Arquitectura de Computadores Avançada

Comparative analysis of the execution time under different conditions (computer system 1)

Comp Config		Intel(R) Core(TM) i7-8565U CPU @ 1.80GHz												
		dhrystone												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	0,503	0,499	0,507	0,507	0,514	**0,506**	0,158	0,159	0,157	0,158	0,157	**0,158**	*3,2*
		whetstone												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	1,306	1,309	1,319	1,314	1,305	**1,311**	0,382	0,381	0,384	0,387	0,389	**0,385**	*3,4*
		primev1												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	1,974	1,995	2,002	2,085	1,989	**2,009**	1,611	1,610	1,653	1,611	1,608	**1,619**	*1,2*
		primev2												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	5,759	5,779	5,783	5,796	5,799	**5,783**	4,093	4,101	4,088	4,099	4,083	**4,093**	*1,4*
		crypt												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	0,563	0,558	0,574	0,576	0,577	**0,570**	0,293	0,286	0,274	0,287	0,291	**0,286**	*2,0*
		newCript												
Operating System	Gcc version	no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 5.8.11	10.2.1	2,307	2,324	2,275	2,301	2,329	**2,307**	1,724	1,732	1,755	1,794	1,706	**1,742**	*1,3*

Arquitectura de Computadores Avançada
Comparative analysis of the execution time under different conditions (computer system 2)

Comp Config		Intel(R) Core(TM) 4 x i5-6200U CPU @ 2.30GHz / 8GB											
		dhrystone											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 10	6.4.0	0,843	0,798	0,812	0,798	0,798	**0,810**	0,140	0,140	0,140	0,140	0,140	**0,140**	*5,8*
linux 4.12.9	6.4.1	0,821	0,817	0,826	0,824	0,822	**0,822**	0,252	0,249	0,259	0,252	0,252	**0,253**	*3,3*
linux 4.18.5	8.1.1	0,844	0,838	0,859	0,836	0,853	**0,846**	0,284	0,288	0,289	0,290	0,285	**0,287**	*2,9*
linux 4.18.8	8.1.1	0,920	1,047	0,992	0,926	0,931	**0,963**	0,274	0,264	0,264	0,265	0,264	**0,266**	*3,6*
linux 5.0.16	8.3.1	0,842	0,966	0,958	0,955	0,868	**0,918**	0,256	0,254	0,259	0,254	0,274	**0,259**	*3,5*
		whetstone											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 10	6.4.0	3,218	3,187	3,156	3,203	3,187	**3,190**	0,578	0,562	0,562	0,578	0,578	**0,572**	*5,6*
linux 4.12.9	6.4.1	2,359	2,346	2,348	2,339	2,337	**2,346**	0,902	0,918	0,902	0,900	0,898	**0,904**	*2,6*
linux 4.18.5	8.1.1	2,190	2,173	2,182	2,171	2,197	**2,183**	0,738	0,730	0,739	0,716	0,737	**0,732**	*3,0*
linux 4.18.8	8.1.1	2,217	2,225	2,253	2,217	2,222	**2,227**	0,730	0,772	0,774	0,766	0,768	**0,762**	*2,9*
linux 5.0.16	8.3.1	2,272	2,297	2,462	2,463	2,271	**2,353**	0,744	0,717	0,717	0,741	0,744	**0,733**	*3,2*

Arquitectura de Computadores Avançada
Comparative analysis of the execution time under different conditions (computer system 2)

Operating System	Gcc version	primev1												
		no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
windows 10	6.4.0	3,406	3,406	3,406	3,406	3,406	**3,406**	3,031	3,031	3,031	3,015	3,031	**3,028**	*1,1*
linux 4.12.9	6.4.1	3,253	3,287	3,291	3,283	3,260	**3,275**	2,929	2,941	2,932	2,930	2,928	**2,932**	*1,1*
linux 4.18.5	8.1.1	3,277	3,307	3,264	3,254	3,277	**3,276**	2,621	2,628	2,632	2,621	2,624	**2,625**	*1,2*
linux 4.18.8	8.1.1	3,899	3,343	3,914	3,352	3,334	**3,568**	2,681	2,679	2,954	2,678	2,922	**2,783**	*1,3*
linux 5.0.16	8.3.1	3,322	3,292	3,309	3,311	3,386	**3,324**	2,664	2,640	2,714	2,647	2,658	**2,665**	*1,2*

Operating System	Gcc version	primev2												
		no opt						opt						
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
windows 10	6.4.0	9,187	9,187	9,124	9,203	9,375	**9,215**	6,374	6,328	6,327	6,358	6,375	**6,352**	*1,5*
linux 4.12.9	6.4.1	8,098	8,153	8,093	8,089	8,124	**8,111**	5,488	5,488	5,484	5,489	5,488	**5,487**	*1,5*
linux 4.18.5	8.1.1	10,992	11,059	11,088	11,158	11,161	**11,092**	5,358	5,404	5,356	5,416	5,361	**5,379**	*2,1*
linux 4.18.8	8.1.1	11,636	11,694	11,571	12,113	11,980	**11,799**	5,696	5,593	5,660	5,623	5,611	**5,637**	*2,1*
linux 5.0.16	8.3.1	11,244	11,253	11,349	11,160	11,278	**11,257**	5,375	5,334	5,317	5,338	5,316	**5,336**	*2,1*

