Or	Mult.
Arduino	byte	2462933	63190	63134	189426	189426	189426	631465
10	int	2715518	126295	63134	315734	378879	378866	884111
tentativas	float	3220690	10887323	N/A	5241145	6504070	N/A	5809462
		2 11111			177		0.00	
Desktop 10	sbar	6,2	10,9	10,9	14,1	12,5	9,4	17,2
vezes com	int	4,6	2	3,2	3,2	3,2	4,7	6,3
1x10^7	*int	9,9	8,5	8,6	10,9	9,2	9,1	13,6
instruções	float	7	18,4	N/A	18,43	18,41	N/A	18,42
		0		S			20 10	
			i i	1			10	
				MIPS				
1	Modalida	de do teste	Use para o	teste (i = i gg	(3)	Use pa	ara o teste (i =	igpj)
	111111111111111111111111111111111111111	Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.
		byte	15,8252888115208	15,83932588	5,279106353	5,279106353	5,279106353	1,583619045
	Arduine	int	7,91796983253494	15,83932588	3,167223042	2,639365074	2,639455639	1,131079695
	tentativas	1	7.5135	Ū	MELOPS			1
		float	0,091849943278068	N/A	0,190798003	0,153749883	N/A	0,172132979
					-			the supplier of
	Desktop	sbar	917,43119266055	917,4311927	709,2198582	534,7593583	1063,829787	581,3953488
	10 vezes	int	5000	3125	3125	1282,051282	2127,659574	1587,301587
	com	*int	1176,47058823529	1162,790698	917,4311927	523,5602094	1098,901099	735,2941176
	1x10^7 instrucões			J	MELOPS			
	matruções	float	543,478260869565	N/A	542,5935974	543,1830527	N/A	542,888165
	-					8	2.	
			Y					
	Frequence	ja em Mhz	Quant de op 1x10^6					
	Arduine	16	1					
	Desktop	3800	10					
				P			22	
				CPI				
	Modalidade do teste			teste (i = i gg			ra o teste (i =	
		Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.
	Arduino	byte	1,01104	1,010144	3,030816	3,030816	3,030816	10,10344
	10	int	2,02072	1,010144	5,051744	6,062064	6,061856	14,145776
	tentativas	float	174,197168	N/A	83,85832	104,06512	N/A	92,951392
			The state of the s					
	Desktop 10 vezes	shar	4,142	4,142	5,358	7,106	3,572	6,536
	10 vezes com	int	0,76	1,216	1,216	2,964	1,786	2,394
	1x10^7	*int	3,23	3,268	4,142	7,258	3,458	5,168
	instruções	float	6,992	N/A	7,0034	6,9958	N/A	6,9996

Use para	o teste (i	=igp3)	Use para o teste (i = i op j)				
Soma	Qr	Mult.	Soma	Qr	Mult.		
2526123	2526067	2652359	2652359	2652359	309439		
2841813	2778652	3031252	3094397	3094384	359962		
14108013	N/A	8461835	9724760	N/A	903015		
		157	S		17		
17,1	17,1	20,3	18,7	15,6	23,4		
6,6	7,8	7,8	7,8	9,3	10,9		
18,4	18,5	20,8	19,1	19	23,5		
25,4	N/A	25,43	25,41	N/A	25,42		

