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renaissance-tensorflow-epyc-1

AMD EPYC 7551 32-Core testing with a GIGABYTE MZ31-AR0-00 v01010101 (F10 BIOS) and ASPEED on Debian 11 via the Phoronix Test Suite.

Automated Executive Summary

AA had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (AA) was 1.057x the speed of the slowest (A). B was 0.946x the speed of AA and A was 1x the speed of B.

Test Systems:

A

AA

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B

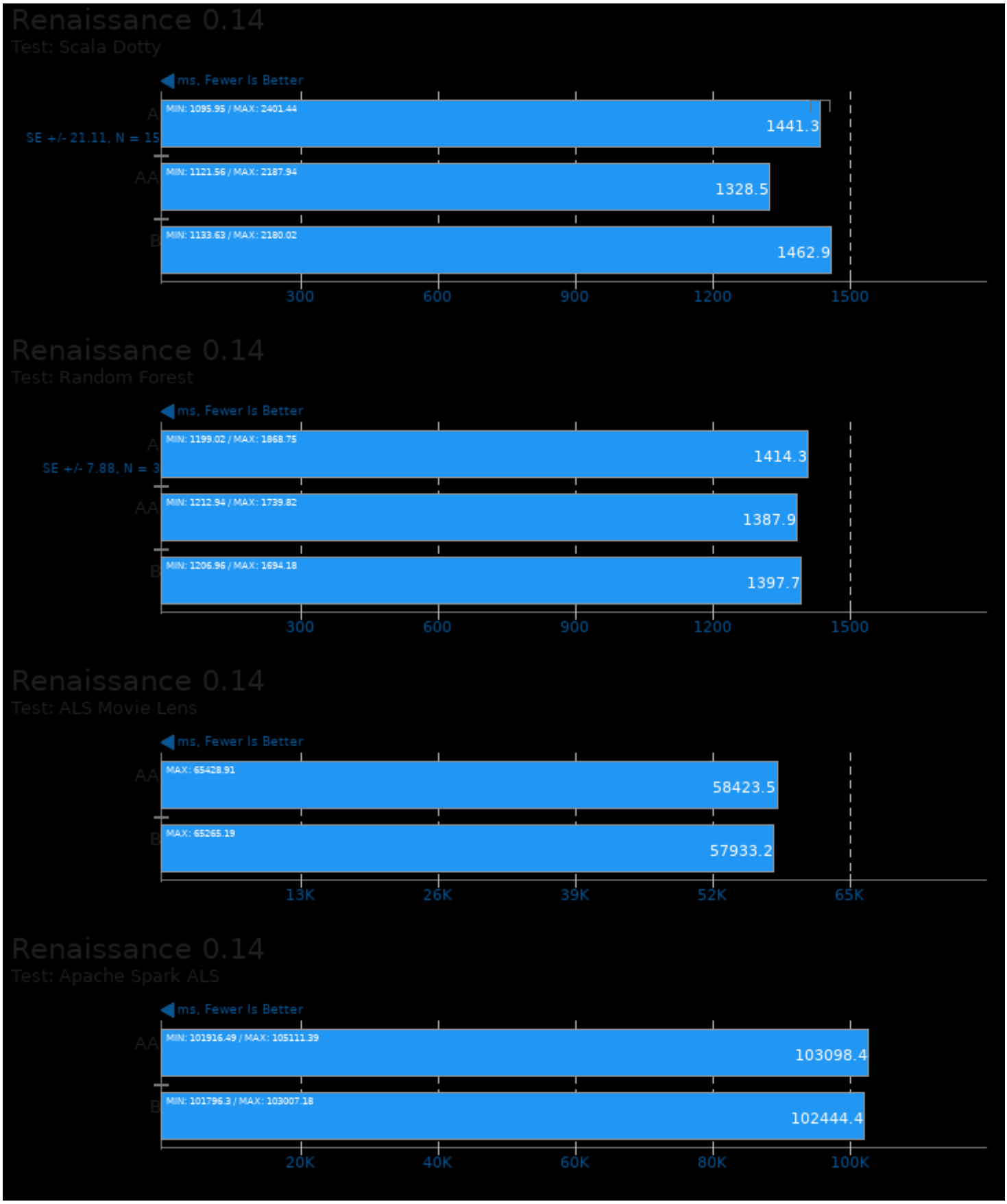
Processor: AMD EPYC 7551 32-Core @ 2.00GHz (32 Cores / 64 Threads), Motherboard: GIGABYTE MZ31-AR0-00 v01010101 (F10 BIOS), Chipset: AMD 17h, Memory: 8 x 4 GB DDR4-2667MT/s 9ASF51272PZ-2G6E1, Disk: Samsung SSD 960 EVO 500GB + 31GB SanDisk 3.2Gen1, Graphics: ASPEED, Network: Realtek RTL8111/8168/8411 + 2 x Broadcom NetXtreme II BCM57810 10