Arquitectura de Computadores Avançada

Comparative analysis of the execution time under different conditions (computer system 2)

Operating System	Gcc version	crypt											
		no opt						opt					
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 4.18.5	8.1.1	0,889	0,890	0,889	0,895	0,888	**0,890**	0,388	0,397	0,386	0,398	0,393	**0,392**	**2,3**
linux 4.18.8	8.1.1	1,100	0,975	0,998	0,918	0,928	**0,984**	0,433	0,415	0,427	0,442	0,421	**0,428**	**2,3**
linux 5.0.16	8.3.1	0,904	0,899	0,896	0,899	0,900	**0,900**	0,402	0,388	0,394	0,399	0,385	**0,394**	**2,3**
Operating System	Gcc version	newCrypt											
		no opt						opt					
		run 1	run 2	run 3	run 4	run 5	aver	run 1	run 2	run 3	run 4	run 5	aver	speed up
linux 4.18.5	8.1.1	8,817	7,950	7,611	5,247	5,443	**7,014**	17,560	5,577	11,660	4,518	11,700	**10,203**	**0,7**
linux 4.18.8	8.1.1	4,981	9,318	5,628	3,772	4,582	**5,656**	6,739	8,343	4,286	8,586	7,829	**7,157**	**0,8**
linux 5.0.16	8.3.1	7,962	9,647	6,329	5,124	7,178	**7,248**	5,924	8,515	6,032	8,514	8,312	**7,459**	**1,0**

Arquitectura de Computadores Avançada

Comparative analysis of the execution time under different conditions (computer system 3)

Intel(R) Core(TM) i5-4300M CPU @ 2.60GHz / 8 GB													
		dhrystone											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 7	5.4.0	0,826	0,812	0,826	0,873	0,842	**0,836**	0,140	0,140	0,152	0,140	0,140	**0,142**	*5,9*
linux 3.19.8	4.8.3	0,715	0,768	0,773	0,783	0,778	**0,763**	0,237	0,295	0,232	0,233	0,205	**0,240**	*3,2*
		primev1											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 7	5.4.0	4,773	4,773	4,711	4,617	4,617	**4,698**	3,759	4,009	4,009	3,822	3,806	**3,881**	*1,2*
linux 3.19.8	4.8.3	3,836	3,929	3,909	3,937	3,820	**3,886**	3,376	3,338	3,285	3,300	3,287	**3,317**	*1,2*
		primev2											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 7	5.4.0	11,528	11,466	11,465	11,450	11,449	**11,472**	8,127	8,127	8,127	8,174	8,174	**8,146**	*1,4*
linux 3.19.8	4.8.3	11,187	11,000	10,913	10,874	11,057	**11,006**	7,966	7,849	7,921	7,900	7,946	**7,916**	*1,4*
		crypt											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 7	5.4.0	1,004	1,045	1,025	0,999	1,084	**1,031**	0,378	0,372	0,375	0,374	0,380	**0,376**	*2,7*
linux 3.19.8	4.8.3	0,920	0,925	0,929	0,932	0,916	**0,924**	0,352	0,354	0,344	0,358	0,347	**0,351**	*2,6*
		newCript											
Operating System	**Gcc version**	**no opt**						**opt**					
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
windows 7	5.4.0	5,767	5,731	5,743	5,751	5,747	**5,748**	5,641	5,627	5,647	5,638	5,641	**5,639**	*1,0*
linux 3.19.8	4.8.3	5,993	6,035	5,285	5,282	5,253	**5,570**	6,021	5,206	6,082	5,974	5,939	**5,844**	*1,0*

Comp Config		Intel(R) Core(TM)2 Duo CPU T5800 @ 2.00GHz / 3GB												
		dhrystone												
Operating System	**Gcc version**	**no opt**						**opt**						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	1,737	1,733	1,722	1,734	1,728	**1,731**	0,369	0,356	0,305	0,304	0,343	**0,335**	*5,2*
		whetstone												
Operating System	**Gcc version**	**no opt**						**opt**						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	5,287	5,282	5,290	5,287	5,285	**5,286**	1,982	1,980	1,978	1,977	1,969	**1,977**	*2,7*
		primev1												
Operating System	**Gcc version**	no opt						opt						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	9,617	9,615	9,619	9,609	9,627	**9,617**	9,920	9,925	9,913	9,916	9,918	**9,918**	*1,0*
		primev2												
Operating System	**Gcc version**	no opt						opt						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	23,989	23,831	23,778	23,867	24,219	**23,937**	19,379	19,195	19,237	19,204	19,197	**19,242**	*1,2*
		crypt												
Operating System	**Gcc version**	no opt						opt						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	2,285	2,279	2,309	2,245	2,303	**2,284**	0,652	0,644	0,644	0,645	0,642	**0,645**	*3,5*
		newCript												
Operating System	**Gcc version**	no opt						opt						
		run 1	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*run 1*	*run 2*	*run 3*	*run 4*	*run 5*	*aver*	*speed up*
linux 3.19.8	4.8.3	14,220	14,550	12,840	13,770	14,480	**13,972**	18,740	19,090	18,730	20,320	18,820	**19,140**	*0,7*