Parte 3 – Print Código em C - máquina 3



Parte 3 – Print Passmark - máquina 3





Parte 3 – Configuração do PC

AMD Ryzen 5 5600X - 6 cores / 12 threads @4.6 Ghz

32 GB RAM @ 3200 Mhz

Windows 11 x64

GCC E GCC-libs versão 11.1.0

Parte 3 – Configuração do PC 2

Intel® Core® i5 9400F - 6 cores / 6 threads @2.9 Ghz

16 GB RAM @ 2666 Mhz

Windows 11 Education x64

GCC E GCC-libs versão 14.2.1 CodeBlocks MinGW

Parte 3 – Configuração do PC 3

AMD Ryzen 3 3300X - 4 cores / 8 threads @3.8 Ghz

12 GB RAM @ 2666 Mhz

Windows 11 Education x64

GCC E GCC-libs versão 14.2.1 CodeBlocks MinGW

4 A – Speed Up entre as máquinas

Dit CPI Médio Speed Up										
Gabriel 1,7226667 2,962848297										
Seed Up										
Float CPI Médio Speed UR Paulo 150,336 1										
Paulo 150,336 1										
Paulo 150,336 1										
Welbert 14,789 10,1653932 Gabriel 6,9977 21,48363034 Paulo Passmark Int Speed Up Paulo Paulo Paulo Paulo 32036 1 Gabriel 0,0045333 3,882352941 Welbert 69505 2,16959 Welbert 0,0029667 5,93258427 Paulo Paulo Speed Up Paulo 0,5184 Paulo Paulo 19397 1 Welbert 0,03215 16,1244168 Welbert 39196 2,020725 Gabriel 0,018415 28,15096389 Welbert 39196 2,020725 Baseado no CPI Médio do Ipt CPUtime = 10x 10^6 *CPI * 1 /f x 10^6 Nome Quantidade 1x10^6 CPI 1 Frequencia 1x10^6 H> CPI Paulo 10 1000000 5,104 1 2900 1000000 0,00 Gabriel 10 1000000 1,722667 1 3800 1000000										
CPU TIME Speed Up Paulo Speed Up Speed										
Passmark										
Dat										
Paulo 0,0176 1 Gabriel 32036 1 Gabriel 0,0045333 3,882352941 Welbert 69505 2,16959 Welbert 0,0029667 5,93258427 Passmark Float Speed Up Float CPU TIME Speed Up Paulo Paulo Paulo Paulo 0,5184 1 Gabriel 19397 1 Welbert 0,03215 16,1244168 Welbert 39196 2,020725 Gabriel 0,018415 28,15096389 Baseado no CPI Médio do Ipt CPUtime = 10x 10^6 *CPI * 1 /fx 10^6 Nome Quantidade 1x10^6 CPI 1 Ereguencia 1x10^6 H> CPU Paulo 10 1000000 5,104 1 2900 1000000 0,00 Gabriel 10 1000000 1,722667 1 3800 1000000 0,00										
Speed Up Passmark Float Speed Up Paulo Paulo Paulo O,018415 28,15096389 Speed Up Paulo O,018415 28,15096389 Speed Up Paulo O,018415 28,15096389 Speed Up Paulo O,018415 O,01										
Passmark Float Speed Up Paulo Paulo										
Passmark Float Speed Up Paulo Paulo Paulo 19397 1										
Paulo Paul										
Paulo Paul										
Paulo 0,5184 1 Gabriel 19397 1										
Welbert 0,03215 16,1244168 Welbert 39196 2,020725										
Baseado no CPI Médio do Int CPUtime = 10x 10^6 *CPI * 1 /f x 10^6										
Baseado no CPI Médio do Int CPUtime = 10x 10^6 *CPI * 1 /f x 10^6										
CPUtine = 10x 10^6 *CPI * 1 /f x 10^6										
CPUtine = 10x 10^6 *CPI * 1 /f x 10^6										
Nome Quantidade 1x10^6 CPI 1 Frequencia 1x10^6 Hz CPU Paulo 10 1000000 5,104 1 2900 1000000 0,0 Gabriel 10 1000000 1,722667 1 3800 1000000 0,00										
Paulo 10 1000000 5,104 1 2900 1000000 0,0 Gabriel 10 1000000 1,722667 1 3800 1000000 0,00										
Gabriel 10 1000000 1,722667 1 3800 1000000 0,00	TIME									
	176									
Welbert 10 1000000 1.364667 1 4600 1000000 0.00	4533									
***************************************	2967									
Baseado no CPI Médio do Float										
CPUtime = 10x 10^6 *CPI * 1 /f x 10^6										
Nome Quantidade 1x10^6 CPI 1 Frequencia 1x10^6 H> CPU	TIME									
Paulo 10 1000000 150,336 1 2900 1000000 0,5	184									
Welbert 10 1000000 14,789 1 4600 1000000 0,0	3215									
Gabriel 10 1000000 6,9977 1 3800 1000000 0,01	8415									