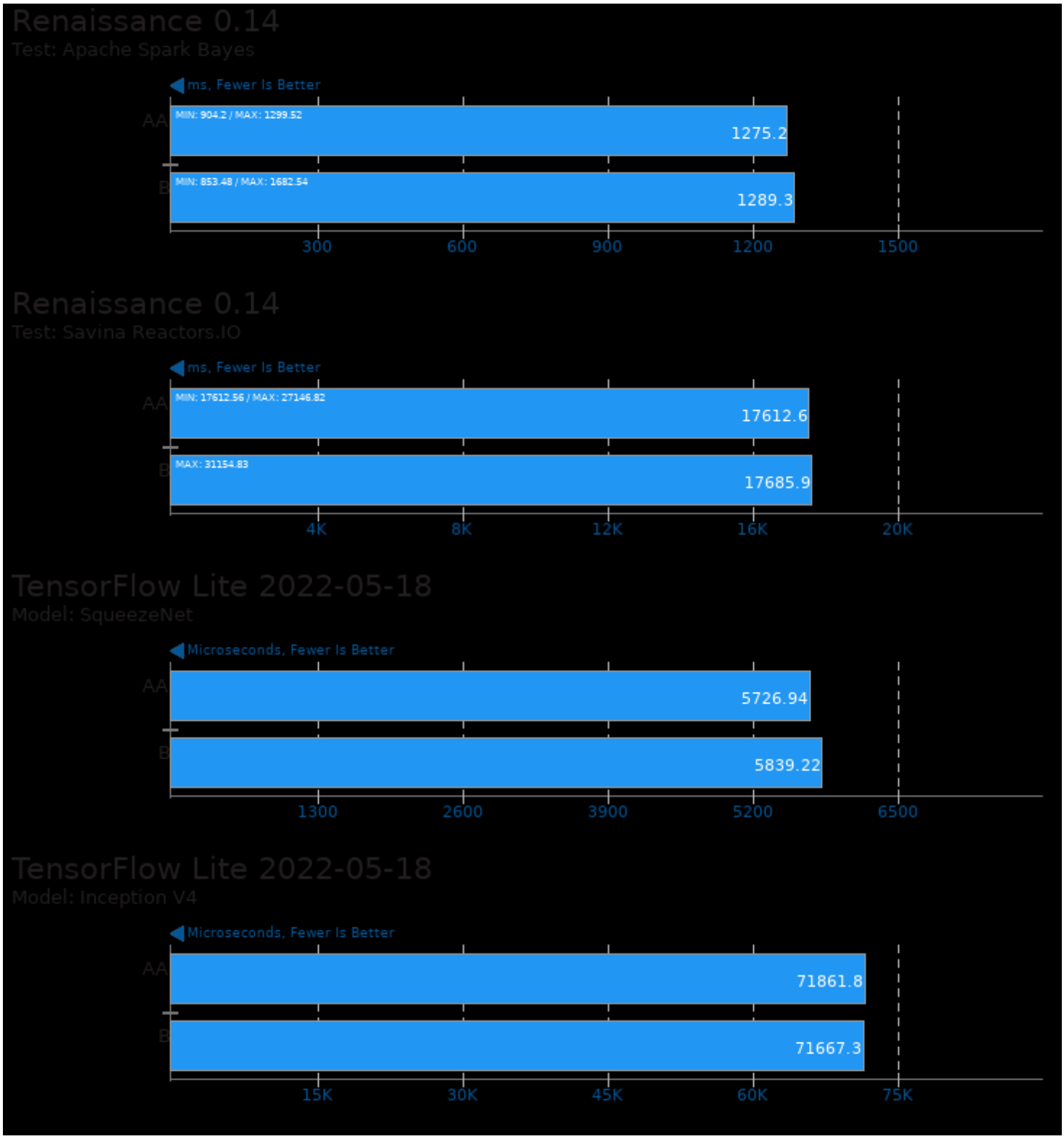
OS: Debian 11, Kernel: 5.10.0-9-amd64 (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768