	Modalida	ade do teste	Use par	a o teste (i :	igg3)	Use par	o teste (i =	igpj)	
	Tem	ipo base	Soma	Qr	Mult.	Soma	Qr	Mult.	
Welbert	Int	2,6	0,4	3,6	1,4	0,5	5,5	3,8	
Gabriel	Jot	4,6	2	3,2	3,2	3,2	4,7	6,3	
Paulo	int	17,2	0,1	0,4	-0,9	-4,2	-4,3	0,8	
			Modalidade do teste			Use para o teste			
					(i=i	op 3)	(i=iggj)).	
			Tempo	base	Soma	Mult.	Soma	Mult.	
		Welbert	Float	3,2	24,6	22,8	41,4	39,8	

18,4

18,43

Gabriel

Float

	T	empo Apur	ado (ms)		
Use para	o teste (i =	igg3)	Use para	o teste (i	=igpj)
Soma	Qr	Mult.	Soma	Qr	Mult.
3	6,2	4	3,1	8,1	6,4
6,6	7,8	7,8	7,8	9,3	10,9
17,3	17,6	16,3	13	12,9	18

Use para o teste								
(i=ig	QQ 3)	(i=iggj)					
Soma	Mult.	Soma	Mult.					
27,8	26	44,6	43					
22,4	916,1	23	1180,1					
25,4	25,43	25,41	25,42					

1163.1

18,42

18,41

Parte 4 B – Outro Sistema Operacional

Nome	Frequencia em Mhz	Processador	Nucleos	Jbreads	Quant de op 1x10^6	Sistema Operacional
Gabriel	3800	AMD Ryzen 3 3300X	4	8	10	Wubuntu 11.4.2
Welbert	4600	AMD Ryzen 5 5600X	6	12	10	Wubuntu 11.4.2
Paulo	2900	Intel Core i5 9400F	6	6	10	Wubuntu 11.4.2

Windo	WS	Linu	JX	Speed Up				
Int	Float	Lot	Float	Int	Float			
8,366666667	25,415	14,5666667	27,525	0,574371	0,923342416			
5,133333333	35,35	19,85	25,725	0,258606	1,37414966			
15,85	535,4	15,1166667	22,4	1,048512	23,90178571			

Maiores detalhes ao final do arquivo

Outro Compilador

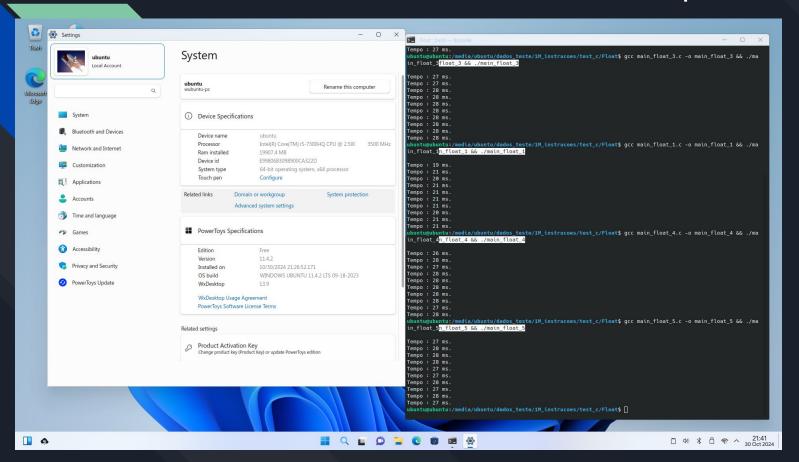
	Instruçõ	es com Inteiros						
Gabriel	GCC GNU Compiler/CodeBlocks	Online GDB Compiler	Speed Up					
Tempo	8,3666666666667	11,816666666667	0,7080394922426					
Paulo	GCC GNU Compiler/VS Code		Speed Up					
Tempo	15,85	19,85	0,79848866498741					
Welbert	GCC GNU Compiler/CodeBlocks	Online GDB Compiler Speed						
Tempo	5,1333333333333	21,966666666667	0,23368740515933					

Maiores detalhes ao final do arquivo

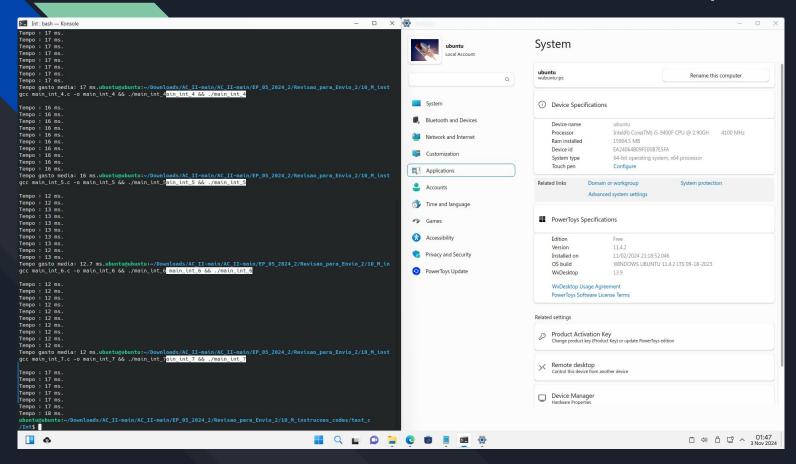
Adendo A – Tabela Outro Sistema Operacional

												purado (ms)				
		de do teste	Use para o teste (Use para o teste (para o teste (ra o teste (i			
	Tipo	Tempo base	Soma	Qr	Mult.	Soma	Qr.	Mult.	Som	a Qr	Mult.	Soma	Qr	Mult.		
	-	10.C	10.0	10.2	107	Gabrie				1 00	7.0	10.5	10	25.2		
	int	18,6 19.4	-10,2 8	10,3	-10,7	-0,100000000000001	0,4	6,7	8,4 27.4	8,3	7,9	18,5 27,8	19	25,3 27,5		
Darlina 10	float	19,4		N/A	8	8,4	N/A	8,1	21,4	N/A	27,4	21,8	N/A	21,5		
Desktop 10 vezes com	-	45.5				Welbe				1			15.0	24.2		
1x10^7	int	15,7	4,5	4,3	3,3	7,1	0,2	5,5	20,2	20	19	22,8	15,9	21,2		
instruções	float	20,9	6,1	N/A	6,9	-0,29999999999997	N/A	6,6	27	N/A	27,8	20,6	N/A	27,5		
						Paulo			-							
	int	13,9	2,1	3,1	3,1	2,1	-1,2	-1,9	16	17	17	16	12,7	12		
	float	16,1	5,9	N/A	6,9	6,4	N/A	6	22	N/A	23	22,5	N/A	22,1		
									-							
					MIPS							VURS				
	Modalidad	de do teste	Use para o teste (0.0		Use para o teste (0.0.					purado (ms)		S S		
		Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.	Som	a Or	Mult.	Soma	Qr	Mult.		
		5 10		.00	g 30		Gabriel	100	34	87	100	54		20		
100		int	-980,392156862745		-934,579	-99999,999999986	25000	1492,537	-0,010	2 0,0103	-0,0107	-0,0001	0,0004	0,0067		
1.0					MELOPS							ELOPS .				
		float	1250	N/A	1250	1190,47619047619	N/A	1234,568	0,00	N/A	0,008	0,0084	N/A	0,0081		
	Desktop						Welbert									
	10 vezes com				MIPS							<u>aups</u>				
	1x10^7	int	2222,222222222		3030,303	1408,45070422535	50000	1818,182	0,004	5 0,0043	0,0033	0,0071	0,0002	0,0055		
	instruções				MFLOPS					200		FLOPS				
		float	1639,34426229508	N/A	1449,275	-33333,333333333	N/A	1515,152	0,006	1 N/A	0,0069	-0,0003	N/A	0,0066		
							Paulo			200						
		int	4761,90476190476	3225,806	3225,806	4761,90476190476	-8333,33	-5263,16	0,002	1 0,0031	0,0031	0,0021	-0,0012	-0,0019		
					MELOPS						M	ELOPS				
		float	1694,91525423729	N/A	1449,275	1562,5	N/A	1666,667	0,005	9 N/A	0,0069	0,0064	N/A	0,006		
		J. T. J.						10.		10.						
												CPI				
				CPI							Tempo A	purado (ms)				
	Modalidad	de do teste	Use para o teste (i=igp3)		Use para o teste (i = i gg j)				para o teste (i=igp3)	Use pa	=igpj)			
		Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.	Som	a Or	Mult.	Soma	Qr	Mult.		
							Gabriel									
		int	-3,876	3,914	-4,066	-0,0380000000000006	0,152	2,546	-0,010	2 0,0103	-0,0107	-0,0001	0,0004	0,0067		
	Desktop	float	3,04	N/A	3,04	3,192	N/A	3,078	0,00	N/A	0,008	0,0084	N/A	0,0081		
	10 vezes		20				Welbert	<u> </u>	- N		•		A SA			
	com 1x10^7	int	2,07	1,978	1,518	3,266	0,092	2,53	0,004	5 0,0043	0,0033	0,0071	0,0002	0,0055		
	instruções	float	2,806	N/A	3,174	-0,13799999999999	N/A	3,036	0,006	1 N/A	0,0069	-0,0003	N/A	0,0066		
	1 1 1 1 2 2 /	5000	35.4			*	Paulo		-				-			
	1	int	0,609	0,899	0,899	0,609	-0,348	-0,551	0,002	1 0,0031	0,0031	0,0021	-0,0012	-0,0019		
		float	1.711	N/A	2.001	1.856	N/A	1,74	0.005		0.0069	0.0064	N/A	0.006		
		3000	-,	,	2,002	2,020	,	-,-	5,502		0,000	5,5554	,	5,000		
		9		199					4				No.	fit in the second		