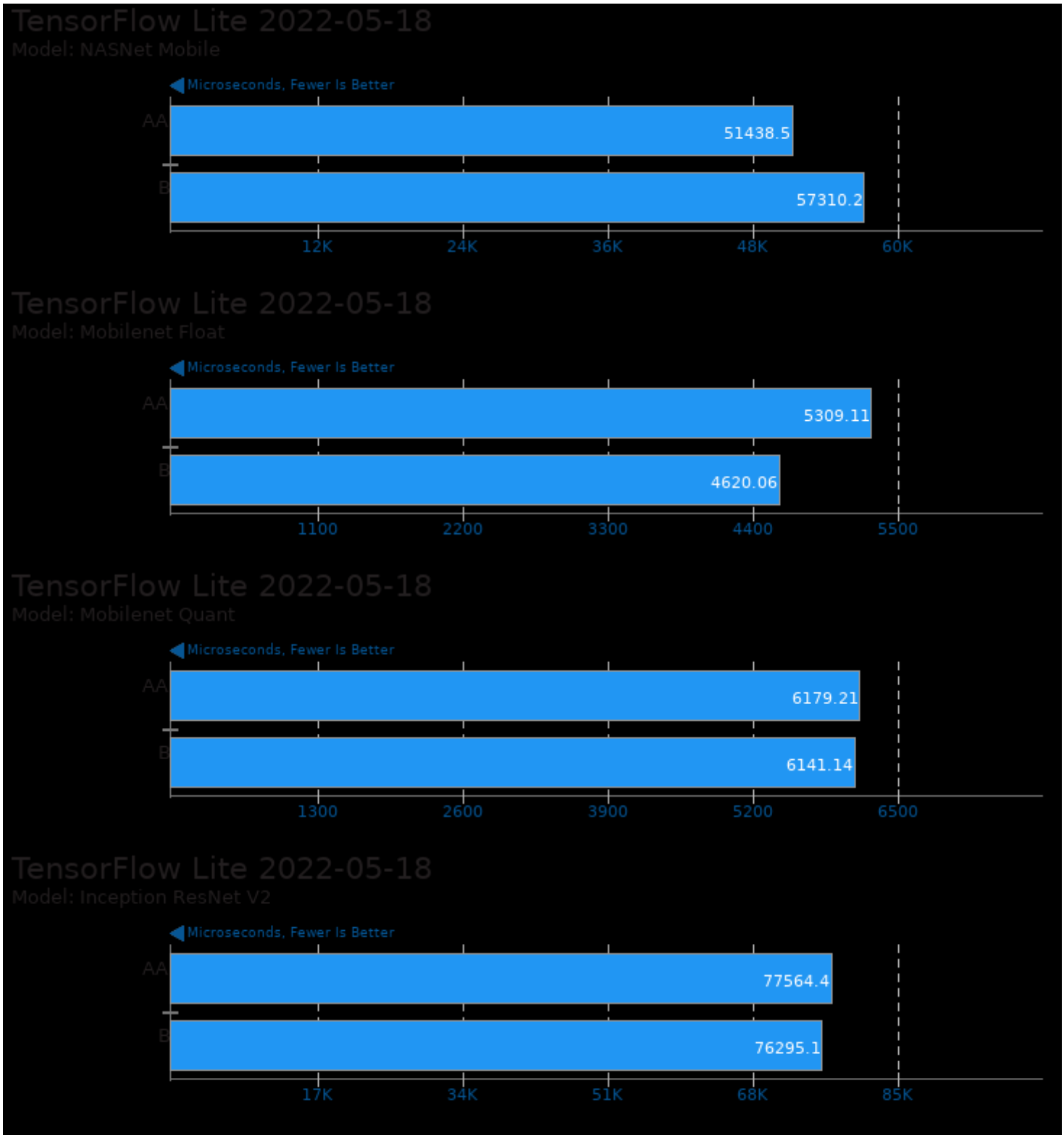
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8001227
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-post-Debian-2)
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	AA	B
Renaissance - Scala Dotty (ms)	1441	**1329**	**1463**
Normalized	92.17%	100%	90.81%
Standard Deviation	5.7%		
Renaissance - Rand Forest (ms)	**1414**	**1388**	1398
Normalized	98.13%	100%	99.3%
Standard Deviation	1%		
Renaissance - ALS Movie Lens (ms)		**58424**	**57933**
Normalized		99.16%	100%
Renaissance - Apache Spark ALS (ms)		**103098**	**102444**
Normalized		99.37%	100%
Renaissance - Apache Spark Bayes (ms)		**1275**	**1289**
Normalized		100%	98.91%
Renaissance - Savina Reactors.IO (ms)		**17613**	**17686**
Normalized		100%	99.59%
TensorFlow Lite - SqueezeNet (us)		**5727**	**5839**
Normalized		100%	98.08%
TensorFlow Lite - Inception V4 (us)		**71862**	**71667**
Normalized		99.73%	100%
TensorFlow Lite - NASNet Mobile (us)		**51439**	**57310**
Normalized		100%	89.75%
TensorFlow Lite - Mobilenet Float (us)		**5309**	**4620**
Normalized		87.02%	100%
TensorFlow Lite - Mobilenet Quant (us)		**6179**	**6141**
Normalized		99.38%	100%
TensorFlow Lite - I.R.V (us)		**77564**	**76295**
Normalized		98.36%	100%

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Renaissance 0.14
Test: Apache Spark Bayes
ms, Fewer Is Better
AA
MIN: 904.2 / MAX: 1299.52
1275.2
B
MIN: 853.48 / MAX: 1682.54
1289.3
300
600
900
1200
1500
Renaissance 0.14
Test: Savina Reactors.IO
ms, Fewer Is Better
AA
MIN: 17612.56 / MAX: 27146.82
17612.6
B
MAX: 31154.83
17685.9
4K
8K
12K
16K
20K
TensorFlow Lite 2022-05-18
Model: SqueezeNet
Microseconds, Fewer Is Better
AA
5726.94
B
5839.22
1300
2600
3900
5200
6500
TensorFlow Lite 2022-05-18
Model: Inception V4
Microseconds, Fewer Is Better
AA
71861.8
B
71667.3
15K
30K
45K
60K
75K



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:38.