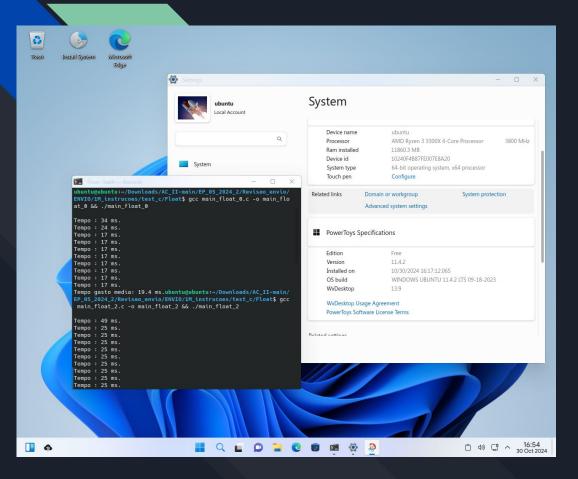
Adendo Outro Sistema Print - Máquina 1



Adendo Outro Sistema Print - Máquina 2



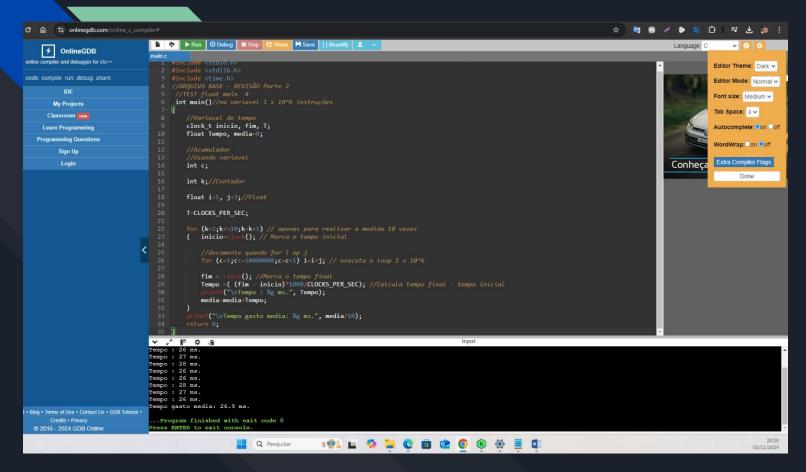
Adendo Outro Sistema Print - Máquina 3



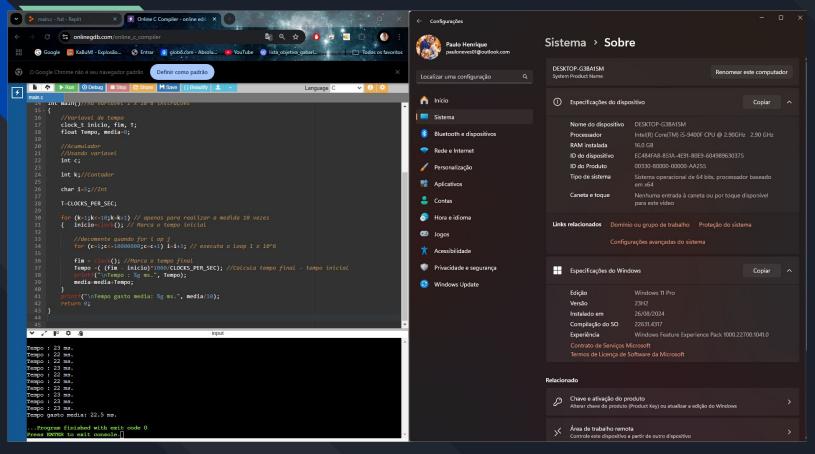
Adendo A – Tabela Outro Sistema Operacional

												purado (ms)		
		lidade do teste Use para o teste (i = i gg 3)			Use para o teste (i = i gp j)			a o teste (i	- NO -		ra o teste (i			
	Tipo	Tempo base	Soma	Qr	Mult.	Soma	Qr	Mult.	Soma	Qr	Mult.	Soma	Qr	Mult.
						Gabrie								
	int	18,6	-10,2	10,3	-10,7	-0,1000000000000001	0,4	6,7	8,4	8,3	7,9	18,5	19	25,3
	float	19,4	8	N/A	8	8,4	N/A	8,1	27,4	N/A	27,4	27,8	N/A	27,5
Desktop 10						Welbe	<u></u>		50				30	100
vezes com 1x10^7	int	15,7	4,5	4,3	3,3	7,1	0,2	5,5	20,2	20	19	22,8	15,9	21,2
instruções	float	20,9	6,1	N/A	6,9	-0,2999999999997	N/A	6,6	27	N/A	27,8	20,6	N/A	27,5
		0 00				Paulo							34	- C
	int	13,9	2,1	3,1	3,1	2,1	-1,2	-1,9	16	17	17	16	12,7	12
	float	16,1	5,9	N/A	6,9	6,4	N/A	6	22	N/A	23	22,5	N/A	22,1
			2000 471						100					
					MIPS						.N	UPS		
	Modalidad	de do teste	Use para o teste (i = i op 3)		Use para o teste (i=iopj)				Tempo A	purado (ms)		
		Tipo	Soma	Or	Mult.	Soma	Qr	Mult.	Soma	Or	Mult.	Soma	Or	Mult.
						100000000000000000000000000000000000000	Gabriel							
	1	int	-980,392156862745	970,8738	-934,579	-99999,999999986		1492,537	-0,0102	0,0103	-0,0107	-0,0001	0,0004	0,0067
					MFLOPS					Luisean	MF	LOPS		
		float	1250	N/A	1250	1190.47619047619	N/A	1234,568	0.008	N/A	0.008	0.0084	N/A	0.0081
	Desktop	5000				-	Welbert		1					
	10 vezes			MIPS										
	com	int	2222 2222222222	2325 581	MIPS 3030,303	1408,45070422535	50000	1818,182	0.0045	0.0043	0.0033	0.0071	0.0002	0.0055
	1x10^7 instruções	334			MFLOPS					-,	-,	LOPS	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,
	matrações	float	1639,34426229508		1449,275	-33333,3333333337	N/A	1515,152	0.0061	N/A	0,0069	-0,0003	N/A	0.0066
		3000	1000,0112022000	,	12113,213		Paulo	1313,132	0,0001	14/1	0,000	0,0000	1,	0,0000
1		int	4761.90476190476	3225 806	3225,806	4761.90476190476		-5263.16	0.0021	0.0031	0.0031	0.0021	-0.0012	-0.0019
		904	4701,30470130470	-	MFLOPS	4701,50470150470	0000,00	3203,10	0,0021	0,0031	-	LOPS	0,0012	0,0015
		float	1694,91525423729		1449,275	1562.5	N/A	1666,667	0.0059	N/A	0.0069	0,0064	N/A	0.006
		3000	1094,91323423729	N/A	1443,273	1302,3	IN/A	1000,007	0,0033	IN/A	0,0003	0,0004	18/75	0,000
								1					1	
-					-					-		CPI		
				CPI										
-	Madalida	de do teste	Use earn a trate (Hen many a toota /	Henre	a o teste (i		purado (ms) Use para o teste (i = i op j)				
-	iviodalidad		Use para o teste (Or	Mult.	Use para o teste (Mult.	Soma		J			= (gg)) Mult.
		Tipo	Soma	Qt .	IVIUIT.		Qr Cabaial	Wille.	Soma	Qr	Mult.	Soma	Qr	Mult.
	6	T	2.076	2.044	1 000		Gabriel	1 2 5 4 5 T	0.0400	0.0100	0.0107	0.0004	1 0 0004	0.0057
		int	-3,876	3,914	-4,066	-0,0380000000000006	0,152	2,546	-0,0102	0,0103	-0,0107	-0,0001	0,0004	0,0067
	Desktop 10 vezes	float	3,04	N/A	3,04	3,192	N/A	3,078	0,008	N/A	0,008	0,0084	N/A	0,0081
	com						Welbert		1				T	
	1x10^7	int	2,07	1,978	1,518	3,266	0,092	2,53	0,0045	0,0043	0,0033	0,0071	0,0002	0,0055
	instruções	float	2,806	N/A	3,174	-0,13799999999999	N/A	3,036	0,0061	N/A	0,0069	-0,0003	N/A	0,0066
				0.0			Paulo							
		int	0,609	0,899	0,899	0,609	-0,348	-0,551	0,0021	0,0031	0,0031	0,0021	-0,0012	-0,0019
		float	1,711	N/A	2,001	1,856	N/A	1,74	0,0059	N/A	0,0069	0,0064	N/A	0,006
				Į,										

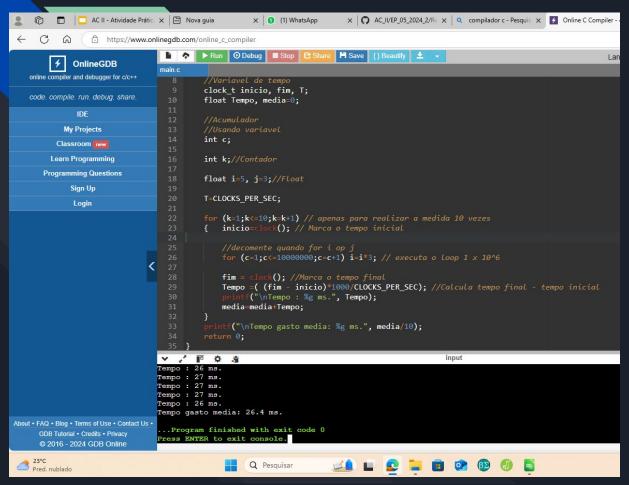
Adendo Outro Compilador Print - Máquina 1



Adendo Outro Compilador Print - Máquina 2



Adendo Outro Compilador Print - Máquina 3



Adendo A – Tabela Outro Compilador

												Tempo Ap	ourado (ms)			
	Modalida	de do teste	Use para o teste (i=igp3)		Use para o teste (i=igpj)			Use para	o teste (i	=igg3)	Use para o teste (i = i g		=igpj)	
	Tipo	Tempo base	Soma	Qr	Mult.	Soma	Qr	Mult.		Soma	Qr	Mult.	Soma	Qr	Mult.	
		Gabriel														
	int	7,7	0,7	-0,9	-0,2	2,9	7	13,4		8,4	8,6	7,5	10,6	14,7	21,1	
	float	7,4	30,6	N/A	19	19,7	N/A	30,1	_	38	N/A	26,4	27,1	N/A	37,5	
Desktop 10	Welbert															
vezes com 1x10^7	int	15,7	4,5	4,3	3,3	7,1	0,2	5,5	П	20,2	20	19	22,8	15,9	21,2	
instruções	float	20,1	8,4	N/A	9,6	6,8	N/A	9,1		28,5	N/A	29,7	26,9	N/A	29,2	
	Paulo															
	int	22,1	-1,7	-1,6	1,4	0,79999999999997	0,9	-0,6		20,4	20,5	23,5	22,9	23	21,5	
	float	23,8	2,8	N/A	4,2	3,4	N/A	2,4		26,6	N/A	28	27,2	N/A	26,2	
0				1 1	_				1	0 0				\$4 F	1	

				MIPS												
Modalidad	de do teste Use para o teste (i = i gg 3) Use para o teste (i = i gg j)								Tempo Apurado (ms)							
	Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.		Soma	Qr.	Mult.	Soma	Qr	Mult.		
	int	14285,7142857143	-11111,1	-50000	3448,27586206897	1428,571	746,2687		0,0007	-0,0009	-0,0002	0,0029	0,007	0,0134		
				MELOPS					MELOPS							
	float	326,797385620915	N/A	526,3158	507,61421319797	N/A	332,2259		0,0306	N/A	0,019	0,0197	N/A	0,0301		
Desktop		Welkert														
10 vezes				MIPS							M	IPS				
com 1x10^7	int	2222,2222222222	2325,581	3030,303	1408,45070422535	50000	1818,182		0,0045	0,0043	0,0033	0,0071	0,0002	0,0055		
instruções										ME	LOPS					
	float	1190,47619047619	N/A	1041,667	1470,58823529412	N/A	1098,901		0,0084	N/A	0,0096	0,0068	N/A	0,0091		
	int	-5882,35294117646	-6250	7142,857	12500	11111,11	-16666,7		-0,0017	-0,0016	0,0014	0,0008	0,0009	-0,0006		
						MFLOPS										
	float	3571,42857142857	N/A	2380,952	2941,17647058824	N/A	4166,667		0,0028	N/A	0,0042	0,0034	N/A	0,0024		
											C	PI				
			CPI						Tempo Apurado (ms)							
Modalidad	de do teste	Use para o teste (i = i gp 3)		Use para o teste (i=iopj)		1 1	Use para	Use para o teste (i = i gg 3) Use para o teste (i = i gg						
	Tipo	Soma	Qr	Mult.	Soma	Qr	Mult.		Soma	Qr	Mult.	Soma	Qr	Mult.		
			-			Gabriel								2		
	int	0,266	-0,342	-0,076	1,102	2,66	5,092		0,0007	-0,0009	-0,0002	0,0029	0,007	0,0134		
Desktop	float	11,628	N/A	7,22	7,486	N/A	11,438		0,0306	N/A	0,019	0,0197	N/A	0,0301		
10 vezes	-					Welbert										
1x10^7	int	2,07	1,978	1,518	3,266	0,092	2,53	- 1	0,0045	0,0043	0,0033	0,0071	0,0002	0,0055		
instruções	float	3,864	N/A	4,416	3,128	N/A	4,186		0,0084	N/A	0,0096	0,0068	N/A	0,0091		
						Paulo										
	int	-0,493000000000001	-0,464	0,406	0,23199999999999	0,261	-0,174		-0,0017	-0,0016	0,0014	0,0008	0,0009	-0,0006		
	float	0,812	N/A	1,218	0,986	N/A	0,696		0,0028	N/A	0,0042	0,0034	N/A	0,0024		
		2	19 19	10			2 1				0.0	10				